



**PRODUCT CATALOG**







**nsi**  
INDUSTRIES

# YOUR

*Competitive*

# ADVANTAGE



## SERVICE LEADERS.

**You come first.** NSi's Inside Sales team works with our sales representatives to provide the best customer experience possible for you and your customers. You get products where they are needed, on time with a **99.7% same-day ship rate** from our Huntersville, NC Distribution Center and 14 stocking representatives serving all regions of the US.



## FLEXIBLE & RESPONSIVE.

Your **partnership** is a relationship we value. Our trained rep sales force continues to add value and support to our partnership. We listen to you and support you with **customized marketing** and **expert merchandising** that allow you to be profitable.



## DEMAND CREATION.

**Your focus** is to build demand, generate business and develop new markets. We share this same strategy in creating demand that brings customers through your door. With above-industry growth rates in the last ten years, the value provided to you exceeds expectations as you grow with us.



## ENGINEER & MANUFACTURE INNOVATION.

**You have options.** We have 16 major product groups and we are constantly developing and creating better products with you in mind. **Polaris™** Pre-Insulated Connectors, **Easy-Twist™** Wire Connectors, **TORK®** Time Switches, **TORK®** Photocontrols, **TORK®** Occupancy Sensors are just a few of our contractor preferred brands.



## COMPLETE PACKAGE.

You have access to a **breadth of line** of electrical products that help you grow profitably. We provide **you** with excellent service and support with best-in-class terms. NSi offers the complete package. When you access the **easiest supplier** to do business with, **you** gain a competitive edge.



## THE NSi ADVANTAGE.

From **contractor preferred products**, to **competitive pricing**, increased **profitability**, a **flexible, responsive** and award winning **customer service** team, you can experience the **NSi Advantage** by working more closely with NSi Industries. Let the **Easy Team** prove to you why our distributor partners trust us to deliver on these promises day in and day out.



## Video Icons Glossary



Overview of the product and its applied uses.



How to use the product.

**Product Categories** - Click on the product images below to go to your desired section.

Page 11



**Polaris™**

Page 37



**Connectors**

Page 119



**Connector Bloks™**

Page 127



**Easy-Twist™**

Page 137



**Miniterms,  
Switches &  
Indicator Lights**

Page 169



**Easy-Wrap™**

Page 177



**Wire Mgmt.**

Page 221



**Grounding**

Page 245



**Cable Ties**

Page 269



**Hardware,  
Tools & Testers**

Page 289



**Lighting**

Page 313



**Energy Code Guide**

Page 315



**TORK® Mechanical**

Page 337



**TORK® Digital**

Page 389



**TORK®  
Occupancy Sensors**

Page 405



**TORK®  
Photocontrols**

Page 425



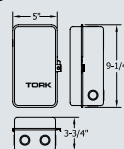
**TORKAlert™**

Page 439



**Pool & Spa**

Page 448



**Enclosures**



DOWNLOAD OUR APP  
& CONNECT WITH US







**POLARIS™**



# POLARIS GREY™

## Pre-Insulated, Multi-Port Connectors

For Fine Stranded Wire  
ITG, ITOG, IPLG, SITG Series



### SPECIFICATIONS

- UL Listed 486A Wire Connector (Dry location).
- **Temperature Rating/Voltage:** CU9.  
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Can be used with Class B, C, D, K, M, I of copper conductor, but is specifically designed for use with fine-stranded, flexible and extra-flexible copper conductors. This includes DLO cable and motor lead wire – excellent for use in motor connect/disconnect applications.
- **Torque Chart:** See page 34.
- **Installation Instructions:** See page 35 for extra illustrations and detailed information for assembly, mounting and installation.

### FEATURES

- **Safe:** Insulated with high dielectric strength plastisol for tough mechanical protection.
- Factory applied insulation provides consistent quality and protection.
- Abrasion and chemical resistant.
- **Fast:** Eliminates the need for cover and taping – supplied with removable access plugs over the hex screws to protect against contamination.
- **Easy:** Three sizes cover 14 to 3/0 AWG.
- **Reusable:** Ideal for cabletrays, troughs, wire-ways, raceways, ducts and motor junction boxes for fine stranded conductor applications .
- For copper wire only.
- For display bags with a mounting hole for hanging, add the suffix "-B" to the part number when ordering.

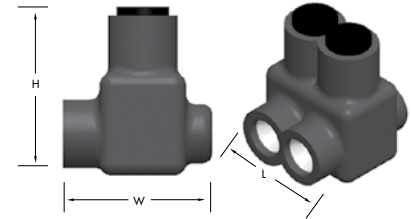


Figure varies by number of wire ports.

| CAT. NO.  | NO. OF PORTS | WIRE RANGE (BY CLASSIFICATION) |               | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|-----------|--------------|--------------------------------|---------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
|           |              | CLASS B, C, D                  | CLASS K, M, I |                  |                 |                  |                              |                       |                |
| ITG-6     | 2            | 6-14 AWG                       | 6-14 AWG      | 1.130            | 1.240           | 1.370            | 45                           | 1/8                   | 12             |
| ITOG-6    | 2            | 6-14 AWG                       | 6-14 AWG      | 1.130            | 1.270           | 1.370            | 45                           | 1/8                   | 12             |
| IPLG6-3   | 3            | 6-14 AWG                       | 6-14 AWG      | 1.550            | 1.240           | 1.370            | 45                           | 1/8                   | 12             |
| IPLG6-4   | 4            | 6-14 AWG                       | 6-14 AWG      | 1.980            | 1.240           | 1.370            | 45                           | 1/8                   | 6              |
| IPLG6-6   | 6            | 6-14 AWG                       | 6-14 AWG      | 2.820            | 1.240           | 1.370            | 45                           | 1/8                   | 6              |
| ITG-1     | 2            | 1-10 AWG                       | 2-10 AWG      | 1.600            | 1.550           | 1.750            | 150                          | 3/16                  | 6              |
| ITOG-1    | 2            | 1-10 AWG                       | 2-10 AWG      | 1.600            | 1.630           | 1.750            | 150                          | 3/16                  | 6              |
| IPLG1-3   | 3            | 1-10 AWG                       | 2-10 AWG      | 1.550            | 1.240           | 1.370            | 150                          | 3/16                  | 6              |
| IPLG1-4   | 4            | 1-10 AWG                       | 2-10 AWG      | 1.980            | 1.240           | 1.370            | 150                          | 3/16                  | 6              |
| IPLG1-6   | 6            | 1-10 AWG                       | 2-10 AWG      | 2.820            | 1.240           | 1.370            | 150                          | 3/16                  | 6              |
| ITG-3/0   | 2            | 3/0-4 AWG                      | 2/0-2 AWG     | 1.850            | 1.600           | 1.810            | 250                          | 3/16                  | 6              |
| ITOG-3/0  | 2            | 3/0-4 AWG                      | 2/0-2 AWG     | 1.850            | 1.630           | 1.810            | 250                          | 3/16                  | 6              |
| IPLG3/0-3 | 3            | 3/0-4 AWG                      | 2/0-2 AWG     | 2.250            | 1.600           | 1.750            | 250                          | 3/16                  | 6              |
| IPLG3/0-4 | 4            | 3/0-4 AWG                      | 2/0-2 AWG     | 2.900            | 1.600           | 1.750            | 250                          | 3/16                  | 6              |
| IPLG3/0-6 | 6            | 3/0-4 AWG                      | 2/0-2 AWG     | 4.200            | 1.600           | 1.750            | 250                          | 3/16                  | 4              |

| REPLACEMENT SLEEVES |                |
|---------------------|----------------|
| CAT. NO.            | STD. PKG. QTY. |
| SITG-6              | 10             |
| SITG-1              | 10             |
| SITG-3/0            | 10             |



# POLARIS™

## Pre-Insulated Connectors

### Dual Rated Two-Wire

#### IT, ITO, ITH Series



### SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.  
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.  
Not for fine-stranded, flexible wire (see Polaris Grey™ Series page 13).
- **Torque Chart:** See page 34.

### FEATURES

- Insu-Tap connectors, suitable for connecting two wires.
- For sizes 3/0AWG and smaller, available in two styles: wires being connected from the same side of the connector (Figure 1) or opposite sides of the connector (Figure 2).
- For sizes 250 MCM and larger, provided with open wire entry ports on both sides of the connector (Figure 3), which allows for access from either side. This style is supplied with removable access plugs to close the entry port not being utilized.
- Abrasion and chemical resistant.
- UV resistant.
- Will not support combustion.

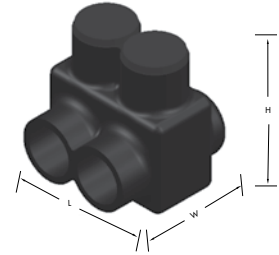


Figure varies by number of wire ports.

| CAT. NO.               | FIG. NO. | NO. OF PORTS | WIRE RANGE    | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|------------------------|----------|--------------|---------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| IT-4                   | 1        | 2            | 4-14 AWG      | 1.120            | 1.180           | 1.380            | 45                           | Slotted               | 12             |
| ITO-4                  | 2        | 2            | 4-14 AWG      | 1.120            | 1.250           | 1.380            | 45                           | Slotted               | 12             |
| IT-4A                  | 1        | 2            | 4-14 AWG      | 1.120            | 1.180           | 1.380            | 45                           | 1/8                   | 12             |
| IT-1/0                 | 1        | 2            | 1/0-14 AWG    | 1.620            | 1.620           | 1.750            | 180                          | 3/16                  | 6              |
| ITO-1/0                | 2        | 2            | 1/0-14 AWG    | 1.620            | 1.750           | 1.750            | 180                          | 3/16                  | 6              |
| IT-3/0                 | 1        | 2            | 3/0-6 AWG     | 1.840            | 1.750           | 1.870            | 250                          | 1/4                   | 6              |
| ITO-3/0                | 2        | 2            | 3/0-6 AWG     | 1.840            | 1.870           | 1.870            | 250                          | 1/4                   | 6              |
| IT-250                 | 3        | 2            | 250 MCM-6 AWG | 2.120            | 2.250           | 2.250            | 360                          | 5/16                  | 6              |
| IT-350                 | 3        | 2            | 350 MCM-6 AWG | 2.470            | 2.500           | 2.440            | 400                          | 5/16                  | 4              |
| IT-500                 | 3        | 2            | 500 MCM-4 AWG | 2.810            | 2.870           | 2.940            | 450                          | 5/16                  | 4              |
| IT-600                 | 3        | 2            | 600 MCM-6 AWG | 2.340            | 2.940           | 3.050            | 550                          | 5/16                  | 4              |
| IT-750 (Not UL Listed) | 3        | 2            | 750-250 MCM   | 3.480            | 3.500           | 3.500            | 550                          | 3/8                   | 2              |
| ITH-750                | 4        | 2            | 750-1/0 MCM   | 3.480            | 4.500           | 3.500            | 550                          | 5/16                  | 2              |

**POLARIS™**  
**Pre-Insulated Connectors**  
 Dual Rated Splicer/Reducers  
 ISR, ISRH Series



**SPECIFICATIONS**

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for use with extra-flexible cables (see Polaris Grey™ Series page 13).
- **Torque Chart:** See page 34.

**FEATURES**

- Suitable for connecting two wires in-line.
- Insulated with high dielectric strength plastisol and molded for precise fit.
- Supplied with removable access plugs over the hex screw.
- Abrasion and chemical resistant.
- UV resistant.
- Will not support combustion.

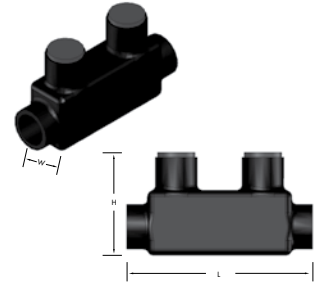


Figure varies by number of wire ports.

| CAT. NO. | FIG. NO. | NO. OF PORTS | WIRE RANGE      | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) |  | STD. CTN. QTY. |
|----------|----------|--------------|-----------------|------------------|-----------------|------------------|------------------------------|-----------------------|--|----------------|
| ISR-1/0  | 1        | 2            | 1/0-14 AWG      | 3.250            | 0.900           | 1.480            | 180                          | 3/16                  |  | 4              |
| ISR-250  | 1        | 2            | 250 MCM-6 AWG   | 4.000            | 1.190           | 1.900            | 360                          | 5/16                  |  | 4              |
| ISR-350  | 1        | 2            | 350 MCM-6 AWG   | 4.470            | 1.320           | 2.200            | 400                          | 5/16                  |  | 2              |
| ISR-500  | 1        | 2            | 500 MCM-4 AWG   | 4.620            | 1.620           | 3.000            | 450                          | 5/16                  |  | 2              |
| ISR-600  | 1        | 2            | 600 MCM-6 AWG   | 5.830            | 1.570           | 3.050            | 550                          | 5/16                  |  | 2              |
| ISRH-750 | 2        | 2            | 750 MCM-1/0 AWG | 7.250            | 1.750           | 3.250            | 550                          | 5/16                  |  | 2              |

# POLARIS™

## Pre-Insulated Connectors

### Multi-Conductor Connector, One Side Wire Entry IPL Series



#### SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.  
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.  
Not for fine-stranded, flexible wire.
- **Torque Chart:** See page 34.

#### FEATURES

- Wire entry ports on one side only.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Abrasion and chemical resistant.
- UV resistant.
- Will not support combustion.

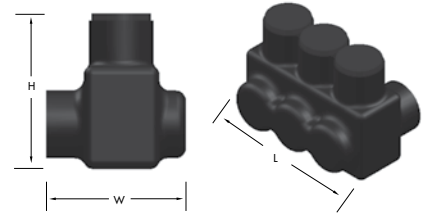


Figure varies by number of wire ports.

| CAT. NO.  | NO. OF PORTS | WIRE RANGE | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) |   | STD. CTN. QTY. |
|-----------|--------------|------------|------------------|-----------------|------------------|------------------------------|-----------------------|---|----------------|
| IPL4-3    | 3            | 4-14 AWG   | 1.550            | 1.188           | 1.375            | 45                           | Slotted               | ● | 12             |
| IPL4-3A   | 3            | 4-14 AWG   | 1.550            | 1.188           | 1.375            | 45                           | 1/8                   | ● | 12             |
| IPL4-4    | 4            | 4-14 AWG   | 1.970            | 1.188           | 1.375            | 45                           | Slotted               | ● | 6              |
| IPL4-4A   | 4            | 4-14 AWG   | 1.970            | 1.188           | 1.375            | 45                           | 1/8                   | ● | 6              |
| IPL4-5    | 5            | 4-14 AWG   | 2.390            | 1.188           | 1.375            | 45                           | Slotted               | ● | 6              |
| IPL4-6    | 6            | 4-14 AWG   | 2.810            | 1.188           | 1.375            | 45                           | Slotted               | ● | 6              |
| IPL4-8    | 8            | 4-14 AWG   | 3.660            | 1.188           | 1.375            | 45                           | Slotted               | ● | 4              |
| IPL4-8A   | 8            | 4-14 AWG   | 3.660            | 1.188           | 1.375            | 45                           | 1/8                   | ● | 4              |
| IPL4-10   | 10           | 4-14 AWG   | 4.500            | 1.188           | 1.375            | 45                           | Slotted               | ● | 4              |
| IPL4-12   | 12           | 4-14 AWG   | 5.100            | 1.188           | 1.375            | 45                           | Slotted               | ● | 2              |
| IPL4-14   | 14           | 4-14 AWG   | 6.180            | 1.188           | 1.375            | 180                          | Slotted               | ● | 2              |
| IPL1/0-3  | 3            | 1/0-14 AWG | 2.240            | 1.500           | 1.688            | 180                          | 3/16                  | ● | 6              |
| IPL1/0-4  | 4            | 1/0-14 AWG | 2.890            | 1.500           | 1.688            | 180                          | 3/16                  | ● | 6              |
| IPL1/0-5  | 5            | 1/0-14 AWG | 3.540            | 1.500           | 1.688            | 180                          | 3/16                  | ● | 6              |
| IPL1/0-6  | 6            | 1/0-14 AWG | 4.190            | 1.500           | 1.688            | 180                          | 3/16                  | ● | 4              |
| IPL1/0-8  | 8            | 1/0-14 AWG | 5.490            | 1.500           | 1.688            | 180                          | 3/16                  | ● | 4              |
| IPL1/0-10 | 10           | 1/0-14 AWG | 6.820            | 1.500           | 1.688            | 180                          | 3/16                  | ● | 3              |
| IPL1/0-12 | 12           | 1/0-14 AWG | 8.120            | 1.500           | 1.688            | 180                          | 3/16                  | ● | 2              |
| IPL1/0-14 | 14           | 1/0-14 AWG | 9.420            | 1.500           | 1.688            | 250                          | 3/16                  | ● | 2              |
| IPL3/0-3  | 3            | 3/0-6 AWG  | 2.630            | 1.600           | 1.800            | 250                          | 5/16                  | ● | 6              |
| IPL3/0-4  | 4            | 3/0-6 AWG  | 3.410            | 1.600           | 1.800            | 250                          | 5/16                  | ● | 4              |
| IPL3/0-5  | 5            | 3/0-6 AWG  | 4.190            | 1.600           | 1.800            | 250                          | 5/16                  | ● | 4              |
| IPL3/0-6  | 6            | 3/0-6 AWG  | 4.970            | 1.600           | 1.800            | 250                          | 5/16                  | ● | 3              |
| IPL3/0-8  | 8            | 3/0-6 AWG  | 6.530            | 1.600           | 1.800            | 250                          | 5/16                  | ● | 3              |



# POLARIS™ Pre-Insulated Connectors

## Multi-Conductor Connector, One Side Wire Entry IPL Series Cont'd



### SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.  
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.  
Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

### FEATURES

- Wire entry ports on one side only.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Abrasion and chemical resistant.
- UV resistant.
- Will not support combustion.

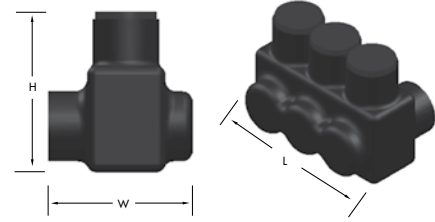


Figure varies by number of wire ports.

| CAT. NO.  | CERTIFICATION | NO. OF PORTS | WIRE RANGE    | COPPER CONDUCTOR MAX. AMPS | ALUMINUM CONDUCTOR MAX. AMPS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|-----------|---------------|--------------|---------------|----------------------------|------------------------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| IPL250-3  | cULus         | 3            | 250 MCM-6 AWG | —                          | —                            | 2.930            | 2.030           | 2.180            | 360                          | 5/16                  | 6              |
| IPL250-4* | cULus         | 4            | 250 MCM-6 AWG | 527A                       | 410 A                        | 3.800            | 2.030           | 2.180            | 360                          | 5/16                  | 4              |
| IPL250-5  | cULus         | 5            | 250 MCM-6 AWG | —                          | —                            | 4.660            | 2.030           | 2.180            | 360                          | 5/16                  | 4              |
| IPL250-6* | cULus         | 6            | 250 MCM-6 AWG | 790 A                      | 615 A                        | 5.220            | 2.030           | 2.180            | 360                          | 5/16                  | 3              |
| IPL250-8* | cULus         | 8            | 250 MCM-6 AWG | 1053 A                     | 820 A                        | 7.240            | 2.030           | 2.180            | 360                          | 5/16                  | 4              |
| IPL350-3  | cULus         | 3            | 350 MCM-6 AWG | —                          | —                            | 3.470            | 2.130           | 2.460            | 400                          | 5/16                  | 3              |
| IPL350-4* | cULus         | 4            | 350 MCM-6 AWG | 657 A                      | 514 A                        | 4.540            | 2.130           | 2.460            | 400                          | 5/16                  | 3              |
| IPL350-5  | cULus         | 5            | 350 MCM-6 AWG | —                          | —                            | 5.570            | 2.130           | 2.460            | 400                          | 5/16                  | 2              |
| IPL350-6* | cULus         | 6            | 350 MCM-6 AWG | 985 A                      | 770 A                        | 6.620            | 2.130           | 2.460            | 400                          | 5/16                  | 2              |
| IPL350-8* | cULus         | 8            | 350 MCM-6 AWG | 1314 A                     | 1028 A                       | 8.720            | 2.130           | 2.460            | 400                          | 5/16                  | 3              |
| IPL500-3  | cULus         | 3            | 500 MCM-4 AWG | —                          | —                            | 3.960            | 2.500           | 2.940            | 450                          | 5/16                  | 3              |
| IPL500-4* | cULus         | 4            | 500 MCM-4 AWG | 806 A                      | 631 A                        | 5.110            | 2.500           | 2.940            | 450                          | 5/16                  | 2              |
| IPL500-5  | cULus         | 5            | 500 MCM-4 AWG | —                          | —                            | 6.250            | 2.500           | 2.940            | 450                          | 5/16                  | 2              |
| IPL500-6* | cULus         | 6            | 500 MCM-4 AWG | 1209 A                     | 946 A                        | 7.400            | 2.500           | 2.940            | 450                          | 5/16                  | 2              |
| IPL500-7  | cULus         | 7            | 500 MCM-4 AWG | —                          | —                            | 8.590            | 2.500           | 2.940            | 450                          | 5/16                  | 2              |
| IPL500-8* | cULus         | 8            | 500 MCM-4 AWG | 1612 A                     | 1262 A                       | 9.690            | 2.500           | 2.940            | 450                          | 5/16                  | 3              |
| IPL600-3  | cULus         | 3            | 600 MCM-6 AWG | —                          | —                            | 4.470            | 2.710           | 3.020            | 550                          | 5/16                  | 2              |
| IPL600-4* | cULus         | 4            | 600 MCM-6 AWG | 1035 A                     | 810 A                        | 5.770            | 2.710           | 3.020            | 550                          | 5/16                  | 2              |
| IPL600-6* | cULus         | 6            | 600 MCM-6 AWG | 1554 A                     | 1215 A                       | 8.370            | 2.710           | 3.020            | 550                          | 5/16                  | 3              |
| IPL750-3  | —             | 3            | 750-250 MCM   | —                          | —                            | 4.950            | 3.090           | 3.490            | 550                          | 3/8                   | 2              |
| IPL750-4  | —             | 4            | 750-250 MCM   | —                          | —                            | 6.380            | 3.090           | 3.490            | 550                          | 3/8                   | 1              |
| IPL750-5  | —             | 5            | 750-250 MCM   | —                          | —                            | 7.800            | 3.090           | 3.490            | 550                          | 3/8                   | 1              |
| IPL750-6  | —             | 6            | 750-250 MCM   | —                          | —                            | 9.230            | 3.090           | 3.490            | 550                          | 3/8                   | 1              |



\*NSi Industries Polaris™ Connectors have created another "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for copper and aluminum parallel conductors. Polaris™ Parallel Rated Connectors provide safety and NEC compliance when installing parallel runs. Source Polaris™ Parallel Rated Connectors, the only UL Listed brand to offer a "Parallel Rating". Available in 2, 3 & 4 Parallels (4, 6 & 8 hole) in wire ranges of 250 MCM-6 AWG, 350 MCM-6 AWG, 500 MCM-4 AWG, 600 MCM-6 AWG and 750 MCM-250 MCM.

# POLARIS™ Pre-Insulated Connectors

## Multi-Conductor Connector Either Side Wire Entry IPLD Series



### SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.  
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.  
Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

### FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Supplied with removable plugs to close the entry port not being utilized.
- Abrasion and chemical resistant.
- UV resistant.
- Will not support combustion.

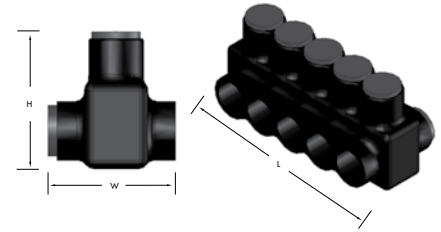
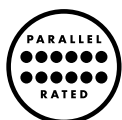


Figure varies by number of wire ports.

| CAT. NO.   | NO. OF PORTS | WIRE RANGE    | COPPER CONDUCTOR MAX. AMPS | ALUMINUM CONDUCTOR MAX. AMPS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|------------|--------------|---------------|----------------------------|------------------------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| IPLD3/0-3  | 3            | 3/0-6 AWG     | —                          | —                            | 2.630            | 1.830           | 1.790            | 250                          | 1/4                   | 6              |
| IPLD3/0-4  | 4            | 3/0-6 AWG     | —                          | —                            | 3.410            | 1.830           | 1.790            | 250                          | 1/4                   | 6              |
| IPLD3/0-5  | 5            | 3/0-6 AWG     | —                          | —                            | 4.190            | 1.830           | 1.790            | 250                          | 1/4                   | 4              |
| IPLD3/0-6  | 6            | 3/0-6 AWG     | —                          | —                            | 4.970            | 1.830           | 1.790            | 250                          | 1/4                   | 4              |
| IPLD3/0-7  | 7            | 3/0-6 AWG     | —                          | —                            | 5.750            | 1.830           | 1.790            | 250                          | 1/4                   | 3              |
| IPLD3/0-8  | 8            | 3/0-6 AWG     | —                          | —                            | 6.530            | 1.830           | 1.790            | 250                          | 1/4                   | 3              |
| IPLD3/0-10 | 10           | 3/0-6 AWG     | —                          | —                            | 8.090            | 1.830           | 1.790            | 250                          | 1/4                   | 2              |
| IPLD3/0-12 | 12           | 3/0-6 AWG     | —                          | —                            | 9.70             | 1.830           | 1.790            | 250                          | 1/4                   | 2              |
| IPLD250-3  | 3            | 250 MCM-6 AWG | —                          | —                            | 2.930            | 2.280           | 2.180            | 360                          | 5/16                  | 6              |
| IPLD250-4* | 4            | 250 MCM-6 AWG | 527 A                      | 410 A                        | 3.800            | 2.280           | 2.180            | 360                          | 5/16                  | 6              |
| IPLD250-5  | 5            | 250 MCM-6 AWG | —                          | —                            | 4.660            | 2.280           | 2.180            | 360                          | 5/16                  | 4              |
| IPLD250-6* | 6            | 250 MCM-6 AWG | 790 A                      | 615 A                        | 5.520            | 2.280           | 2.180            | 360                          | 5/16                  | 4              |
| IPLD250-7  | 7            | 250 MCM-6 AWG | —                          | —                            | 6.380            | 2.280           | 2.180            | 360                          | 5/16                  | 3              |
| IPLD250-8* | 8            | 250 MCM-6 AWG | 1053 A                     | 820 A                        | 7.240            | 2.280           | 2.180            | 360                          | 5/16                  | 3              |
| IPLD250-10 | 10           | 250 MCM-6 AWG | —                          | —                            | 8.970            | 2.280           | 2.180            | 360                          | 5/16                  | 2              |
| IPLD250-12 | 12           | 250 MCM-6 AWG | —                          | —                            | 10.740           | 2.280           | 2.180            | 360                          | 5/16                  | 2              |
| IPLD350-3  | 3            | 350 MCM-6 AWG | —                          | —                            | 3.520            | 2.410           | 2.610            | 400                          | 5/16                  | 3              |
| IPLD350-4* | 4            | 350 MCM-6 AWG | 657 A                      | 514 A                        | 4.570            | 2.410           | 2.610            | 400                          | 5/16                  | 3              |
| IPLD350-5  | 5            | 350 MCM-6 AWG | —                          | —                            | 5.620            | 2.410           | 2.610            | 400                          | 5/16                  | 3              |
| IPLD350-6* | 6            | 350 MCM-6 AWG | 985 A                      | 770 A                        | 6.670            | 2.410           | 2.610            | 400                          | 5/16                  | 3              |
| IPLD350-7  | 7            | 350 MCM-6 AWG | —                          | —                            | 7.720            | 2.410           | 2.610            | 400                          | 5/16                  | 2              |
| IPLD350-8* | 8            | 350 MCM-6 AWG | 1314 A                     | 1028 A                       | 8.770            | 2.410           | 2.610            | 400                          | 5/16                  | 2              |
| IPLD350-9  | 9            | 350 MCM-6 AWG | —                          | —                            | 9.820            | 2.410           | 2.610            | 400                          | 5/16                  | 2              |
| IPLD350-10 | 10           | 350 MCM-6 AWG | —                          | —                            | 10.870           | 2.410           | 2.610            | 400                          | 5/16                  | 2              |
| IPLD350-12 | 12           | 350 MCM-6 AWG | —                          | —                            | 12.970           | 2.410           | 2.610            | 400                          | 5/16                  | 1              |



\*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.



**SPECIFICATIONS**

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.  
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

**FEATURES**

- Wire entry ports on both sides of the connector allow for access from either side.
- Eliminates the need for cover and taping.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Supplied with removable plugs to close the entry port not being utilized.
- Abrasion, chemical and UV resistant.
- Will not support combustion.

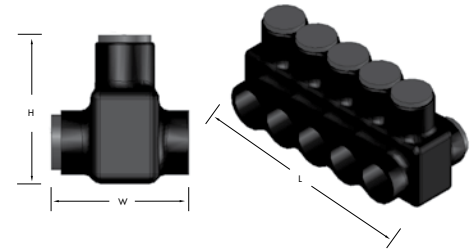
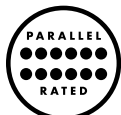


Figure varies by number of wire ports.

| CAT. NO.   | CERTIFICATION | NO. OF PORTS | WIRE RANGE    | COPPER CONDUCTOR MAX. AMPS | ALUMINUM CONDUCTOR MAX. AMPS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|------------|---------------|--------------|---------------|----------------------------|------------------------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| IPLD500-3  | cULus         | 3            | 500 MCM-4 AWG | —                          | —                            | 4.010            | 2.830           | 2.910            | 450                          | 5/16                  | 3              |
| IPLD500-4* | cULus         | 4            | 500 MCM-4 AWG | 806A                       | 631 A                        | 5.240            | 2.830           | 2.910            | 450                          | 5/16                  | 3              |
| IPLD500-5  | cULus         | 5            | 500 MCM-4 AWG | —                          | —                            | 6.380            | 2.830           | 2.910            | 450                          | 5/16                  | 2              |
| IPLD500-6* | cULus         | 6            | 500 MCM-4 AWG | 1209 A                     | 946 A                        | 7.520            | 2.830           | 2.910            | 450                          | 5/16                  | 2              |
| IPLD500-7  | cULus         | 7            | 500 MCM-4 AWG | —                          | —                            | 8.670            | 2.830           | 2.910            | 450                          | 5/16                  | 2              |
| IPLD500-8* | cULus         | 8            | 500 MCM-4 AWG | 1612 A                     | 1262 A                       | 9.820            | 2.830           | 2.910            | 450                          | 5/16                  | 2              |
| IPLD500-9  | cULus         | 9            | 500 MCM-4 AWG | —                          | —                            | 10.880           | 2.830           | 2.910            | 450                          | 5/16                  | 2              |
| IPLD500-10 | cULus         | 10           | 500 MCM-4 AWG | —                          | —                            | 12.110           | 2.830           | 2.910            | 450                          | 5/16                  | 1              |
| IPLD500-12 | cULus         | 12           | 500 MCM-4 AWG | —                          | —                            | 14.400           | 2.830           | 2.910            | 450                          | 5/16                  | 1              |
| IPLD600-3  | cULus         | 3            | 600 MCM-6 AWG | —                          | —                            | 4.550            | 2.960           | 3.030            | 550                          | 5/16                  | 3              |
| IPLD600-4* | cULus         | 4            | 600 MCM-6 AWG | 1035 A                     | 810 A                        | 5.850            | 2.960           | 3.030            | 550                          | 5/16                  | 3              |
| IPLD600-5  | cULus         | 5            | 600 MCM-6 AWG | —                          | —                            | 7.150            | 2.960           | 3.030            | 550                          | 5/16                  | 2              |
| IPLD600-6* | cULus         | 6            | 600 MCM-6 AWG | 1554 A                     | 1215 A                       | 8.450            | 2.960           | 3.030            | 550                          | 5/16                  | 2              |
| IPLD600-7  | cULus         | 7            | 600 MCM-6 AWG | —                          | —                            | 9.750            | 2.960           | 3.030            | 550                          | 5/16                  | 2              |
| IPLD600-8* | cULus         | 8            | 600 MCM-6 AWG | 2070 A                     | 1620 A                       | 11.050           | 2.960           | 3.030            | 550                          | 5/16                  | 2              |
| IPLD600-9  | cULus         | 9            | 600 MCM-6 AWG | —                          | —                            | 12.390           | 2.960           | 3.030            | 550                          | 5/16                  | 1              |
| IPLD600-10 | cULus         | 10           | 600 MCM-6 AWG | —                          | —                            | 13.650           | 2.960           | 3.030            | 550                          | 5/16                  | 1              |
| IPLD600-12 | cULus         | 12           | 600 MCM-6 AWG | —                          | —                            | 16.250           | 2.960           | 3.030            | 550                          | 5/16                  | 1              |
| IPLD750-3  | —             | 3            | 750-250 MCM   | —                          | —                            | 4.950            | 3.410           | 3.420            | 550                          | 3/8                   | 3              |
| IPLD750-4  | —             | 4            | 750-250 MCM   | —                          | —                            | 6.380            | 3.410           | 3.420            | 550                          | 3/8                   | 2              |
| IPLD750-5  | —             | 5            | 750-250 MCM   | —                          | —                            | 7.800            | 3.410           | 3.420            | 550                          | 3/8                   | 1              |
| IPLD750-6  | —             | 6            | 750-250 MCM   | —                          | —                            | 9.230            | 3.410           | 3.420            | 550                          | 3/8                   | 1              |
| IPLD750-7  | —             | 7            | 750-250 MCM   | —                          | —                            | 10.650           | 3.410           | 3.420            | 550                          | 3/8                   | 1              |
| IPLD750-8  | —             | 8            | 750-250 MCM   | —                          | —                            | 12.080           | 3.410           | 3.420            | 550                          | 3/8                   | 1              |
| IPLD750-9  | —             | 9            | 750-250 MCM   | —                          | —                            | 13.690           | 3.410           | 3.420            | 550                          | 3/8                   | 1              |
| IPLD750-10 | —             | 10           | 750-250 MCM   | —                          | —                            | 14.930           | 3.410           | 3.420            | 550                          | 3/8                   | 1              |
| IPLD750-12 | —             | 12           | 750-250 MCM   | —                          | —                            | 17.780           | 3.410           | 3.420            | 550                          | 3/8                   | 1              |



\*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.



# POLARIS™ Pre-Insulated Connectors

## Heavy Duty Connector Either Side Wire Entry IPLDH Series



### SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.  
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.  
Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

### FEATURES

- Connector block has larger width than IPLD Series connector with two pressure screws provided for each cable to ensure the best secure connection possible.
- Designed, built and tested to handle even the most demanding applications from 250 MCM to 750 MCM.
- Insulated with high-dielectric strength plastisol molded for a precise fit.
- Supplied with removable access plugs to allow for cable entry from either side of the connector.
- Eliminates the need for cover and taping.
- Abrasion and chemical resistant and UV resistant.
- Will not support combustion.

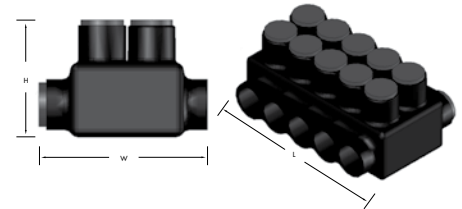
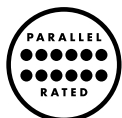


Figure varies by number of wire ports.

| CAT. NO.    | NO. OF PORTS | WIRE RANGE        | COPPER CONDUCTOR MAX. AMPS | ALUMINUM CONDUCTOR MAX. AMPS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|-------------|--------------|-------------------|----------------------------|------------------------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| IPLDH750-3  | 3            | 750 MCM - 1/0 AWG | —                          | —                            | 4.950            | 4.460           | 3.300            | 550                          | 5/16                  | 2              |
| IPLDH750-4* | 4            | 750 MCM - 1/0 AWG | 1178 A                     | 930 A                        | 6.380            | 4.460           | 3.300            | 550                          | 5/16                  | 2              |
| IPLDH750-5  | 5            | 750 MCM - 1/0 AWG | —                          | —                            | 7.800            | 4.460           | 3.300            | 550                          | 5/16                  | 1              |
| IPLDH750-6* | 6            | 750 MCM - 1/0 AWG | 1767 A                     | 1395 A                       | 9.230            | 4.460           | 3.300            | 550                          | 5/16                  | 1              |
| IPLDH750-8* | 8            | 750 MCM - 1/0 AWG | 2356 A                     | 1860 A                       | 12.080           | 4.460           | 3.300            | 550                          | 5/16                  | 1              |
| IPLDH750-10 | 10           | 750 MCM - 1/0 AWG | —                          | —                            | 14.600           | 4.460           | 3.300            | 550                          | 5/16                  | 1              |



\*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.

# POLARIS™ Pre-Insulated Connectors

## Multi-Cable Stacked Either Side Wire Entry IPLDS Series



### SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.  
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.  
Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

### FEATURES

- Exceptional for use with large wire sizes, especially in tight-fitting spaces, small wire ways and panels.
- The wire holes on the bottom row allow for entry from either side of the connector for even greater versatility.
- Wire entry holes are stacked on top of each other for the ultimate in compact design.
- Supplied with removable plugs to close the entry port not being utilized.
- Abrasion, chemical and UV resistant.
- Will not support combustion.

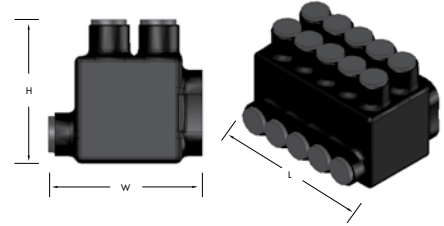
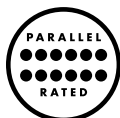


Figure varies by number of wire ports.

| CAT. NO.    | CERTIFICATION | NO. OF PORTS | WIRE RANGE    | COPPER CONDUCTOR MAX. AMPS | ALUMINUM CONDUCTOR MAX. AMPS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|-------------|---------------|--------------|---------------|----------------------------|------------------------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| IPLDS350-4* | cULus         | 4            | 350 MCM-6 AWG | 657 A                      | 514 A                        | 2.550            | 3.910           | 3.520            | 400                          | 5/16                  | 1              |
| IPLDS350-6* | cULus         | 6            | 350 MCM-6 AWG | 985 A                      | 770 A                        | 3.600            | 3.910           | 3.520            | 400                          | 5/16                  | 1              |
| IPLDS350-8* | cULus         | 8            | 350 MCM-6 AWG | 1314 A                     | 1028 A                       | 4.650            | 3.910           | 3.520            | 400                          | 5/16                  | 1              |
| IPLDS350-10 | cULus         | 10           | 350 MCM-6 AWG | —                          | —                            | 5.700            | 3.910           | 3.520            | 400                          | 5/16                  | 1              |
| IPLDS350-12 | cULus         | 12           | 350 MCM-6 AWG | —                          | —                            | 6.750            | 3.910           | 3.520            | 400                          | 5/16                  | 1              |
| IPLDS500-4* | cULus         | 4            | 500 MCM-4 AWG | 806 A                      | 631 A                        | 2.940            | 4.710           | 4.280            | 450                          | 5/16                  | 1              |
| IPLDS500-6* | cULus         | 6            | 500 MCM-4 AWG | 1209 A                     | 946 A                        | 4.080            | 4.710           | 4.280            | 450                          | 5/16                  | 1              |
| IPLDS500-8* | cULus         | 8            | 500 MCM-4 AWG | 1612 A                     | 1262 A                       | 5.230            | 4.710           | 4.280            | 450                          | 5/16                  | 1              |
| IPLDS500-10 | cULus         | 10           | 500 MCM-4 AWG | —                          | —                            | 6.380            | 4.710           | 4.280            | 450                          | 5/16                  | 1              |
| IPLDS500-12 | cULus         | 12           | 500 MCM-4 AWG | —                          | —                            | 7.520            | 4.710           | 4.280            | 450                          | 5/16                  | 1              |
| IPLDS750-6  | —             | 6            | 750-250 MCM   | —                          | —                            | 4.950            | 4.970           | 4.920            | 550                          | 3/8                   | 1              |
| IPLDS750-8  | —             | 8            | 750-250 MCM   | —                          | —                            | 6.380            | 4.970           | 4.920            | 550                          | 3/8                   | 1              |
| IPLDS750-10 | —             | 10           | 750-250 MCM   | —                          | —                            | 7.800            | 4.970           | 4.920            | 550                          | 3/8                   | 1              |
| IPLDS750-12 | —             | 12           | 750-250 MCM   | —                          | —                            | 9.230            | 4.970           | 4.920            | 550                          | 3/8                   | 1              |



\*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.

# POLARIS™

## Pre-Insulated Connectors

Multi-Connector Blocks With Mounting Holes, One Side Wire Entry  
IPLM Series



### SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.
- **Mounting:** Mounting holes will accept a 3/16" bolt for #4, 1/4" bolt for 1/0 and 3/0 AWG and a 5/16" bolt for 250 MCM and 750 MCM.

### FEATURES

- Wire entry ports on one side only.
- Mounting holes at each end of the connector allow for direct isolated mounting to the trough, panel or wireway.
- IPLM Series connectors are insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Eliminates the need for cover and taping. Abrasion and chemical resistant, UV resistant.
- Will not support combustion.
- Mounting holes will accept a 1/4" bolt.

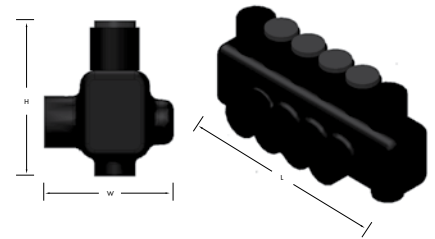


Figure varies by number of wire ports.

| CAT. NO.   | NO. OF PORTS | WIRE RANGE | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|------------|--------------|------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| IPLM4-3    | 3            | 4-14 AWG   | 2.750            | 1.240           | 1.390            | 45                           | Slotted               | 6              |
| IPLM4-4    | 4            | 4-14 AWG   | 3.180            | 1.240           | 1.390            | 45                           | Slotted               | 6              |
| IPLM4-5    | 5            | 4-14 AWG   | 3.600            | 1.240           | 1.390            | 45                           | Slotted               | 4              |
| IPLM4-6    | 6            | 4-14 AWG   | 4.020            | 1.240           | 1.390            | 45                           | Slotted               | 4              |
| IPLM4-7    | 7            | 4-14 AWG   | 4.190            | 1.240           | 1.390            | 45                           | Slotted               | 4              |
| IPLM4-10   | 10           | 4-14 AWG   | 5.710            | 1.240           | 1.390            | 45                           | Slotted               | 3              |
| IPLM1/0-3  | 3            | 1/0-14 AWG | 3.460            | 1.550           | 1.820            | 180                          | 3/16                  | 6              |
| IPLM1/0-4  | 4            | 1/0-14 AWG | 4.110            | 1.550           | 1.820            | 180                          | 3/16                  | 6              |
| IPLM1/0-5  | 5            | 1/0-14 AWG | 4.760            | 1.550           | 1.820            | 180                          | 3/16                  | 4              |
| IPLM1/0-6  | 6            | 1/0-14 AWG | 5.410            | 1.550           | 1.820            | 180                          | 3/16                  | 4              |
| IPLM1/0-8  | 8            | 1/0-14 AWG | 6.710            | 1.550           | 1.820            | 180                          | 3/16                  | 4              |
| IPLM1/0-9  | 9            | 1/0-14 AWG | 7.520            | 1.550           | 1.820            | 180                          | 3/16                  | 3              |
| IPLM1/0-10 | 10           | 1/0-14 AWG | 8.010            | 1.550           | 1.820            | 180                          | 3/16                  | 3              |

# POLARIS™ Pre-Insulated Connectors

Multi-Conductor With Mounting Holes, Either Side Wire Entry  
IPLMD Series



## SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.  
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables.  
Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.
- **Mounting:** Mounting holes will accept a 3/16" bolt for #4, 1/4" bolt for 1/0 and 3/0 AWG and a 5/16" bolt for 250 MCM and 750 MCM.

## FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Supplied with removable access plugs to close the entry port not being used.
- The mounting holes at each end of the connector allow for direct isolated mounting to the trough, panel or wireway.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Eliminates the need for cover and taping.
- Abrasion, chemical and UV resistant.
- Will not support combustion.

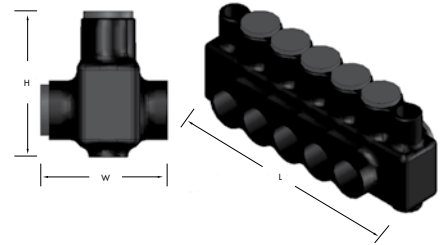
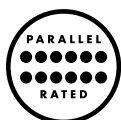


Figure varies by number of wire ports.

| CAT. NO.    | NO. OF PORTS | WIRE RANGE    | COPPER CONDUCTOR MAX. AMPS | ALUMINUM CONDUCTOR MAX. AMPS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|-------------|--------------|---------------|----------------------------|------------------------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| IPLMD3/0-3  | 3            | 3/0-6 AWG     | —                          | —                            | 3.870            | 1.830           | 1.910            | 250                          | 1/4                   | 3              |
| IPLMD3/0-4  | 4            | 3/0-6 AWG     | —                          | —                            | 4.650            | 1.830           | 1.910            | 250                          | 1/4                   | 3              |
| IPLMD3/0-5  | 5            | 3/0-6 AWG     | —                          | —                            | 5.430            | 1.830           | 1.910            | 250                          | 1/4                   | 2              |
| IPLMD3/0-6  | 6            | 3/0-6 AWG     | —                          | —                            | 6.210            | 1.830           | 1.910            | 250                          | 1/4                   | 2              |
| IPLMD3/0-7  | 7            | 3/0-6 AWG     | —                          | —                            | 6.990            | 1.830           | 1.910            | 250                          | 1/4                   | 2              |
| IPLMD3/0-8  | 8            | 3/0-6 AWG     | —                          | —                            | 7.770            | 1.830           | 1.910            | 250                          | 1/4                   | 2              |
| IPLMD3/0-9  | 9            | 3/0-6 AWG     | —                          | —                            | 8.600            | 1.830           | 1.910            | 250                          | 1/4                   | 2              |
| IPLMD3/0-10 | 10           | 3/0-6 AWG     | —                          | —                            | 9.330            | 1.830           | 1.910            | 250                          | 1/4                   | 2              |
| IPLMD250-3  | 3            | 250 MCM-6 AWG | —                          | —                            | 4.420            | 2.280           | 2.370            | 360                          | 5/16                  | 2              |
| IPLMD250-4* | 4            | 250 MCM-6 AWG | 527 A                      | 410 A                        | 5.280            | 2.280           | 2.370            | 360                          | 5/16                  | 2              |
| IPLMD250-5  | 5            | 250 MCM-6 AWG | —                          | —                            | 6.140            | 2.280           | 2.370            | 360                          | 5/16                  | 2              |
| IPLMD250-6* | 6            | 250 MCM-6 AWG | 790 A                      | 615 A                        | 7.010            | 2.280           | 2.370            | 360                          | 5/16                  | 2              |
| IPLMD250-7  | 7            | 250 MCM-6 AWG | —                          | —                            | 7.820            | 2.280           | 2.370            | 360                          | 5/16                  | 2              |
| IPLMD250-8* | 8            | 250 MCM-6 AWG | 1053 A                     | 820 A                        | 8.730            | 2.280           | 2.370            | 360                          | 5/16                  | 2              |
| IPLMD250-10 | 10           | 250 MCM-6 AWG | —                          | —                            | 10.400           | 2.280           | 2.370            | 360                          | 5/16                  | 2              |
| IPLMD250-12 | 12           | 250 MCM-6 AWG | —                          | —                            | 12.130           | 2.280           | 2.370            | 360                          | 5/16                  | 1              |
| IPLMD350-3  | 3            | 350 MCM-6 AWG | —                          | —                            | 5.120            | 2.410           | 2.770            | 400                          | 5/16                  | 2              |
| IPLMD350-4* | 4            | 350 MCM-6 AWG | 657 A                      | 514 A                        | 6.170            | 2.410           | 2.770            | 400                          | 5/16                  | 2              |
| IPLMD350-5  | 5            | 350 MCM-6 AWG | —                          | —                            | 7.220            | 2.410           | 2.770            | 400                          | 5/16                  | 2              |
| IPLMD350-6* | 6            | 350 MCM-6 AWG | 985 A                      | 770 A                        | 8.270            | 2.410           | 2.770            | 400                          | 5/16                  | 2              |
| IPLMD350-7  | 7            | 350 MCM-6 AWG | —                          | —                            | 9.320            | 2.410           | 2.770            | 400                          | 5/16                  | 2              |
| IPLMD350-8* | 8            | 350 MCM-6 AWG | 1314 A                     | 1028 A                       | 10.370           | 2.410           | 2.770            | 400                          | 5/16                  | 2              |
| IPLMD350-10 | 10           | 350 MCM-6 AWG | —                          | —                            | 12.470           | 2.410           | 2.770            | 400                          | 5/16                  | 2              |
| IPLMD350-12 | 12           | 350 MCM-6 AWG | —                          | —                            | 14.570           | 2.410           | 2.770            | 400                          | 5/16                  | 1              |



\*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.

# POLARIS™ Pre-Insulated Connectors

Multi-Conductor With Mounting Holes, Either Side Wire Entry  
IPLMD Series Cont'd



## SPECIFICATIONS

- UL Listed 486B Wire Connector (Dry location).
- **Temperature Rating/Voltage:** AL9CU.  
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.
- **Mounting:** Mounting holes will accept a 1/4" bolt for #4 thru 3/0 AWG and a 5/16" bolt for 250 MCM and 750 MCM.

## FEATURES

- Wire entry ports on both sides of the connector allow for access from either side.
- Supplied with removable access plugs to close the entry port not being used.
- The mounting holes at each end of the connector allow for direct isolated mounting to the trough, panel or wireway.
- Insulated with high-dielectric strength plastisol.
- Molded for precise fit and supplied with removable access plugs over the hex screws.
- Eliminates the need for cover and taping.
- Abrasion, chemical and UV resistant.
- Will not support combustion.

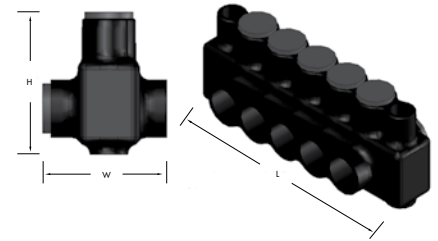
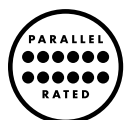


Figure varies by number of wire ports.

| CAT. NO.    | CERTIFICATION | NO. OF PORTS | WIRE RANGE    | COPPER CONDUCTOR MAX. AMPS | ALUMINUM CONDUCTOR MAX. AMPS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|-------------|---------------|--------------|---------------|----------------------------|------------------------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| IPLMD500-3  | cULus         | 3            | 500 MCM-4 AWG | —                          | —                            | 5.510            | 2.810           | 3.030            | 450                          | 5/16                  | 2              |
| IPLMD500-4* | cULus         | 4            | 500 MCM-4 AWG | 806 A                      | 631 A                        | 6.650            | 2.810           | 3.030            | 450                          | 5/16                  | 2              |
| IPLMD500-5  | cULus         | 5            | 500 MCM-4 AWG | —                          | —                            | 7.800            | 2.810           | 3.030            | 450                          | 5/16                  | 2              |
| IPLMD500-6* | cULus         | 6            | 500 MCM-4 AWG | 1209 A                     | 946 A                        | 8.940            | 2.810           | 3.030            | 450                          | 5/16                  | 2              |
| IPLMD500-7  | cULus         | 7            | 500 MCM-4 AWG | —                          | —                            | 9.710            | 2.810           | 3.030            | 450                          | 5/16                  | 2              |
| IPLMD500-8* | cULus         | 8            | 500 MCM-4 AWG | 1612 A                     | 1262 A                       | 11.230           | 2.810           | 3.030            | 450                          | 5/16                  | 2              |
| IPLMD500-9  | cULus         | 9            | 500 MCM-4 AWG | —                          | —                            | 12.480           | 2.810           | 3.030            | 450                          | 5/16                  | 2              |
| IPLMD500-10 | cULus         | 10           | 500 MCM-4 AWG | —                          | —                            | 13.520           | 2.810           | 3.030            | 450                          | 5/16                  | 1              |
| IPLMD500-12 | cULus         | 12           | 500 MCM-4 AWG | —                          | —                            | 15.440           | 2.810           | 3.030            | 550                          | 5/16                  | 1              |
| IPLMD600-3  | cULus         | 3            | 600 MCM-6 AWG | —                          | —                            | 5.880            | 2.960           | 3.150            | 550                          | 5/16                  | 1              |
| IPLMD600-4* | cULus         | 4            | 600 MCM-6 AWG | 1035 A                     | 810 A                        | 7.180            | 2.960           | 3.150            | 550                          | 5/16                  | 1              |
| IPLMD600-5  | cULus         | 5            | 600 MCM-6 AWG | —                          | —                            | 8.480            | 2.960           | 3.150            | 550                          | 5/16                  | 1              |
| IPLMD600-6* | cULus         | 6            | 600 MCM-6 AWG | 1554 A                     | 1215 A                       | 9.780            | 2.960           | 3.150            | 550                          | 5/16                  | 1              |
| IPLMD600-8* | cULus         | 8            | 600 MCM-6 AWG | 2070 A                     | 1620 A                       | 12.380           | 2.960           | 3.150            | 550                          | 5/16                  | 1              |
| IPLMD600-9  | cULus         | 9            | 600 MCM-6 AWG | —                          | —                            | 13.610           | 2.960           | 3.150            | 550                          | 5/16                  | 1              |
| IPLMD600-10 | cULus         | 10           | 600 MCM-6 AWG | —                          | —                            | 14.980           | 2.960           | 3.150            | 550                          | 5/16                  | 1              |
| IPLMD600-12 | cULus         | 12           | 600 MCM-6 AWG | —                          | —                            | 17.200           | 2.960           | 3.150            | 550                          | 5/16                  | 1              |
| IPLMD750-3  | —             | 3            | 750-250 MCM   | —                          | —                            | 6.320            | 3.410           | 3.540            | 550                          | 5/16                  | 1              |
| IPLMD750-4  | —             | 4            | 750-250 MCM   | —                          | —                            | 7.750            | 3.410           | 3.540            | 550                          | 5/16                  | 1              |
| IPLMD750-5  | —             | 5            | 750-250 MCM   | —                          | —                            | 9.180            | 3.410           | 3.540            | 550                          | 5/16                  | 1              |
| IPLMD750-6  | —             | 6            | 750-250 MCM   | —                          | —                            | 10.600           | 3.410           | 3.540            | 550                          | 5/16                  | 1              |
| IPLMD750-7  | —             | 7            | 750-250 MCM   | —                          | —                            | 11.650           | 3.410           | 3.540            | 550                          | 5/16                  | 1              |
| IPLMD750-8  | —             | 8            | 750-250 MCM   | —                          | —                            | 13.450           | 3.410           | 3.540            | 550                          | 5/16                  | 1              |
| IPLMD750-9  | —             | 9            | 750-250 MCM   | —                          | —                            | 15.050           | 3.410           | 3.540            | 550                          | 5/16                  | 1              |
| IPLMD750-10 | —             | 10           | 750-250 MCM   | —                          | —                            | 16.300           | 3.410           | 3.540            | 550                          | 5/16                  | 1              |
| IPLMD750-12 | —             | 12           | 750-250 MCM   | —                          | —                            | 18.780           | 3.410           | 3.540            | 550                          | 5/16                  | 1              |



\*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.



# POLARIS™ EDGE

## Pre-Insulated Connectors

Direct Bury Submersible Connectors  
ISPB, ISPC Series



### SPECIFICATIONS

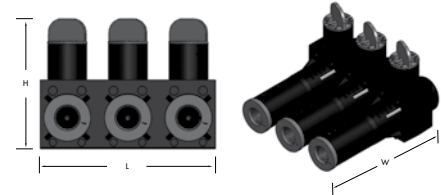
- Meets or exceeds ANSI C119.4 Class A specifications (Dry location).
- **Temperature Rating/Voltage:** AL9CU.  
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **WIRE TYPE:** For use with copper and/or aluminum cables.  
Not for fine stranded, flexible wire.
- **Torque Chart:** 37.
- **Installation Instructions:** See page 37 for extra illustrations and detailed installation information.

### FEATURES

- Manufactured from high strength 6061-T6 aluminum alloy, providing premium electrical and mechanical performance.
- Radial tipped set-screws reduce conductor strand damage, and the range taking design allows for many sizes and types of conductors – all in one connector.
- Encapsulated in rubber with a nominal thickness of 125 mils. and high dielectric strength.
- ISPC connectors (clear) allow for an easier installation.
- Abrasion and chemical resistant.
- ISPB is UV resistant.
- Will not support combustion.



Figure varies by number of wire ports.



| CAT. NO.  | FIG. NO. | NO. OF PORTS | COLOR | WIRE RANGE     | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|-----------|----------|--------------|-------|----------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| ISPB350-3 | 1        | 3            | Black | 350 MCM-12 AWG | 3.610            | 4.190           | 3.060            | 360                          | 5/16                  | 1              |
| ISPB350-4 | 1        | 4            | Black | 350 MCM-12 AWG | 4.800            | 4.190           | 3.060            | 360                          | 5/16                  | 1              |
| ISPB350-6 | 1        | 6            | Black | 350 MCM-12 AWG | 7.180            | 4.190           | 3.060            | 360                          | 5/16                  | 1              |
| ISPC350-3 | 2        | 3            | Clear | 350 MCM-12 AWG | 3.610            | 4.190           | 3.060            | 360                          | 5/16                  | 1              |
| ISPC350-4 | 2        | 4            | Clear | 350 MCM-12 AWG | 4.800            | 4.190           | 3.060            | 360                          | 5/16                  | 1              |
| ISPC350-6 | 2        | 6            | Clear | 350 MCM-12 AWG | 7.180            | 4.190           | 3.060            | 360                          | 5/16                  | 1              |
| ISPB600-3 | 1        | 3            | Black | 600 MCM-12 AWG | 4.870            | 5.460           | 3.130            | 500                          | 5/16                  | 1              |
| ISPB600-4 | 1        | 4            | Black | 600 MCM-12 AWG | 6.560            | 5.460           | 3.130            | 500                          | 5/16                  | 1              |
| ISPB600-6 | 1        | 6            | Black | 600 MCM-12 AWG | 9.940            | 5.460           | 3.130            | 500                          | 5/16                  | 1              |

# POLARIS™ EDGE

## Pre-Insulated Connectors

### Submersible Connectors

ISPB, ISPBO, ISPBS Series



### SPECIFICATIONS

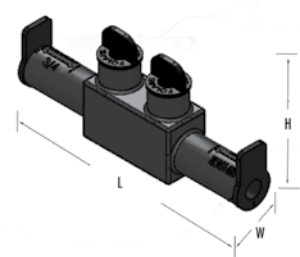
- UL Listed 486D Sealed Wire Connector (Dry Location).
- Meets or exceeds ANSI C119.4 Class A specifications.
- **Temperature Rating/Voltage:** AL9CU.  
Cold temperature rated to -45 °C, rated 600V, 90 °C.
- **Wire Type:** Dual rated for copper or aluminum conductors.
- **Installation Instructions:** See page 38 for extra illustrations and detailed installation information.

### FEATURES

- Submersible to 6' damp/wet location, direct bury (UL486D).
- Manufactured from high strength 6061-T6 aluminum alloy, providing premium electrical and mechanical performance.
- Radial tipped set-screws reduce conductor strand damage, and the range taking design allows for many sizes and types of conductors – all in one connector.
- Encapsulated in rubber with a nominal thickness of 125 mils. and high dielectric strength.
- Abrasion, chemical and UV resistant.
- Will not support combustion.



Figure varies by number of wire ports.



| CAT. NO.  | FIG. NO. | NO. OF PORTS | COLOR | WIRE RANGE | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|-----------|----------|--------------|-------|------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| ISPBS2/0  | 1        | 2            | Black | 2/0-#14    | 5.050            | 0.880           | 2.100            | 120                          | 3/16                  | 1              |
| ISPBS350  | 1        | 2            | Black | 350-#12    | 8.830            | 1.250           | 3.380            | 360                          | 5/16                  | 1              |
| ISPB2/0-2 | 2        | 2            | Black | 2/0-#14    | 1.930            | 2.650           | 2.100            | 120                          | 3/16                  | 1              |
| ISPB2/0-3 | 2        | 3            | Black | 2/0-#14    | 2.790            | 2.650           | 2.100            | 120                          | 3/16                  | 1              |
| ISPB2/0-4 | 2        | 4            | Black | 2/0-#14    | 3.650            | 2.650           | 2.100            | 120                          | 3/16                  | 1              |
| ISPB2/0-6 | 2        | 6            | Black | 2/0-#14    | 5.370            | 2.650           | 2.100            | 120                          | 3/16                  | 1              |
| ISPBO2/0  | 3        | 3            | Black | 2/0-#14    | 2.790            | 4.180           | 2.100            | 120                          | 3/16                  | 1              |

# POLARIS™ Uninsulated Connectors

## Heavy-Duty Uninsulated Either Side Wire Entry PLH Series



### SPECIFICATIONS

- UL Listed 486B Wire Connector.
- **Temperature Rating/Voltage:** AL9CU. Rated 2000V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

### FEATURES

- Connector block is wider than the standard PL Series connector. Two pressure screws provided for each cable to ensure the best connection possible.
- Heavy duty PLH Series connectors are designed to handle the most demanding applications from 750 MCM to 1/0 MCM.
- Plated for corrosion resistance.

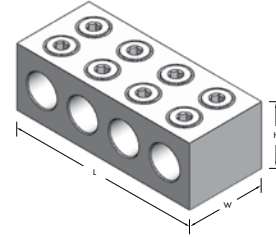
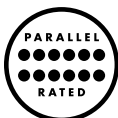


Figure varies by number of wire ports.

| CAT. NO.  | NO. OF PORTS | WIRE RANGE        | COPPER CONDUCTOR MAX. AMPS | ALUMINUM CONDUCTOR MAX. AMPS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|-----------|--------------|-------------------|----------------------------|------------------------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| PLH750-6* | 6            | 750 MCM - 1/0 AWG | 1767 A                     | 1395 A                       | 8.850            | 2.500           | 2.000            | 550                          | 5/16                  | 1              |
| PLH750-10 | 10           | 750 MCM - 1/0 AWG | 2356 A                     | 1860 A                       | 14.550           | 2.500           | 2.000            | 550                          | 5/16                  | 1              |



\*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.

**POLARIS™**  
**Uninsulated Connectors**  
 Uninsulated Multi-Cable Connectors  
 PL Series



**SPECIFICATIONS**

- UL Listed 486B Wire Connector.
- **Temperature Rating/Voltage:** AL9CU. Rated 2000V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

**FEATURES**

- Connectors are made from 6061-T6 aluminum alloy and are plated for corrosion resistance.
- Available in one hole increments up to 14 holes
- Suitable for use on wire from #4 AWG to 750 MCM.

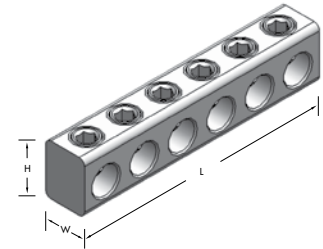


Figure varies by number of wire ports.

| CAT. NO. | NO. OF PORTS | WIRE RANGE | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |    |
|----------|--------------|------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|----|
| PL4-2    | 2            | 4-14 AWG   | 0.880            | 0.500           | 0.630            | 45                           | Slotted               | ●              | 12 |
| PL4-3    | 3            | 4-14 AWG   | 1.300            | 0.500           | 0.630            | 45                           | Slotted               | ●              | 12 |
| PL4-4    | 4            | 4-14 AWG   | 1.730            | 0.500           | 0.630            | 45                           | Slotted               | ●              | 12 |
| PL4-5    | 5            | 4-14 AWG   | 2.150            | 0.500           | 0.630            | 45                           | Slotted               | ●              | 6  |
| PL4-6    | 6            | 4-14 AWG   | 2.570            | 0.500           | 0.630            | 45                           | Slotted               | ●              | 6  |
| PL4-8    | 8            | 4-14 AWG   | 3.410            | 0.500           | 0.630            | 45                           | Slotted               | ●              | 6  |
| PL4-10   | 10           | 4-14 AWG   | 4.260            | 0.500           | 0.630            | 45                           | Slotted               | ●              | 4  |
| PL4-14   | 14           | 4-14 AWG   | 5.960            | 0.500           | 0.630            | 45                           | Slotted               | ●              | 2  |
| PL1/0-2  | 2            | 1/0-14 AWG | 1.350            | 0.630           | 0.880            | 180                          | 3/16                  | ●              | 12 |
| PL1/0-3  | 3            | 1/0-14 AWG | 2.000            | 0.630           | 0.880            | 180                          | 3/16                  | ●              | 12 |
| PL1/0-4  | 4            | 1/0-14 AWG | 2.650            | 0.630           | 0.880            | 180                          | 3/16                  | ●              | 12 |
| PL1/0-5  | 5            | 1/0-14 AWG | 3.300            | 0.630           | 0.880            | 180                          | 3/16                  | ●              | 6  |
| PL1/0-6  | 6            | 1/0-14 AWG | 3.950            | 0.630           | 0.880            | 180                          | 3/16                  | ●              | 6  |
| PL1/0-7  | 7            | 1/0-14 AWG | 4.610            | 0.630           | 0.880            | 180                          | 3/16                  | ●              | 6  |
| PL1/0-8  | 8            | 1/0-14 AWG | 5.250            | 0.630           | 0.880            | 180                          | 3/16                  | ●              | 6  |
| PL1/0-10 | 10           | 1/0-14 AWG | 6.550            | 0.630           | 0.880            | 180                          | 3/16                  | ●              | 4  |
| PL1/0-14 | 14           | 1/0-14 AWG | 9.150            | 0.630           | 0.880            | 180                          | 3/16                  | ●              | 2  |



**SPECIFICATIONS**

- UL Listed 486B Wire Connector.
- **Temperature Rating/Voltage:** AL9CU. Rated 2000V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

**FEATURES**

- Connectors are made from 6061-T6 aluminum alloy and are plated for corrosion resistance.
- Available in one hole increments up to 14 holes
- Suitable for use on wire from #4 AWG to 750 MCM.

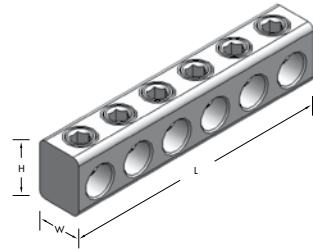
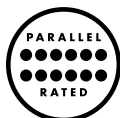


Figure varies by number of wire ports.

| CAT. NO. | NO. OF PORTS | WIRE RANGE    | COPPER CONDUCTOR MAX. AMPS | ALUMINUM CONDUCTOR MAX. AMPS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN QTY. |
|----------|--------------|---------------|----------------------------|------------------------------|------------------|-----------------|------------------|------------------------------|-----------------------|---------------|
| PL3/0-3  | 3            | 3/0-6 AWG     | —                          | —                            | 2.380            | 0.690           | 0.940            | 250                          | 1/4                   | 6             |
| PL3/0-4  | 4            | 3/0-6 AWG     | —                          | —                            | 3.160            | 0.690           | 0.940            | 250                          | 1/4                   | 6             |
| PL3/0-5  | 5            | 3/0-6 AWG     | —                          | —                            | 3.940            | 0.690           | 0.940            | 250                          | 1/4                   | 6             |
| PL3/0-6  | 6            | 3/0-6 AWG     | —                          | —                            | 4.720            | 0.690           | 0.940            | 250                          | 1/4                   | 6             |
| PL3/0-7  | 7            | 3/0-6 AWG     | —                          | —                            | 5.490            | 0.690           | 0.940            | 250                          | 1/4                   | 6             |
| PL3/0-8  | 8            | 3/0-6 AWG     | —                          | —                            | 6.280            | 0.690           | 0.940            | 250                          | 1/4                   | 6             |
| PL3/0-9  | 9            | 3/0-6 AWG     | —                          | —                            | 7.050            | 0.690           | 0.940            | 250                          | 1/4                   | 4             |
| PL3/0-10 | 10           | 3/0-6 AWG     | —                          | —                            | 7.840            | 0.690           | 0.940            | 250                          | 1/4                   | 4             |
| PL3/0-12 | 12           | 3/0-6 AWG     | —                          | —                            | 9.400            | 0.690           | 0.940            | 250                          | 1/4                   | 3             |
| PL3/0-14 | 14           | 3/0-6 AWG     | —                          | —                            | 10.960           | 0.690           | 0.940            | 250                          | 1/4                   | 2             |
| PL250-2  | 2            | 250 MCM-6 AWG | —                          | —                            | 1.820            | 0.880           | 1.130            | 360                          | 5/16                  | 6             |
| PL250-3  | 3            | 250 MCM-6 AWG | —                          | —                            | 2.680            | 0.880           | 1.130            | 360                          | 5/16                  | 6             |
| PL250-4* | 4            | 250 MCM-6 AWG | 527 A                      | 410 A                        | 3.550            | 0.880           | 1.130            | 360                          | 5/16                  | 6             |
| PL250-5  | 5            | 250 MCM-6 AWG | —                          | —                            | 4.410            | 0.880           | 1.130            | 360                          | 5/16                  | 6             |
| PL250-6* | 6            | 250 MCM-6 AWG | 790 A                      | 615 A                        | 5.270            | 0.880           | 1.130            | 360                          | 5/16                  | 6             |
| PL250-7  | 7            | 250 MCM-6 AWG | —                          | —                            | 6.140            | 0.880           | 1.130            | 360                          | 5/16                  | 6             |
| PL250-8* | 8            | 250 MCM-6 AWG | 1053 A                     | 820 A                        | 6.990            | 0.880           | 1.130            | 360                          | 5/16                  | 6             |



\*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.

**POLARIS™**  
**Uninsulated Connectors**  
 Uninsulated Multi-Cable Connectors  
 PL Series Cont'd



**SPECIFICATIONS**

- UL Listed 486B Wire Connector.
- **Temperature Rating/Voltage:** AL9CU. Rated 2000V, 90 °C.
- **Wire Type:** Dual rated for use with copper and/or aluminum cables. Not for fine-stranded, flexible wire.
- **Torque Chart:** 34.

POLARIS™

**FEATURES**

- Connectors are made from 6061-T6 aluminum alloy and are plated for corrosion resistance.
- Available in one hole increments up to 14 holes
- Suitable for use on wire from #4 AWG to 750 MCM.

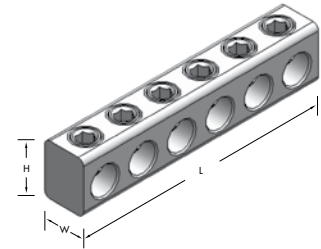
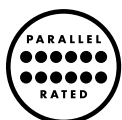


Figure varies by number of wire ports.

| CAT. NO. | NO. OF PORTS | WIRE RANGE    | COPPER CONDUCTOR MAX. AMPS | ALUMINUM CONDUCTOR MAX. AMPS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | MAX. TORQUE VALUE (IN./LBS.) | HEX/WRENCH SIZE (IN.) | STD. CTN. QTY. |
|----------|--------------|---------------|----------------------------|------------------------------|------------------|-----------------|------------------|------------------------------|-----------------------|----------------|
| PL250-9  | 9            | 250 MCM-6 AWG | —                          | —                            | 7.860            | 0.880           | 1.130            | 360                          | 5/16                  | 12             |
| PL250-10 | 10           | 250 MCM-6 AWG | —                          | —                            | 8.720            | 0.880           | 1.130            | 360                          | 5/16                  | 12             |
| PL250-11 | 11           | 250 MCM-6 AWG | —                          | —                            | 9.580            | 0.880           | 1.130            | 360                          | 5/16                  | 12             |
| PL250-12 | 12           | 250 MCM-6 AWG | —                          | —                            | 10.450           | 0.880           | 1.130            | 360                          | 5/16                  | 6              |
| PL350-3  | 3            | 350 MCM-6 AWG | —                          | —                            | 3.220            | 1.000           | 1.440            | 400                          | 5/16                  | 6              |
| PL350-4* | 4            | 350 MCM-6 AWG | 657 A                      | 514 A                        | 4.270            | 1.000           | 1.440            | 400                          | 5/16                  | 6              |
| PL350-6* | 6            | 350 MCM-6 AWG | 985 A                      | 770 A                        | 6.370            | 1.000           | 1.440            | 400                          | 5/16                  | 4              |
| PL350-8* | 8            | 350 MCM-6 AWG | 1314 A                     | 1028 A                       | 8.470            | 1.000           | 1.440            | 400                          | 5/16                  | 2              |
| PL350-10 | 10           | 350 MCM-6 AWG | —                          | —                            | 10.570           | 1.000           | 1.440            | 400                          | 5/16                  | 12             |
| PL500-4* | 4            | 500 MCM-4 AWG | 806 A                      | 631 A                        | 4.860            | 1.130           | 1.630            | 450                          | 5/16                  | 12             |
| PL500-6* | 6            | 500 MCM-4 AWG | 1209 A                     | 946 A                        | 7.145            | 1.130           | 1.630            | 450                          | 5/16                  | 12             |
| PL500-7  | 7            | 500 MCM-4 AWG | —                          | —                            | 8.280            | 1.130           | 1.630            | 450                          | 5/16                  | 6              |
| PL500-8* | 8            | 500 MCM-4 AWG | 1612 A                     | 1262 A                       | 9.440            | 1.130           | 1.630            | 450                          | 5/16                  | 6              |
| PL500-9  | 9            | 500 MCM-4 AWG | —                          | —                            | 10.570           | 1.130           | 1.630            | 450                          | 5/16                  | 6              |
| PL500-10 | 10           | 500 MCM-4 AWG | —                          | —                            | 11.730           | 1.130           | 1.630            | 450                          | 5/16                  | 6              |
| PL750-3  | 3            | 750-250 MCM   | —                          | —                            | 4.570            | 1.440           | 2.000            | 550                          | 3/8                   | 4              |
| PL750-4  | 4            | 750-250 MCM   | —                          | —                            | 6.000            | 1.440           | 2.000            | 550                          | 3/8                   | 2              |
| PL750-6  | 6            | 750-250 MCM   | —                          | —                            | 8.850            | 1.440           | 2.000            | 550                          | 3/8                   | 2              |
| PL750-8  | 8            | 750-250 MCM   | —                          | —                            | 11.700           | 1.440           | 2.000            | 550                          | 3/8                   | 1              |



\*An "Industry First" by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for Copper and Aluminum parallel conductors.

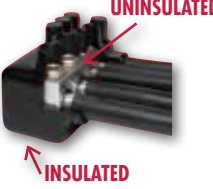
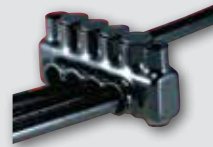
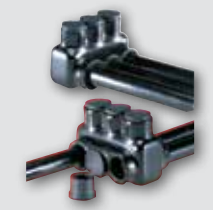



# POLARIS™ CUSTOM PRE-INSULATED CONNECTOR

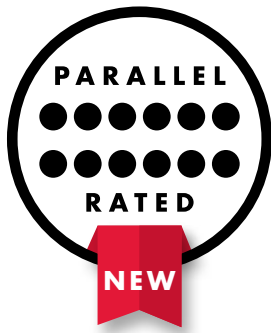
- Let us custom engineer and fabricate a UL Listed insulated block system for your next project. Each connector is made with exact hole size and number for the cable runs being used. You may choose to order a customized version of our IPL Series or add one or more of the options listed below.
- The combinations we can create and produce are almost unlimited. Connector size can be up to 22" long also available without insulation. We custom design and machine your connector from your specifications and our engineering and production data.

## BUILD THE CATALOG NUMBER

Create a custom catalog number, follow the checklist and build your catalog number as you go. Call our sales staff at 800-321-5847 with any questions.

|    | <p><b>Insulated/<br/>Uninsulated</b></p> | <p>Blocks are covered with a unique plastisol insulation but you are able to have uninsulated.</p>  | <p><input type="checkbox"/></p> <p><b>INSULATED<br/>BLOCK USE<br/>"I"</b></p> | <p><input type="checkbox"/></p> <p><b>UNINSULATED<br/>BLOCK USE<br/>"U"</b></p> |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
|--|--|---|---|---|--------|---|-------|---|-------|---|-------|---|-------|---|-----|---|---------|---|----------|---|-------------------------------------|--|---|--|
|    | <p><b>Mounting</b></p>                   | <p>Mounting holes are provided in each end of the connector block and are isolated from the block with insulated sleeves.</p>                                   | <p><input type="checkbox"/></p> <p><b>YES<br/>ADD<br/>"M"</b></p>             | <p><input type="checkbox"/></p> <p><b>NO<br/>LEAVE BLANK</b></p>                |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
| <table border="1"> <thead> <tr> <th>WIRE RANGE</th> <th>LETTER DESIGNATION</th> </tr> </thead> <tbody> <tr><td>4-14</td><td>A</td></tr> <tr><td>1/0-14</td><td>B</td></tr> <tr><td>3/0-6</td><td>C</td></tr> <tr><td>250-6</td><td>D</td></tr> <tr><td>350-6</td><td>E</td></tr> <tr><td>500-4</td><td>F</td></tr> <tr><td>600</td><td>J</td></tr> <tr><td>750-250</td><td>G</td></tr> <tr><td>1000-500</td><td>H</td></tr> </tbody> </table> | WIRE RANGE                               | LETTER DESIGNATION  | 4-14  | A   | 1/0-14 | B | 3/0-6 | C | 250-6 | D | 350-6 | E | 500-4 | F | 600 | J | 750-250 | G | 1000-500 | H | <p><b>Ports /<br/>Wire Size</b></p> | <p>Ports: How many ports will you need?<br/>____ (space for #1)</p> <p>Wire Size: Choose the letter indicating your wire size from the chart to the left: ____</p> | <p><b>Single Wire Size:</b><br/>A. 4 ports 500-4MCM = 4F<br/>Add to the part number: 4F</p> | <p><b>Multiple:</b><br/>A. 4 ports 500-4MCM = 4F<br/>B. 6 ports 1/0-14 = 6B<br/>C. 2 ports 2250MCM = 2D<br/>Add to the part number: 4F6B2D</p> |
| WIRE RANGE   | LETTER DESIGNATION                       |   |   |   |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
| 4-14   | A  |   |   |   |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
| 1/0-14   | B  |   |   |   |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
| 3/0-6  | C  |   |   |   |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
| 250-6  | D  |   |   |   |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
| 350-6  | E  |   |   |   |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
| 500-4  | F  |   |   |   |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
| 600  | J  |   |   |   |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
| 750-250  | G  |   |   |   |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
| 1000-500   | H  |   |   |   |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
|    | <p><b>Same/<br/>Opposite Side</b></p>    | <p>Cable can enter either side of the connector block, based on your requirements. This eliminates having to bend the secondary cable around the connector.</p> | <p><input type="checkbox"/></p> <p><b>YES<br/>ADD<br/>"O"</b></p>             | <p><input type="checkbox"/></p> <p><b>NO<br/>LEAVE BLANK</b></p>                |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |
|    | <p><b>Stacked</b></p>                    | <p>Wire entry holes on top of the other, allowing the block to be shorter, in length and is ideal for use in small wireways or panels.</p>                      | <p><input type="checkbox"/></p> <p><b>YES<br/>ADD<br/>"S"</b></p>             | <p><input type="checkbox"/></p> <p><b>NO<br/>LEAVE BLANK</b></p>                |        |   |       |   |       |   |       |   |       |   |     |   |         |   |          |   |                                     |  |   |  |

# POLARIS™ BLACK PARALLEL RATED CONNECTORS



NSi Industries Polaris™ Pre-Insulated Connectors have created another “Industry First” by providing a UL Listed 486A/B connector with code compliant and UL Listed maximum ampacity for copper and aluminum parallel conductors. **Polaris™ Parallel Rated** Connectors provide safety and NEC compliance when installing parallel runs.

Available in 2, 3 & 4 Parallels (4, 6 & 8 hole) in wire ranges of 250MCM-6AWG, 350MCM-6AWG, 500MCM-4AWG, 600MCM-6AWG and 750MCM-1/0AWG.



## POLARIS™ Black Parallel Rated Products

| DESCRIPTION / WIRE RANGE | IPL SERIES | IPLD SERIES | IPLMD SERIES | IPLMDH SERIES | IPLDH SERIES | IPLDS SERIES | PL SERIES (UN-INSULATED) | PLM SERIES (UN-INSULATED) | PLH SERIES (UN-INSULATED) | COPPER CONDUCTOR MAX. AMPS | ALUMINUM CONDUCTOR MAX. AMPS |
|--------------------------|------------|-------------|--------------|---------------|--------------|--------------|--------------------------|---------------------------|---------------------------|----------------------------|------------------------------|
| 250 MCM - 6 AWG          | IPL250-4   | IPLD250-4   | IPLMD250-4*  | CFPD*         | CFPD*        | IPLDS250-4*  | PL250-4                  | PLM250-4*                 | CFPD*                     | 527 A                      | 410 A                        |
|                          | IPL250-6   | IPLD250-6   | IPLMD250-6   | CFPD*         | CFPD*        | CFPD*        | PL250-6                  | PLM250-6*                 | CFPD*                     | 790 A                      | 615 A                        |
|                          | IPL250-8   | IPLD250-8   | IPLMD250-8   | CFPD*         | CFPD*        | CFPD*        | PL250-8                  | PLM250-8*                 | CFPD*                     | 1053 A                     | 820 A                        |
| 350 MCM - 6 AWG          | IPL350-4   | IPLD350-4   | IPLMD350-4   | CFPD*         | CFPD*        | IPLDS350-4   | PL350-4                  | CFPD*                     | CFPD*                     | 657 A                      | 514 A                        |
|                          | IPL350-6   | IPLD350-6   | IPLMD350-6   | CFPD*         | CFPD*        | IPLDS350-6   | PL350-6                  | PLM350-6*                 | CFPD*                     | 985 A                      | 770 A                        |
|                          | IPL350-8   | IPLD350-8   | IPLMD350-8   | CFPD*         | CFPD*        | IPLDS350-8   | PL350-8                  | PLM350-8*                 | CFPD*                     | 1314 A                     | 1028 A                       |
| 500 MCM - 4 AWG          | IPL500-4   | IPLD500-4   | IPLMD500-4   | CFPD*         | CFPD*        | IPLDS500-4   | PL500-4                  | CFPD*                     | CFPD*                     | 806 A                      | 631 A                        |
|                          | IPL500-6   | IPLD500-6   | IPLMD500-6   | CFPD*         | CFPD*        | IPLDS500-6   | PL500-6                  | CFPD*                     | CFPD*                     | 1209 A                     | 946 A                        |
|                          | IPL500-8   | IPLD500-8   | IPLMD500-8   | CFPD*         | CFPD*        | IPLDS500-8   | PL500-8                  | CFPD*                     | CFPD*                     | 1612 A                     | 1262 A                       |
| 600 MCM - 6 AWG          | IPL600-4   | IPLD600-4   | IPLMD600-4   | CFPD*         | CFPD*        | CFPD*        | CFPD*                    | CFPD*                     | CFPD*                     | 1035 A                     | 810 A                        |
|                          | IPL600-6   | IPLD600-6   | IPLMD600-6   | CFPD*         | CFPD*        | CFPD*        | CFPD*                    | CFPD*                     | CFPD*                     | 1554 A                     | 1215 A                       |
|                          | CFPD*      | IPLD600-8   | IPLMD600-8   | CFPD*         | CFPD*        | CFPD*        | CFPD*                    | CFPD*                     | CFPD*                     | 2070 A                     | 1620 A                       |
| 750 MCM - 1/0            | CFPD*      | CFPD*       | CFPD*        | IPLMDH750-4*  | IPLDH750-4   | CFPD*        | CFPD*                    | CFPD*                     | PLH750-4*                 | 1178 A                     | 930 A                        |
|                          | CFPD*      | CFPD*       | CFPD*        | CFPD*         | IPLDH750-6   | CFPD*        | CFPD*                    | CFPD*                     | PLH750-6                  | 1767 A                     | 1395 A                       |
|                          | CFPD*      | CFPD*       | CFPD*        | IPLMDH750-8*  | IPLDH750-8   | CFPD*        | CFPD*                    | CFPD*                     | PLH750-8*                 | 2356 A                     | 1860 A                       |

\*CFPD = Call Factory for Price and Delivery.

## UL LISTED TORQUE VALUES PER CONDUCTOR SIZE (IN/LBS)

| CONNECTOR WIRE SIZE / PORT SIZE | #10 - #14 AWG | #8 AWG | #4 - #6 AWG | #3 - #1 AWG | 1/0 AWG | 2/0 AWG | 3/0 AWG | 4/0 AWG | 250 MCM | 350 MCM | 400 MCM | 500 MCM | 750-600 MCM | 800-1000 MCM |
|---------------------------------|---------------|--------|-------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|--------------|
| #4 AWG - #14 AWG                | 35            | 40     | 45          | -           | -       | -       | -       | -       | -       | -       | -       | -       | -           | -            |
| 1/0 AWG - #14 AWG               | 35            | 75     | 110         | 150         | 180     | -       | -       | -       | -       | -       | -       | -       | -           | -            |
| 3/0 AWG - #6 AWG                | -             | -      | 110         | 150         | 180     | 180     | 250     | -       | -       | -       | -       | -       | -           | -            |
| 250 MCM - 6 AWG                 | -             | -      | 110         | 150         | 180     | 180     | 250     | 250     | 360     | -       | -       | -       | -           | -            |
| 350 MCM - 6 AWG                 | -             | -      | 110         | 150         | 180     | 180     | 250     | 250     | 360     | 400     | -       | -       | -           | -            |
| 500 MCM - 4 AWG                 | -             | -      | 110         | 150         | 180     | 180     | 250     | 250     | 360     | 400     | 425     | 450     | -           | -            |
| 600 MCM - 6 AWG                 | -             | -      | 110         | 150         | 180     | 180     | 250     | 250     | 360     | 400     | 425     | 450     | 550         | -            |
| 750 MCM - 1/0 AWG               | -             | -      | -           | -           | 550     | 550     | 550     | 550     | 550     | 550     | 550     | 550     | 550         | 550          |

# POLARIS™ TORQUE, STRIP & ACCESSORIES CHARTS

## UL LISTED TORQUE VALUES PER CONDUCTOR SIZE (IN/LBS)

### CONDUCTOR SIZE

| CONNECTOR WIRE SIZE / PORT SIZE | #10 - #14 AWG | #8 AWG | #4 - #6 AWG | #3 - #1 AWG | 1/0 AWG | 2/0 AWG | 3/0 AWG | 4/0 AWG | 250 MCM | 350 MCM | 400 MCM | 500 MCM | 750-600 MCM | 800-1000 MCM |
|---------------------------------|---------------|--------|-------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|--------------|
| #4 AWG - #14 AWG                | 35            | 40     | 45          |             |         |         |         |         |         |         |         |         |             |              |
| 1/0 AWG - #14 AWG               | 35            | 75     | 110         | 150         | 180     |         |         |         |         |         |         |         |             |              |
| 3/0 AWG - #6 AWG                |               |        | 110         | 150         | 180     | 180     | 250     |         |         |         |         |         |             |              |
| 250 MCM - 6 AWG                 |               |        | 110         | 150         | 180     | 180     | 250     | 250     | 360     |         |         |         |             |              |
| 350 MCM - 6 AWG                 |               |        | 110         | 150         | 180     | 180     | 250     | 250     | 360     | 400     |         |         |             |              |
| 500 MCM - 4 AWG                 |               |        | 110         | 150         | 180     | 180     | 250     | 250     | 360     | 400     | 425     | 450     |             |              |
| 600 MCM - 6 AWG                 |               |        | 110         | 150         | 180     | 180     | 250     | 250     | 360     | 400     | 425     | 450     | 550         |              |
| 750 MCM - 1/0 AWG               |               |        |             |             | 550     | 550     | 550     | 550     | 550     | 550     | 550     | 550     | 550         | 550          |

## STRIP CHART FOR STANDARD CONNECTORS

| CONNECTOR SIZE | STRIP LENGTH | BOLT DIA. FOR MOUNTING |
|----------------|--------------|------------------------|
| 750 H          | 3.250        | 5/16                   |
| ISRH 750       | 2.312        | 5/16                   |
| 750 MCM        | 2.000        | 5/16                   |
| 600 MCM        | 1.625        | 5/16                   |
| 500 MCM        | 1.625        | 5/16                   |
| 350 MCM        | 1.375        | 5/16                   |
| 250 MCM        | 1.250        | 5/16                   |
| ISR 250        | 1.125        | 5/16                   |
| 3/0 AWG        | 1.000        | 1/4                    |
| 1/0 AWG        | 0.875        | 1/4                    |
| 4 AWG          | 0.689        | 3/16                   |

## ACCESSORIES

| CAT. NO. | UPC CODE | DESCRIPTION      | CONNECTION SIZE | STD. CNT. QTY. |
|----------|----------|------------------|-----------------|----------------|
| SP-4     | 74908    | Set-screw covers | 4 AWG           | 15             |
| SP1/0    | 78907    | Set-screw covers | 1/0 AWG         | 15             |
| SP3/0    | 78910    | Set-screw covers | 3/0 AWG         | 15             |
| SP250    | 78909    | Set-screw covers | 250 MCM         | 12             |
| SP350    | 78911    | Set-screw covers | 350 MCM         | 10             |
| SP500    | 78912    | Set-screw covers | 500 MCM         | 8              |
| SP600    | 78913    | Set-screw covers | 600 MCM         | 6              |
| SP750    | 78914    | Set-screw covers | 750 MCM         | 6              |
| CP3/0    | 95215    | Cable port plugs | 3/0 AWG         | 15             |
| CP250    | 92216    | Cable port plugs | 250 MCM         | 10             |
| CP350    | 92217    | Cable port plugs | 350 MCM         | 8              |
| CP500    | 95218    | Cable port plugs | 500 MCM         | 6              |
| CP600    | 78942    | Cable port plugs | 600 MCM         | 4              |
| CP750    | 95219    | Cable port plugs | 750 MCM         | 4              |

# POLARIS GREY™ INSTALLATION INSTRUCTIONS

Wire insulation must be stripped in accordance with the Standard Connector Strip Length Chart below. The wire insulation on a properly installed connector must be inside the conductor port no less than 3/8 inch. For UL Listed connection pressure screws **MUST** be secured at the torque value given on the Torque Charts corresponding to the connector, wire size and classification shown on the reverse side. The UL listing is for stranded wire only, CU 600 Volts maximum for building wiring and 1000 volts maximum for signs or luminaries. The connector and insulation temperature rating is 90°C.

## TORQUE CHART FOR POLARIS GREY™ CONNECTORS IN INCH POUNDS

BUILDING WIRE CLASS B, C, D WIRE SIZE AWG

| CONNECTOR | 3/0 | 2/0 | 1/0 | #1  | #2  | #3  | #4  | #6  | #8 | #10 | #12 | #14 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| 3/0       | 250 | 180 | 180 | 120 | 120 | 120 | 110 |     |    |     |     |     |
| #1        |     |     |     | 150 | 150 | 150 | 110 | 110 | 75 | 45  |     |     |
| #6        |     |     |     |     |     |     |     | 45  | 45 | 45  | 45  | 45  |

## FLEXIBLE WIRE CLASS K, M, I WIRE SIZE AWG

| CONNECTOR | 3/0 | 2/0 | 1/0 | #1  | #2  | #3  | #4  | #6  | #8 | #10 | #12 | #14 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| 3/0       |     | 180 | 180 | 120 | 120 |     |     |     |    |     |     |     |
| #1        |     |     |     |     | 150 | 150 | 110 | 110 | 75 | 45  |     |     |
| #6        |     |     |     |     |     |     |     | 45  | 45 | 45  | 45  | 45  |

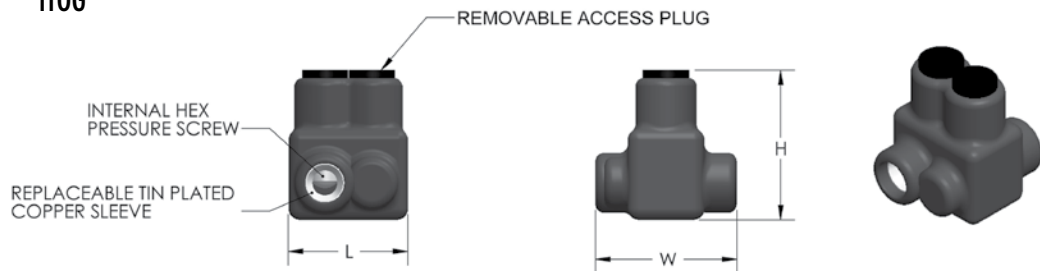
## STRIP LENGTH CHART

| CONNECTOR SIZE | STRIP LENGTH (IN) |
|----------------|-------------------|
| 3/0            | 1                 |
| #1             | 7/8               |
| #6             | 11/16             |

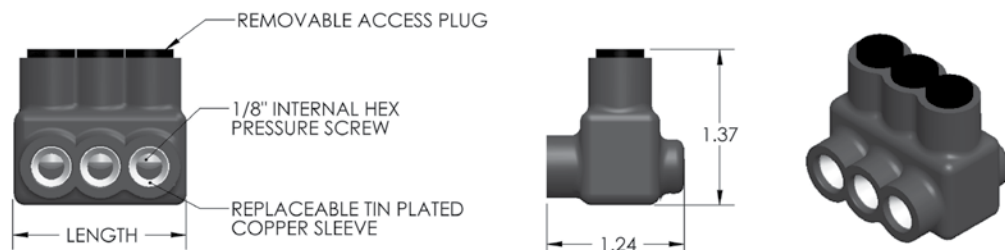
### PROTECT THOSE FINE-STRANDED WIRES WITH POLARIS GREY™.

Here's our secret: Polaris Grey™ comes with an integral sleeve which protects the fine strands and helps the conductor maintain its shape during the tightening process. The sleeve eliminates breakage of the strands and reduces stress on the conductor and therefore the potential for hot-spots. Replacement sleeves can be purchased separately. Specially designed for connecting and terminating fine-stranded, flexible copper conductors. Polaris Grey™ combines the reliability and safety of a compression connection with the ease, affordability and flexibility of a mechanical connection. Motor replacement is now really easy. Simply strip the cable, insert it into Polaris Grey™, tighten the hex head screw, replace the cap.

### ITOG

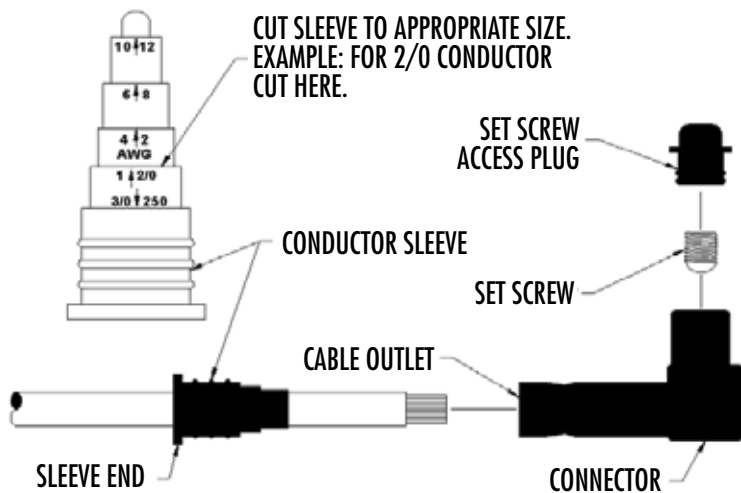


### IPLG1



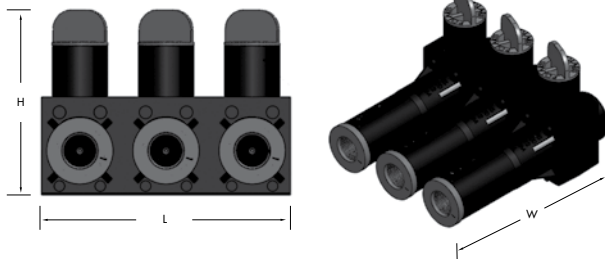
# POLARIS™ EDGE ISPB/ISPC INSTALLATION INSTRUCTIONS

1. Remove cable insulation 1-1/8" from end of conductor (insulation strip length imprinted on conductor port).
2. Wire brush bare conductor.
3. Remove conductor sleeve from connector.
4. Select and cutoff the correct step end at tip of arrow on the sleeve. Make sure to cut sleeve straight across the end of step. Discard sleeve for 300 and 350 MCM.
5. Reinsert the conductor sleeve (rocket) if required.
6. Remove set-screw access plug and loosen set-screw to allow cable insertion.
7. Insert conductor into the cable outlet or rocket until conductor hits the back of the connector and tighten set-screw to the recommended torque (Table 1).
8. Replace set-screw access plug.

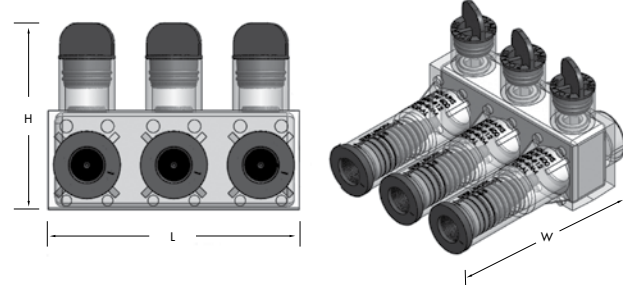


| CONDUCTOR RANGE | INCH-POUNDS |
|-----------------|-------------|
| #12 - #6        | 135         |
| #4 - 3/0        | 210         |
| 4/0 - 350       | 360         |
| 400 - 600       | 500         |

ISPB

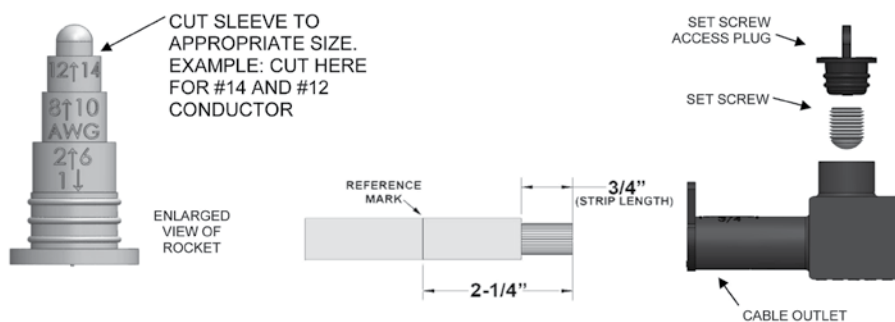


ISPC



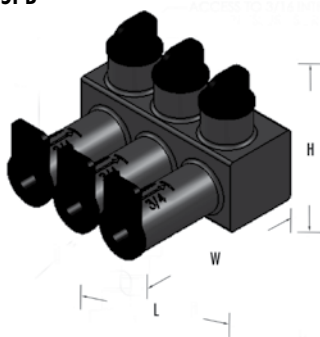
# POLARIS™ EDGE ISPB/ISPBO/ISPBS INSTALLATION INSTRUCTIONS

1. Conductor must have insulation acceptable for wet or damp locations.
2. Wipe off any foreign material (dirt, water, oil, etc.) on insulation of conductor to be spliced.
3. Mark the conductor insulation 3/4" and 2-1/4" from the end. Insulation strip length imprinted on connector.
4. Remove the conductor insulation up to the 3/4" strip length, be sure not to "score" or "nick" conductor (bare wire). Tip - For wire sizes #1 and larger bevel edge of insulation.
5. Wire brush bare conductor.
6. Remove conductor sleeve (rocket) from connector. Discard sleeve for 1/0-2/0 AWG (if discarded go to step 9).
7. Select and cutoff the step appropriate for size indicated on the sleeve. Make sure to cut sleeve straight across the end of the appropriate size step.
8. Reinsert the conductor sleeve (Rocket).
9. Remove set-screw access plug and loosen set-screw to allow conductor insertion.
10. For easier assembly lubricate the exterior of conductor insulation with the included dielectric silicone grease.
11. Insert conductor into the cable outlet or rocket until the 2-1/4" reference mark is even with end of cable outlet. The end of the conductor should hit back of connector.
12. Tighten the pressure screws to the recommended torque below. (Table 1)
13. Replace set-screw access plug.

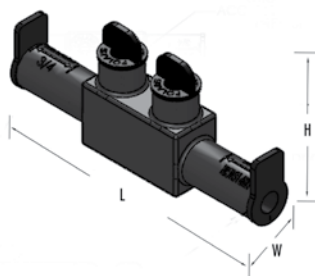


| CONDUCTOR RANGE | INCH-POUNDS |
|-----------------|-------------|
| #10 - #14       | 35          |
| #8              | 75          |
| 2/0#6           | 120         |

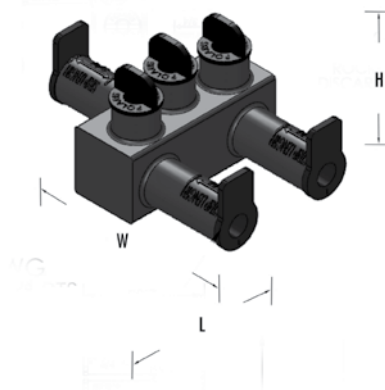
ISPB



ISPBS



ISPBO







NSI

3-35012

350KCMIL-5

CU9AL

NSI

3-35012

350KCMIL-5

CU9AL

NSI

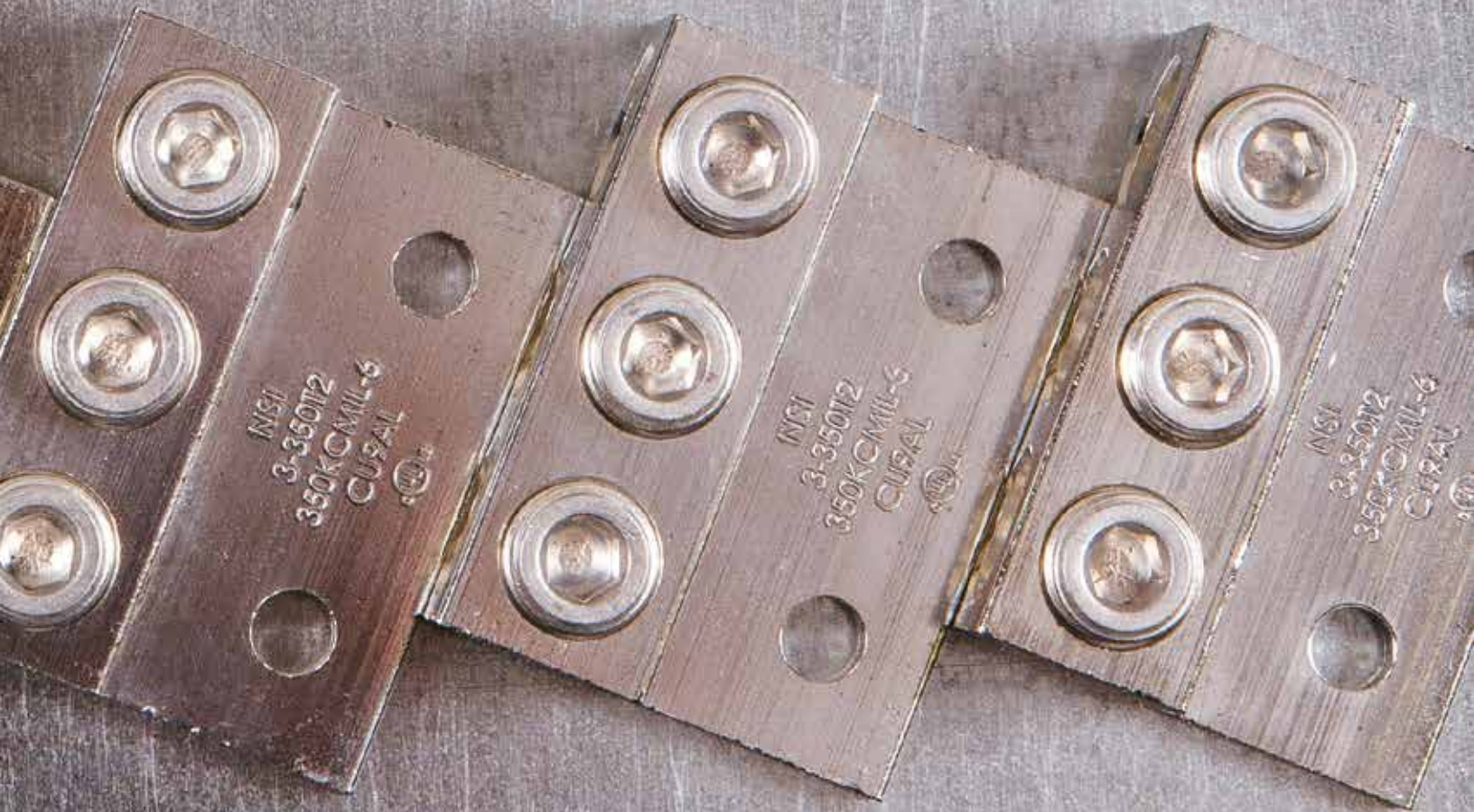
3-35012

350KCMIL-5

CU9AL



# CONNECTORS





# CONNECTORS

## Mechanical Connectors

Aluminum, Dual Rated, Single & Double Lugs  
T, 2-T Series

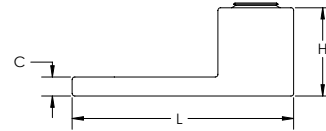
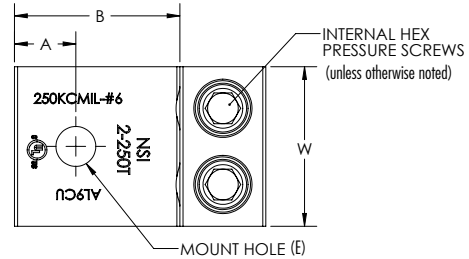


### SPECIFICATIONS

- cULus Listed Wire Connector.
- UL486A/B Listed, AL9CU
- Temperature Rating: 90 °C.
- Voltage: 600V max. (2000V ma. per UL486B).

### FEATURES

- Versatile and reusable set-screw connectors made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.



| CAT. NO. | FIG. NO. | WIRE RANGE        | MTG. BOLT SIZE | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE (IN.) | MTG. HOLE DIA.(E) (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | TANG LENGTH (A) (IN.) | TANG LENGTH (B) (IN.) | TANG THICKNESS (C) (IN.) | STD. CTN. QTY. |
|----------|----------|-------------------|----------------|-----------------------------|-----------------------|-------------------------|------------------|-----------------|------------------|-----------------------|-----------------------|--------------------------|----------------|
| 6TB      | 1        | 4-14 AWG          | 1/4            | 45                          | Slotted/Square        | 0.209                   | 0.836            | 0.325           | 0.500            | 0.234                 | 0.439                 | 0.100                    | 100            |
| 4T       | 1        | 4-14 AWG          | 1/4            | 45                          | Slotted               | 0.265                   | 1.060            | 0.500           | 0.500            | 0.250                 | 0.690                 | 0.094                    | 100            |
| 2T       | 1        | 2-14 AWG          | 1/4            | 50                          | Slotted               | 0.265                   | 1.160            | 0.500           | 0.550            | 0.310                 | 0.690                 | 0.100                    | 100            |
| 0T       | 2        | 1/0-14 AWG        | 1/4            | 120                         | 3/16                  | 0.265                   | 1.470            | 0.630           | 0.790            | 0.440                 | 0.850                 | 0.190                    | 50             |
| 2-0T     | 3        | 1/0-14 AWG        | 1/4            | 120                         | 3/16                  | 0.265                   | 1.470            | 1.130           | 0.790            | 0.440                 | 0.850                 | 0.190                    | 50             |
| 2/0T     | 2        | 2/0-14 AWG        | 1/4            | 120                         | 3/16                  | 0.265                   | 1.470            | 0.630           | 0.790            | 0.440                 | 0.850                 | 0.190                    | 50             |
| 2-2/0T   | 3        | (2) 2/0-14 AWG    | 1/4            | 120                         | 3/16                  | 0.265                   | 1.470            | 1.250           | 0.790            | 0.440                 | 0.850                 | 0.190                    | 50             |
| 3/0T     | 2        | 3/0-6 AWG         | 1/4            | 250                         | 3/16                  | 0.265                   | 1.875            | 0.700           | 0.890            | 0.500                 | 0.850                 | 0.145                    | 50             |
| 250T     | 2        | 250 MCM-6 AWG     | 5/16           | 330                         | 5/16                  | 0.328                   | 2.000            | 0.880           | 1.020            | 0.470                 | 1.130                 | 0.220                    | 24             |
| 2-250T   | 3        | (2) 250 MCM-6 AWG | 5/16           | 330                         | 5/16                  | 0.328                   | 2.560            | 1.630           | 1.020            | 0.630                 | 1.690                 | 0.220                    | 10             |
| 300T     | 2        | 300 MCM - 6 AWG   | 5/16           | 330                         | 5/16                  | 0.328                   | 2.000            | 0.880           | 1.130            | 0.500                 | 1.000                 | 0.250                    | 24             |
| 350T     | 2        | 350 MCM-6 AWG     | 3/8            | 400                         | 5/16                  | 0.406                   | 2.250            | 0.990           | 1.130            | 0.500                 | 1.250                 | 0.250                    | 20             |
| 2-350T   | 3        | (2) 350 MCM-6 AWG | 3/8            | 400                         | 5/16                  | 0.406                   | 2.880            | 1.920           | 1.130            | 0.630                 | 1.880                 | 0.250                    | 8              |
| 500T     | 2        | 500 MCM - 4 AWG   | 3/8            | 550                         | 3/8                   | 0.406                   | 2.750            | 1.200           | 1.410            | 0.630                 | 1.630                 | 0.310                    | 6              |
| 600T     | 2        | 600 MCM-2 AWG     | 3/8            | 550                         | 3/8                   | 0.406                   | 3.180            | 1.380           | 1.510            | 0.630                 | 1.930                 | 0.380                    | 6              |
| 2-600T   | 3        | (2) 600 MCM-2 AWG | 1/2            | 550                         | 3/8                   | 0.531                   | 3.180            | 2.410           | 1.510            | 0.630                 | 1.930                 | 0.380                    | 4              |
| 800T     | 2        | 800-300 MCM       | 1/2            | 550                         | 1/2                   | 0.531                   | 3.250            | 1.440           | 1.690            | 0.630                 | 1.880                 | 0.440                    | 6              |
| 2-800T   | 3        | (2) 800-300 MCM   | 1/2            | 550                         | 1/2                   | 0.531                   | 3.250            | 2.750           | 1.690            | 0.880                 | 1.880                 | 0.440                    | 2              |
| 1000T    | 2        | 1000-350 MCM      | 1/2            | 600                         | 9/16                  | 0.531                   | 3.250            | 1.690           | 1.880            | 0.750                 | 1.750                 | 0.440                    | 6              |
| 2-1000T  | 3        | (2) 1000-350 MCM  | 1/2            | 600                         | 9/16                  | 0.531                   | 3.250            | 3.190           | 1.880            | 0.880                 | 1.750                 | 0.440                    | 2              |

# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Panelboard Lugs

#### L Series

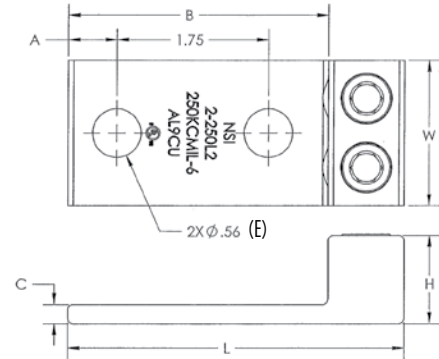
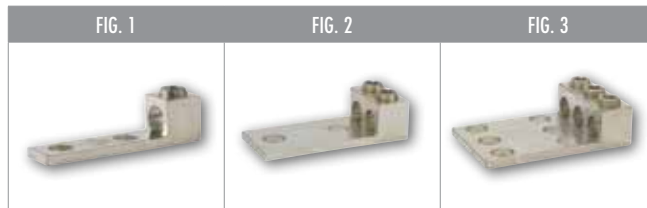


#### SPECIFICATIONS

- cULus Listed Wire Connector.
- UL486A/B Listed. AL9CU
- Temperature Rating: 90 °C.
- Voltage: 600V max. (2000V ma. per UL486B).

#### FEATURES

- Panelboard style for multi-conductor with NEMA mounting hole spacing for turn-prevent and secureness.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- All hole spacing is NEMA standard of 1.750".



| CAT. NO.    | FIG. NO. | WIRE RANGE        | MTG. BOLT SIZE (IN.) | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE (IN.) | MTG. HOLE DIA. (E) (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | TANG LENGTH (A) (IN.) | TANG LENGTH (B) (IN.) | TANG THICKNESS (C) (IN.) | STD. CTN. QTY. |    |
|-------------|----------|-------------------|----------------------|-----------------------------|-----------------------|--------------------------|------------------|-----------------|------------------|-----------------------|-----------------------|--------------------------|----------------|----|
| 250L2       | 1        | 250 MCM-6 AWG     | 1/2                  | 330                         | 5/16                  | ⬢                        | 0.560            | 4.310           | 0.880            | 1.380                 | 0.560                 | 3.090                    | 0.310          | 15 |
| 2-250L2     | 2        | (2) 250 MCM-6 AWG | 1/2                  | 330                         | 5/16                  | ⬢                        | 0.560            | 3.880           | 1.690            | 1.020                 | 0.560                 | 3.010                    | 0.220          | 6  |
| 3-250L2/L4  | 3        | (3) 250 MCM-6 AWG | 1/2                  | 330                         | 5/16                  | ⬢                        | 0.560            | 3.880           | 2.500            | 1.020                 | 0.560                 | 3.010                    | 0.220          | 3  |
| 350L2       | 1        | 350 MCM-6 AWG     | 1/2                  | 400                         | 5/16                  | ⬢                        | 0.560            | 4.310           | 0.990            | 1.380                 | 0.630                 | 3.090                    | 0.310          | 8  |
| 2-350L2     | 2        | (2) 350 MCM-6 AWG | 1/2                  | 400                         | 5/16                  | ⬢                        | 0.560            | 4.250           | 1.920            | 1.130                 | 0.630                 | 3.250                    | 0.250          | 4  |
| 3-350L2/L4  | 3        | (3) 350 MCM-6 AWG | 1/2                  | 400                         | 5/16                  | ⬢                        | 0.560            | 4.250           | 2.920            | 1.130                 | 0.630                 | 3.250                    | 0.250          | 2  |
| 600L2       | 1        | 600 MCM-2 AWG     | 1/2                  | 550                         | 3/8                   | ⬢                        | 0.560            | 4.650           | 1.380            | 1.510                 | 0.630                 | 3.400                    | 0.380          | 4  |
| 2-600L2     | 2        | (2) 600 MCM-2 AWG | 1/2                  | 550                         | 3/8                   | ⬢                        | 0.560            | 4.650           | 2.406            | 1.510                 | 0.630                 | 3.400                    | 0.380          | 3  |
| 3-600L2/L4  | 3        | (3) 600 MCM-2 AWG | 1/2                  | 550                         | 3/8                   | ⬢                        | 0.560            | 4.650           | 3.930            | 1.510                 | 0.630                 | 3.400                    | 0.380          | 2  |
| 800L2       | 1        | 800-350 MCM       | 1/2                  | 550                         | 1/2                   | ⬢                        | 0.560            | 4.750           | 1.440            | 1.690                 | 0.630                 | 3.380                    | 0.440          | 4  |
| 2-800L2     | 2        | (2) 800-350 MCM   | 1/2                  | 550                         | 1/2                   | ⬢                        | 0.560            | 4.750           | 2.750            | 1.690                 | 0.630                 | 3.380                    | 0.440          | 2  |
| 3-800L2/L4  | 3        | (3) 800-350 MCM   | 1/2                  | 550                         | 1/2                   | ⬢                        | 0.560            | 4.750           | 4.060            | 1.690                 | 0.630                 | 3.380                    | 0.440          | 2  |
| 1000L2      | 1        | 1000-500 MCM      | 1/2                  | 600                         | 9/16                  | ⬢                        | 0.560            | 4.940           | 1.690            | 1.880                 | 0.630                 | 3.440                    | 0.440          | 4  |
| 2-1000L2    | 2        | (2) 1000-500 MCM  | 1/2                  | 600                         | 1/2                   | ⬢                        | 0.560            | 4.940           | 3.190            | 1.880                 | 0.630                 | 3.440                    | 0.440          | 2  |
| 3-1000L2/L4 | 3        | (3) 1000-500 MCM  | 1/2                  | 600                         | 9/16                  | ⬢                        | 0.560            | 4.940           | 4.690            | 1.880                 | 0.630                 | 3.440                    | 0.440          | 2  |

# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Panelboard Lugs L4, LL4, LL2 Series

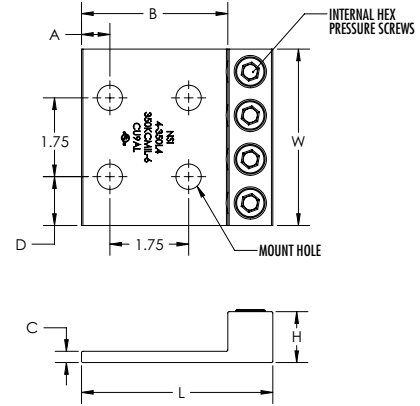


#### SPECIFICATIONS

- UL Listed for Wire Connector E1 55027.
- UL486A/B Listed. AL9CU
- Temperature Rating: 90 °C.
- Voltage: 600V max. (2000V ma. per UL486B).

#### FEATURES

- Large size set-screw connectors with multiple mounting, NEMA spaced holes for a secure, turn-prevent connection.
- Made of 6061T-6 aluminum alloy.
- Tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- All hole spacing is NEMA standard of 1.758".



| CAT. NO.                | FIG. NO. | WIRE RANGE    | MTG. BOLT SIZE (IN.) | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE (IN.) | MTG. HOLE DIA. (E) (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | END OF CONN. TO CTR. HOLE (A) (IN.) | TANG LENGTH (B) (IN.) | TANG THICKNESS (C) (IN.) | STD. CTN. QTY. |
|-------------------------|----------|---------------|----------------------|-----------------------------|-----------------------|--------------------------|------------------|-----------------|------------------|-------------------------------------|-----------------------|--------------------------|----------------|
| 4-250L4                 | 1        | 250 MCM-6 AWG | 1/2                  | 330                         | 5/16                  | 0.560                    | 3.880            | 3.300           | 1.020            | 0.560                               | 3.010                 | 0.220                    | 3              |
| 4-350L4                 | 1        | 350 MCM-6 AWG | 1/2                  | 400                         | 5/16                  | 0.560                    | 4.250            | 3.920           | 1.130            | 0.630                               | 3.250                 | 0.250                    | 2              |
| 4-600L4                 | 1        | 600 MCM-2 AWG | 1/2                  | 550                         | 3/8                   | 0.560                    | 4.650            | 5.000           | 1.510            | 0.630                               | 3.400                 | 0.380                    | 2              |
| 600LL2                  | 2        | 600 MCM-2 AWG | 1/2                  | 550                         | 3/8                   | 0.560                    | 5.500            | 1.380           | 1.510            | 0.630                               | 3.250                 | 0.380                    | 4              |
| 3-600LL4                | 3        | 600 MCM-2 AWG | 1/2                  | 550                         | 3/8                   | 0.560                    | 5.500            | 3.930           | 1.510            | 0.630                               | 3.250                 | 0.380                    | 2              |
| 4-600LL4                | 4        | 600 MCM-2 AWG | 1/2                  | 550                         | 3/8                   | 0.560                    | 5.500            | 5.000           | 1.510            | 0.630                               | 3.250                 | 0.380                    | 2              |
| 4-800L4                 | 1        | 800-350 MCM   | 1/2                  | 550                         | 1/2                   | 0.560                    | 4.750            | 5.380           | 1.690            | 0.630                               | 3.380                 | 0.440                    | 2              |
| 800LL2                  | 2        | 800-350 MCM   | 1/2                  | 550                         | 1/2                   | 0.560                    | 5.750            | 1.440           | 1.690            | 0.630                               | 3.440                 | 0.440                    | 4              |
| 3-800LL4                | 3        | 800-350 MCM   | 1/2                  | 550                         | 1/2                   | 0.560                    | 5.750            | 4.060           | 1.690            | 0.630                               | 3.380                 | 0.440                    | 2              |
| 4-800LL4                | 4        | 800-350 MCM   | 1/2                  | 550                         | 1/2                   | 0.560                    | 5.750            | 5.380           | 1.690            | 0.630                               | 3.440                 | 0.440                    | 2              |
| 4-1000L4                | 1        | 1000-500 MCM  | 1/2                  | 600                         | 9/16                  | 0.560                    | 4.940            | 6.190           | 1.880            | 0.630                               | 3.440                 | 0.440                    | 2              |
| 1000LL2                 | 2        | 1000-500 MCM  | 1/2                  | 600                         | 9/16                  | 0.560                    | 6.190            | 1.690           | 1.880            | 0.630                               | 3.630                 | 0.440                    | 4              |
| 3-1000LL4               | 3        | 1000-500 MCM  | 1/2                  | 600                         | 9/16                  | 0.560                    | 6.190            | 4.690           | 1.880            | 0.630                               | 3.440                 | 0.440                    | 2              |
| 4-1000LL4               | 4        | 1000-500 MCM  | 1/2                  | 600                         | 9/16                  | 0.560                    | 6.180            | 6.190           | 1.880            | 0.630                               | 3.630                 | 0.440                    | 2              |
| 1500LL2<br>(Not UL/CSA) | 2        | 1500-1000 MCM | 1/2                  | -                           | 9/16                  | 0.560                    | 6.625            | 2.000           | 1.975            | 0.650                               | 3.175                 | 0.750                    | 4              |



# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Stacked Lugs T2 Series

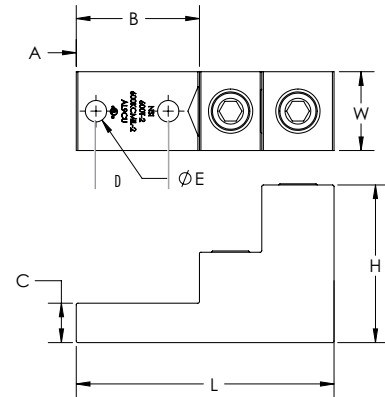


#### SPECIFICATIONS

- UL Listed for Wire Connector E155027.
- UL486A/B Listed. AL9CU
- Temperature Rating: 90 °C.
- Voltage: 600V max. (2000V ma. per UL486B).

#### FEATURES

- Large size set-screw connectors with wire holes stacked on top of each other to minimize the width of the connector.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.



| CAT. NO. | FIG. NO. | WIRE RANGE        | MTG. BOLT SPACING (D) | MTG. BOLT SIZE | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE (IN.) | MTG. HOLE DIA. (E) (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | END OF CONN. TO CTR. HOLE (A) (IN.) | TANG LENGTH (B) (IN.) | TANG THICKNESS (C) (IN.) | STD. CTN. QTY. |
|----------|----------|-------------------|-----------------------|----------------|-----------------------------|-----------------------|--------------------------|------------------|-----------------|------------------|-------------------------------------|-----------------------|--------------------------|----------------|
| 300T-2   | 1        | (2) 300 MCM-6 AWG | —                     | 5/16"          | 330                         | 5/16                  | 0.330                    | 3.000            | 1.000           | 2.000            | 0.470                               | 1.000                 | 0.310                    | 10             |
| 350T-2   | 2        | (2) 350 MCM-6 AWG | 0.600                 | 5/16"          | 400                         | 5/16                  | 0.330                    | 3.560            | 1.060           | 2.000            | 0.470                               | 1.560                 | 0.250                    | 10             |
| 600T-2   | 2        | (2) 600 MCM-2 AWG | 1.380                 | 3/8            | 550                         | 3/8                   | 0.410                    | 4.910            | 1.500           | 3.000            | 0.380                               | 2.340                 | 0.750                    | 2              |
| 600T-3   | 3        | (3) 600 MCM-2 AWG | 1.380                 | 3/8            | 550                         | 3/8                   | 0.410                    | 4.910            | 2.500           | 3.000            | 0.380                               | 2.340                 | 0.750                    | 2              |
| 600T-4   | 4        | (4) 600 MCM-2 AWG | 1.380                 | 3/8            | 550                         | 3/8                   | 0.410                    | 4.910            | 2.500           | 3.000            | 0.380                               | 2.340                 | 0.750                    | 2              |
| 800T-2   | 2        | (2) 800-300 MCM   | 1.380                 | 3/8            | 550                         | 3/8                   | 0.410                    | 4.910            | 1.500           | 3.000            | 0.380                               | 2.340                 | 0.750                    | 2              |
| 800T-3   | 3        | (3) 800-300 MCM   | 1.380                 | 3/8            | 550                         | 1/2                   | 0.410                    | 4.910            | 2.630           | 3.000            | 0.380                               | 2.340                 | 0.750                    | 2              |
| 800T-4   | 4        | (4) 800-300 MCM   | 1.380                 | 3/8            | 550                         | 1/2                   | 0.410                    | 4.910            | 2.630           | 3.000            | 0.380                               | 2.340                 | 0.750                    | 2              |

# CONNECTORS

## Mechanical Connectors

Aluminum, Dual Rated, Splicer & Reducer  
SR Series

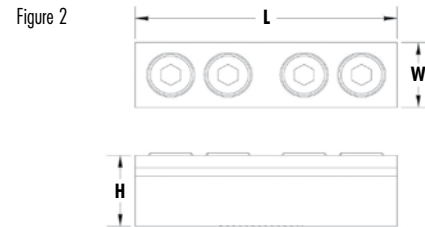
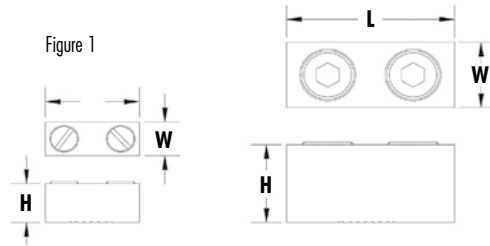


### SPECIFICATIONS

- UL Listed for Wire Connector.
- UL486A/B Listed. AL9CU
- Temperature Rating: 90 °C.
- Voltage: 600V max. (2000V ma. per UL486B).

### FEATURES

- For splicing two copper or aluminum wires of equal or different sizes.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.



| CAT. NO. | FIG. NO. | WIRE RANGE      | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE (IN.) |  | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|----------|----------|-----------------|-----------------------------|-----------------------|--|------------------|-----------------|------------------|----------------|
| 2SR      | 1        | 2-14 AWG        | 50                          | Slotted               |  | 1.594            | 0.443           | 0.550            | 50             |
| 1/0SR    | 1        | 1/0-14 AWG      | 120                         | Slotted               |  | 1.500            | 0.530           | 0.630            | 25             |
| 4/0SR    | 1        | 4/0-6 AWG       | 250                         | 5/16                  |  | 2.310            | 0.812           | 1.000            | 24             |
| 250SR    | 2        | 250 MCM-6 AWG   | 330                         | 5/16                  |  | 4.094            | 0.812           | 1.000            | 10             |
| 350SR    | 2        | 350 MCM-6 AWG   | 400                         | 3/8                   |  | 4.190            | 1.130           | 1.190            | 8              |
| 500SR    | 2        | 500 MCM-3/0 AWG | 550                         | 3/8                   |  | 5.000            | 1.380           | 1.500            | 3              |
| 750SR    | 2        | 750-250 MCM     | 550                         | 3/8                   |  | 6.250            | 1.630           | 1.750            | 3              |

# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Single & Double "Turn-Prevent" TP Series

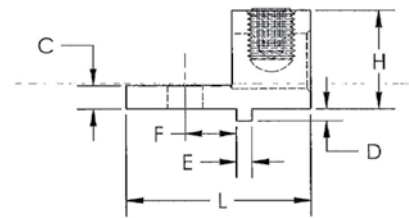
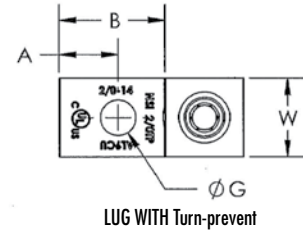


#### SPECIFICATIONS

- UL Listed for Wire Connector.
- UL486A/B Listed. AL9CU.
- Temperature Rating: Single/Double TP Lugs 90 °C.
- Voltage: 600V (2000V max. per UL486B).

#### FEATURES

- Large size set-screw connectors with wire holes stacked on top of each other to minimize the width of the connector.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Turn prevent node located on bottom prevents rotation of lug.



| CAT. NO. | FIG. NO. | WIRE RANGE        | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | TANG LENGTH (A) (IN.) | TANG LENGTH (B) (IN.) | TANG THICKNESS (C) (IN.) | TURN PVT. LENGTH (D) (IN.) | TURN PVT. THICKNESS (E) (IN.) | MTG. HOLE TO TURN PVT. (F) (IN.) | HOLE DIA. (IN.) | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE (IN.) | MTG. BOLT SIZE (IN.) | STD. CTN. QTY. |
|----------|----------|-------------------|------------------|-----------------|------------------|-----------------------|-----------------------|--------------------------|----------------------------|-------------------------------|----------------------------------|-----------------|-----------------------------|-----------------------|----------------------|----------------|
| 2/0TP    | 1        | 2/0-14 AWG        | 1.470            | 0.880           | 1.130            | 0.470                 | 0.840                 | 0.190                    | 0.090                      | 0.130                         | 0.410                            | 0.280           | 120                         | 3/16                  | 1/4                  | 50             |
| 300TP    | 1        | 300 MCM-6 AWG     | 2.000            | 0.990           | 1.130            | 0.380                 | 1.000                 | 0.250                    | 0.090                      | 0.190                         | 0.490                            | 0.440           | 330                         | 5/16                  | 7/16                 | 24             |
| 350TP    | 1        | 350 MCM-6 AWG     | 2.250            | 0.990           | 1.130            | 0.500                 | 1.250                 | 0.250                    | 0.090                      | 0.190                         | 0.630                            | 0.340           | 400                         | 5/16                  | 5/16                 | 20             |
| 2-350TP  | 2        | (2) 350 MCM-6 AWG | 2.250            | 1.920           | 1.130            | 0.500                 | 1.125                 | 0.250                    | 0.090                      | 0.187                         | 0.630                            | 0.406           | 400                         | 5/8                   | 3/8                  | 8              |
| 600TP    | 1        | 600 MCM-2 AWG     | 3.180            | 1.380           | 1.510            | 0.880                 | 1.930                 | 0.380                    | 0.090                      | 0.190                         | 0.630                            | 0.530           | 550                         | 3/8                   | 1/2                  | 6              |
| 2-600TP  | 2        | (2) 600 MCM-2 AWG | 3.180            | 2.410           | 1.510            | 0.880                 | 1.930                 | 0.380                    | 0.130                      | 0.190                         | 0.630                            | 0.530           | 550                         | 3/8                   | 1/2                  | 4              |

# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Box Turn-Prevent Lugs BTP Series

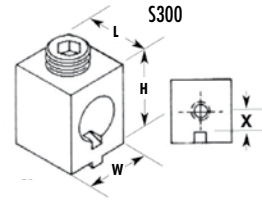
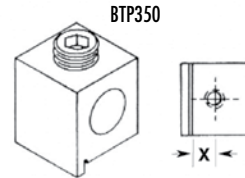
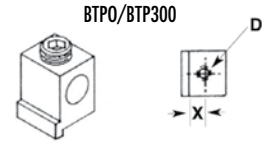


#### SPECIFICATIONS

- CSA 70142.
- UL486A/B Listed, AL9CU.
- Temperature Rating: 75 °C.
- Voltage: 600V max. (2000V ma. per UL486B).

#### FEATURES

- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Design includes threaded mounting hole.
- Turn prevent node located on bottom prevents rotation of lug.

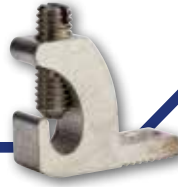


| CAT. NO. | FIG. NO. | WIRE RANGE    | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE (IN.) | MTG. BOLT SIZE | WIDTH (W) | HEIGHT (H) | LENGTH (L) | MTG. HOLE DIA. (D) | TURN PVT. TO MTG. HOLE (X) | STD. CTN. QTY. |
|----------|----------|---------------|-----------------------------|-----------------------|----------------|-----------|------------|------------|--------------------|----------------------------|----------------|
| BTP0     | 1        | 0-10 AWG      | 120                         | 5/16                  | # 10           | 0.660     | 0.830      | 0.620      | # 10               | 0.230                      | 25             |
| BTP300   | 2        | 300 MCM-6 AWG | 325                         | 3/8                   | 1/4            | 0.970     | 1.160      | 0.980      | 0.250              | 0.385                      | 40             |
| S300     | 3        | 300 MCM-6 AWG | 325                         | 3/8                   | 1/4            | 0.880     | 1.090      | 0.880      | 0.250              | 0.312                      | 25             |
| BTP350   | 4        | 350 MCM-6 AWG | 375                         | 3/8                   | 1/4            | 0.880     | 1.100      | 0.880      | 0.250              | 0.440                      | 48             |

# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Lay-In GLA Series

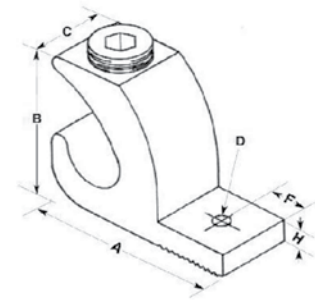
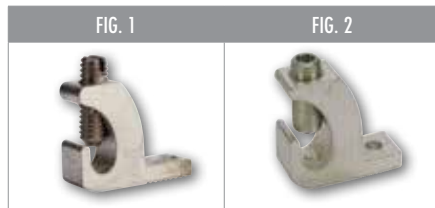


#### SPECIFICATIONS

- UL Listed/cULus Listed for Wire Connector.
- UL486A/B Listed. AL9CU.
- CSA 701642 (GLA-250).
- **Temperature Rating:** 90 °C.
- **Voltage:** 600V (2000V max. per UL486B).
- \*UL467 Listed Grounding & Bonding Equipment.

#### FEATURES

- Lay-in connectors offer the ultimate in flexibility.
- Excellent for grounding and continuous loop applications.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Stainless Steel Screw (GLA-4 only).



| CAT. NO. | CERTIFICATION        | FIG. NO. | WIRE RANGE    | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE (IN.) | MTG. BOLT SIZE | LENGTH (A) | HEIGHT (B) | WIDTH (C) | MTG. HOLE DIA. (D) | TANG LENGTH (F) | TANG THICKNESS (H) | STD. CTN. QTY. |     |
|----------|----------------------|----------|---------------|-----------------------------|-----------------------|----------------|------------|------------|-----------|--------------------|-----------------|--------------------|----------------|-----|
| GLA-4    | cULus                | 1        | 4-14 AWG      | 45                          | Slotted               | ⬢              | 0.187      | 1.070      | 0.750     | 0.380              | 0.218           | 0.190              | 0.150          | 100 |
| GLA-0    | cULus                | 1        | 1/0-8 AWG     | 120                         | Slotted               | ⬢              | 0.250      | 1.500      | 1.100     | 0.600              | 0.272           | 0.300              | 0.220          | 40  |
| GLA-000  | cULus                | 1        | 3/0-6 AWG     | 250                         | 1/4                   | ⬢              | 0.375      | 2.000      | 1.500     | 0.800              | 0.330           | 0.400              | 0.300          | 20  |
| GLA-250  | UL Recognized<br>CSA | 2        | 250 MCM-6 AWG | 330                         | 1/4                   | ⬢              | 0.375      | 2.200      | 1.700     | 0.800              | 0.330           | 0.400              | 0.300          | 20  |

# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Dual Range Lugs BS Series

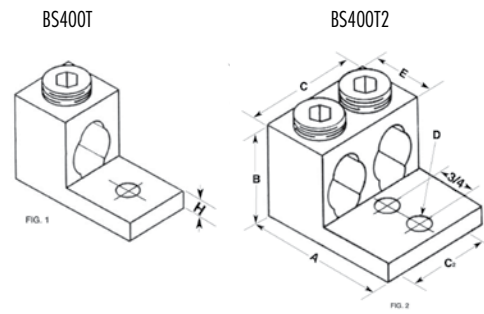


#### SPECIFICATIONS

- CSA 70142.
- UL Listed Wire Connector.
- UL486A/B Listed. AL9CU.
- Temperature Rating: 90 °C.
- Voltage: 600V max. (2000V ma. per UL486B).

#### FEATURES

- Set-screw connectors that will accept either one or two wires.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.



| CAT. NO. | FIG. NO. | WIRE RANGE          | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE (IN.) | MTG. BOLT SIZE (IN.) | LENGTH (A) (IN.) | HEIGHT (B) (IN.) | WIDTH (C) (IN.) | MTG. HOLE DIA. (D) (IN.) | TANG LENGTH (F) (IN.) | TANG THICKNESS (H) (IN.) | STD. CTN. QTY. |   |
|----------|----------|---------------------|-----------------------------|-----------------------|----------------------|------------------|------------------|-----------------|--------------------------|-----------------------|--------------------------|----------------|---|
| BS400T   | 1        | (1) 600 MCM-4 AWG   | 500                         | 3/8                   | ⬡                    | 0.562            | 2.810            | 1.810           | 1.380                    | 0.625                 | .725                     | 0.312          | 6 |
| BS400T   | 1        | (2) 250 MCM-1/0 AWG | 500                         | 3/8                   | ⬡                    | 0.562            | 2.810            | 1.810           | 1.380                    | 0.625                 | .725                     | 0.312          | 6 |
| BS400T2  | 2        | (2) 250 MCM-1/0 AWG | 500                         | 3/8                   | ⬡                    | 0.250            | 3.812            | 2.000           | 2.468                    | 0.281                 | .325                     | 0.375          | 4 |
| BS400T2  | 2        | (4) 250 MCM-1/0 AWG | 500                         | 3/8                   | ⬡                    | 0.250            | 3.812            | 2.000           | 2.468                    | 0.281                 | .325                     | 0.375          | 4 |



# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated ,T-Tap Connector & Covers GP, GC Series

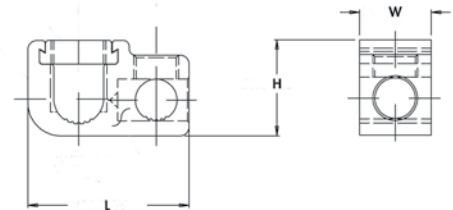


#### SPECIFICATIONS

- UL Listed/cULus Listed for Wire Connector E155274.
- UL486A/B Listed. AL9CU
- CSA 701642.
- Temperature Rating: 90 °C.
- Voltage: 600V.

#### FEATURES

- Excellent for tapping of main conductor due to lay-in feature.
- Perpendicular tap allows for parallel or "T" tap configuration.
- Flexible cover allows for either parallel or "T" tap wire entry.
- Secure snap cover eliminates need for taping.
- Electro-tin plated for low contact resistance.



| CAT. NO.   | FIG. NO. | STYLE                       | COLOR CODE | MAIN (RUN) WIRE RANGE | TAP WIRE RANGE | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|------------|----------|-----------------------------|------------|-----------------------|----------------|-----------------------------|-----------------------|------------------|-----------------|------------------|----------------|
| GP-2       | 1        | Parallel "T" Tap            | —          | 2-12 STR              | 4-14 STR       | 50                          | Slotted               | 1.390            | 0.630           | 0.880            | 25             |
| GP-0       | 1        | Parallel "T" Tap            | —          | 1/0-2 AWG             | 1/0-14 AWG     | 120                         | 0.187                 | 1.750            | 0.750           | 1.000            | 12             |
| GP-250-0   | 1        | Parallel "T" Tap            | —          | 250 MCM-1/0 AWG       | 1/0-14 AWG     | 275,120                     | 0.187, 0.312          | 2.030            | 1.060           | 1.310            | 12             |
| GP-250     | 1        | Parallel "T" Tap            | —          | 250 MCM-1/0 AWG       | 250 MCM-6 AWG  | 275                         | 0.312                 | 2.280            | 1.060           | 1.310            | 12             |
| GP-350     | 1        | Parallel "T" Tap            | —          | 350 MCM-4/0 AWG       | 350 MCM-6 AWG  | 275                         | 0.312                 | 2.560            | 1.250           | 1.440            | 6              |
| GP-500     | 1        | Parallel "T" Tap            | —          | 500-350 MCM           | 500-2 MCM      | 375                         | 0.375                 | 3.130            | 1.380           | 1.750            | 6              |
| GP-750     | 1        | Parallel "T" Tap            | —          | 750-500 MCM           | 500-2 MCM      | 375                         | 0.375                 | 3.380            | 1.500           | 2.000            | 3              |
| GC-2       | 2        | Insulated Cover             | Yellow     | —                     | —              | —                           | —                     | 2.250            | 1.370           | 1.110            | 12             |
| GC-0       | 2        | Insulated Cover             | Grey       | —                     | —              | —                           | —                     | 2.610            | 2.170           | 1.260            | 6              |
| GC-250     | 2        | Insulated Cover             | Red        | —                     | —              | —                           | —                     | 3.440            | 3.180           | 1.630            | 3              |
| GC-350     | 2        | Insulated Cover             | Yellow     | —                     | —              | —                           | —                     | 3.760            | 3.290           | 1.760            | 3              |
| GC-500     | 2        | Insulated Cover             | Blue       | —                     | —              | —                           | —                     | 4.890            | 3.340           | 2.120            | 3              |
| GC-750     | 2        | Insulated Cover             | Orange     | —                     | —              | —                           | —                     | 4.550            | 3.450           | 2.340            | 3              |
| GP-2WC     | 3        | Parallel "T" Tap with Cover | Yellow     | 2-12 STR              | 4-14 STR       | 50                          | Slotted               | 2.250            | 1.370           | 1.110            | 12             |
| GP-0WC     | 3        | Parallel "T" Tap with Cover | Gray       | 1/0-2 AWG             | 1/0-14 AWG     | 120                         | 0.187                 | 2.610            | 2.170           | 1.260            | 10             |
| GP-250-0WC | 3        | Parallel "T" Tap with Cover | Red        | 250 MCM-1/0 AWG       | 1/0-14 AWG     | 120, 275                    | 0.187, 0.312          | 3.440            | 3.180           | 1.630            | 5              |
| GP-250WC   | 3        | Parallel "T" Tap with Cover | Red        | 250 MCM-1/0 AWG       | 250 MCM-6 AWG  | 275                         | 0.312                 | 3.440            | 3.180           | 1.630            | 5              |
| GP-350WC   | 3        | Parallel "T" Tap with Cover | Yellow     | 350 MCM-4/0 AWG       | 350 MCM-6 AWG  | 275                         | 0.312                 | 3.760            | 3.290           | 1.760            | 6              |
| GP-500WC   | 3        | Parallel "T" Tap with Cover | Blue       | 500-350 MCM           | 500-2 MCM      | 375                         | 0.375                 | 4.890            | 3.340           | 2.120            | 2              |
| GP-750WC   | 3        | Parallel "T" Tap with Cover | Orange     | 750-500 MCM           | 500-2 MCM      | 375                         | 0.375                 | 4.550            | 3.450           | 2.340            | 2              |

# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Heavy Duty Transformer Lugs LL Series

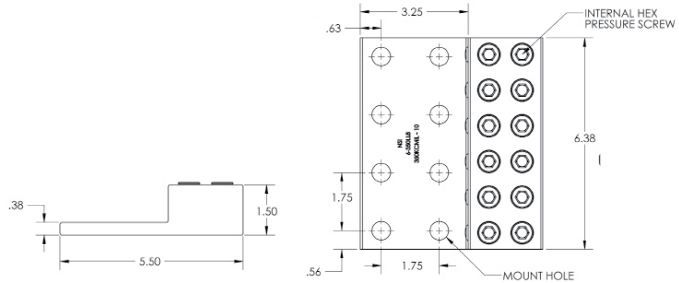


#### SPECIFICATIONS

- Meets or exceeds ANSI C119.4 Class A. AL9CU
- Temperature Rating: 90 °C. AL9CU.
- Voltage: 600V max.

#### FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Two set-screws per wire hole ensure an exceptional connection.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Mounting hole spacing is NEMA 1 3/4" spacing.



| CAT. NO.   | FIG. NO. | WIRE RANGE    | MAX TORQUE VALUE (IN./LBS.) | NO. OF CONDUCTORS | NO. OF MTG. HOLES | MTG. HOLE DIA. (IN.) | MTG. HOLE SPACING (IN.) | HEX WRENCH SIZE (IN.) | BOLT SIZE (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|------------|----------|---------------|-----------------------------|-------------------|-------------------|----------------------|-------------------------|-----------------------|-----------------|------------------|-----------------|------------------|----------------|
| 350LL2     | 1        | 350 MCM-6 AWG | 400                         | 1                 | 2                 | 0.563                | 1.750                   | 3/8                   | 1/2             | 5.310            | 1.130           | 1.380            | 1              |
| 2-350LL4   | 2        | 350 MCM-6 AWG | 400                         | 2                 | 4                 | 0.563                | 1.750                   | 3/8                   | 1/2             | 5.310            | 2.000           | 1.380            | 1              |
| 3-350LL4   | 3        | 350 MCM-6 AWG | 400                         | 3                 | 4                 | 0.563                | 1.750                   | 3/8                   | 1/2             | 5.310            | 2.940           | 1.380            | 1              |
| 4-350LL6   | 4        | 350 MCM-6 AWG | 400                         | 4                 | 6                 | 0.563                | 1.750                   | 3/8                   | 1/2             | 5.310            | 3.870           | 1.380            | 1              |
| 6-350LL8   | 5        | 350 MCM-6 AWG | 400                         | 6                 | 8                 | 0.563                | 1.750                   | 3/8                   | 1/2             | 5.310            | 5.750           | 1.380            | 1              |
| 8-350LL8   | 6        | 350 MCM-6 AWG | 400                         | 8                 | 8                 | 0.563                | 1.750                   | 3/8                   | 1/2             | 5.310            | 7.620           | 1.380            | 1              |
| 8-350LL10  | 6        | 350 MCM-6 AWG | 400                         | 8                 | 10                | 0.563                | 1.750                   | 3/8                   | 1/2             | 5.310            | 7.620           | 1.380            | 1              |
| 2-600LL4   | 2        | 600 MCM-2 AWG | 550                         | 2                 | 4                 | 0.563                | 1.750                   | 3/8                   | 1/2             | 5.875            | 2.410           | 1.562            | 1              |
| 4-600LL6   | 4        | 600 MCM-2 AWG | 550                         | 4                 | 6                 | 0.563                | 1.750                   | 3/8                   | 1/2             | 5.875            | 4.780           | 1.562            | 1              |
| 6-600LL6   | 6        | 600 MCM-2 AWG | 550                         | 6                 | 6                 | 0.563                | 1.750                   | 3/8                   | 1/2             | 8.750            | 5.750           | 1.750            | 1              |
| 2-800LL4   | 2        | 800-300 MCM   | 550                         | 2                 | 4                 | 0.563                | 1.750                   | 1/2                   | 1/2             | 6.188            | 2.737           | 1.875            | 1              |
| 4-800LL8   | 4        | 800-300 MCM   | 550                         | 4                 | 8                 | 0.563                | 1.750                   | 1/2                   | 1/2             | 6.188            | 5.487           | 1.875            | 1              |
| 2-1000LL4  | 2        | 800-300 MCM   | 550                         | 2                 | 4                 | 0.563                | 1.750                   | 1/2                   | 1/2             | 6.188            | 2.982           | 1.875            | 1              |
| 4-1000LL8  | 4        | 1000-500 MCM  | 600                         | 4                 | 8                 | 0.563                | 1.750                   | 1/2                   | 1/2             | 6.188            | 5.982           | 1.875            | 1              |
| 8-1000LL12 | 6        | 1000-500 MCM  | 600                         | 8                 | 12                | 0.563                | 1.750                   | 1/2                   | 1/2             | 6.188            | 11.982          | 1.875            | 1              |

# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Transformer Lugs

T, L Series

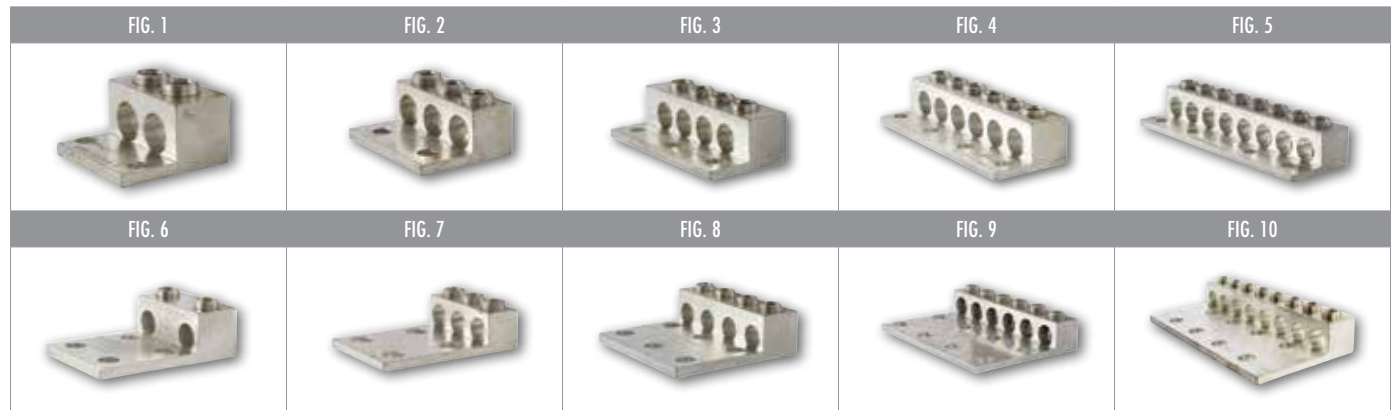


#### SPECIFICATIONS

- Meets or exceeds ANSI C119.4 Class A . AL9CU
- Temperature Rating: 90 °C. AL9CU.
- Voltage: 600V max.

#### FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Two set-screws per wire hole ensure an exceptional connection.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.
- Mounting hole spacing is NEMA 1 3/4".



| CAT. NO. | FIG. NO. | WIRE RANGE    | MAX TORQUE VALUE (IN./LBS.) | NO. OF CONDUCTORS | NO. OF MTG. HOLES (IN.) | MTG. HOLE DIA. (IN.) | MTG. HOLE SPACING (IN.) | HEX WRENCH SIZE (IN.) | MTG. BOLT SIZE (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. PKG. QTY. |
|----------|----------|---------------|-----------------------------|-------------------|-------------------------|----------------------|-------------------------|-----------------------|----------------------|------------------|-----------------|------------------|----------------|
| 2-350T2  | 1        | 350 MCM-6 AWG | 400                         | 2                 | 2                       | 0.375                | 1.750                   | 3/8"                  | 5/16"                | 2.250            | 1.940           | 1.250            | 1              |
| 3-350T2  | 2        | 350 MCM-6 AWG | 400                         | 3                 | 2                       | 0.375                | 1.750                   | 3/8"                  | 5/16"                | 2.250            | 2.840           | 1.250            | 1              |
| 4-350T3  | 3        | 350 MCM-6 AWG | 400                         | 4                 | 3                       | 0.375                | 1.750                   | 3/8"                  | 5/16"                | 2.250            | 3.750           | 1.250            | 1              |
| 6-350T4  | 4        | 350 MCM-6 AWG | 400                         | 6                 | 4                       | 0.375                | 1.750                   | 3/8"                  | 5/16"                | 2.250            | 4.660           | 1.250            | 1              |
| 8-350T4  | 5        | 350 MCM-6 AWG | 400                         | 8                 | 4                       | 0.375                | 1.750                   | 3/8"                  | 5/16"                | 2.250            | 5.560           | 1.250            | 1              |
| 2-350L4  | 6        | 350 MCM-6 AWG | 400                         | 2                 | 4                       | 0.563                | 1.750                   | 3/8"                  | 1/2"                 | 4.310            | 2.000           | 1.380            | 1              |
| 3-350L4  | 7        | 350 MCM-6 AWG | 400                         | 3                 | 4                       | 0.563                | 1.750                   | 3/8"                  | 1/2"                 | 4.310            | 2.940           | 1.380            | 1              |
| 4-350L6  | 8        | 350 MCM-6 AWG | 400                         | 4                 | 6                       | 0.563                | 1.750                   | 3/8"                  | 1/2"                 | 4.310            | 3.870           | 1.380            | 1              |
| 6-350L8  | 9        | 350 MCM-6 AWG | 400                         | 6                 | 8                       | 0.563                | 1.750                   | 3/8"                  | 1/2"                 | 4.310            | 5.750           | 1.380            | 1              |
| 8-350L8  | 10       | 350 MCM-6 AWG | 400                         | 8                 | 8                       | 0.563                | 1.750                   | 3/8"                  | 1/2"                 | 4.310            | 7.620           | 1.380            | 1              |
| 2-600L4  | 6        | 600 MCM-2 AWG | 550                         | 2                 | 4                       | 0.563                | 1.750                   | 3/8"                  | 1/2"                 | 4.500            | 2.410           | 1.630            | 1              |
| 3-600L4  | 7        | 600 MCM-2 AWG | 550                         | 3                 | 4                       | 0.563                | 1.750                   | 3/8"                  | 1/2"                 | 4.500            | 3.590           | 1.630            | 1              |
| 4-600L6  | 8        | 600 MCM-2 AWG | 550                         | 4                 | 6                       | 0.563                | 1.750                   | 3/8"                  | 1/2"                 | 4.500            | 4.780           | 1.630            | 1              |
| 6-600L8  | 9        | 600 MCM-2 AWG | 550                         | 6                 | 8                       | 0.563                | 1.750                   | 3/8"                  | 1/2"                 | 4.500            | 7.160           | 1.630            | 1              |

# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Transformer Stud Connectors

#### STL Series

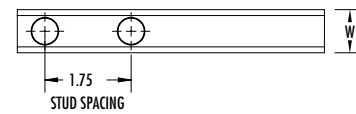
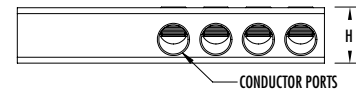
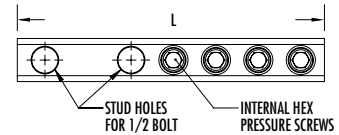


#### SPECIFICATIONS

- Temperature Rating: 90 °C. AL9CU
- Voltage: 600V max.

#### FEATURES

- Made from 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- Two NEMA 1/2" holes for easy attachment.



| CAT. NO. | FIG. NO. | WIRE RANGE    | NO. OF CONDUCTORS | MTG. HOLE DIA. (IN.) | MTG. HOLE SPACING (IN.) | MAX TORQUE VALUE (IN./LBS.) | MTG. BOLT SIZE (IN.) | HEX WRENCH SIZE (IN.) | HEX WRENCH SIZE (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|----------|----------|---------------|-------------------|----------------------|-------------------------|-----------------------------|----------------------|-----------------------|-----------------------|------------------|-----------------|------------------|----------------|
| STL250-4 | 1        | 250 MCM-6 AWG | 4                 | 0.560                | 1.750                   | 360                         | 1/2                  | 5/16                  | 5/16                  | 6.240            | 0.875           | 1.125            | 6              |
| STL250-6 | 2        | 250 MCM-6 AWG | 6                 | 0.560                | 1.750                   | 360                         | 1/2                  | 5/16                  | 5/16                  | 7.960            | 0.875           | 1.125            | 6              |
| STL250-8 | 3        | 250 MCM-6 AWG | 8                 | 0.560                | 1.750                   | 360                         | 1/2                  | 5/16                  | 5/16                  | 9.680            | 0.875           | 1.125            | 6              |
| STL350-4 | 1        | 350 MCM-6 AWG | 4                 | 0.560                | 1.750                   | 400                         | 1/2                  | 5/16                  | 5/16                  | 6.960            | 1.000           | 1.440            | 6              |
| STL350-6 | 2        | 350 MCM-6 AWG | 6                 | 0.560                | 1.750                   | 400                         | 1/2                  | 5/16                  | 5/16                  | 9.060            | 1.000           | 1.440            | 6              |
| STL350-8 | 3        | 350 MCM-6 AWG | 8                 | 0.560                | 1.750                   | 400                         | 1/2                  | 5/16                  | 5/16                  | 11.160           | 1.000           | 1.440            | 6              |
| STL500-4 | 1        | 500 MCM-4 AWG | 4                 | 0.560                | 1.750                   | 450                         | 1/2                  | 5/16                  | 5/16                  | 7.500            | 1.130           | 1.630            | 6              |
| STL500-6 | 2        | 500 MCM-4 AWG | 6                 | 0.560                | 1.750                   | 450                         | 1/2                  | 5/16                  | 5/16                  | 9.740            | 1.130           | 1.630            | 6              |
| STL500-8 | 3        | 500 MCM-4 AWG | 8                 | 0.560                | 1.750                   | 450                         | 1/2                  | 5/16                  | 5/16                  | 12.030           | 1.130           | 1.630            | 6              |
| STL750-4 | 1        | 750-250 MCM   | 4                 | 0.560                | 1.750                   | 550                         | 1/2                  | 3/8                   | 3/8                   | 8.570            | 1.440           | 2.000            | 3              |
| STL750-6 | 2        | 750-250 MCM   | 6                 | 0.560                | 1.750                   | 550                         | 1/2                  | 3/8                   | 3/8                   | 11.420           | 1.440           | 2.000            | 3              |
| STL750-8 | 3        | 750-250 MCM   | 8                 | 0.560                | 1.750                   | 550                         | 1/2                  | 3/8                   | 3/8                   | 14.280           | 1.440           | 2.000            | 3              |

# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Secondary Transformer Connectors SFTZ, SOTZ Series

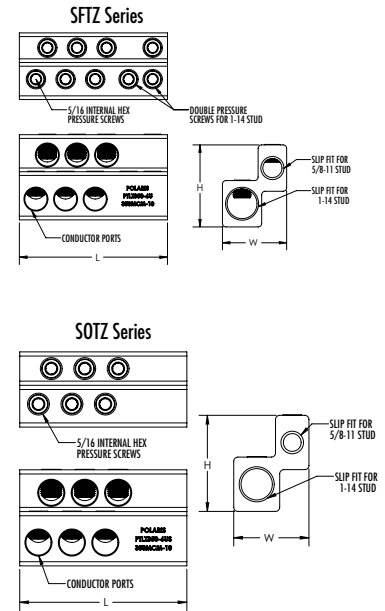
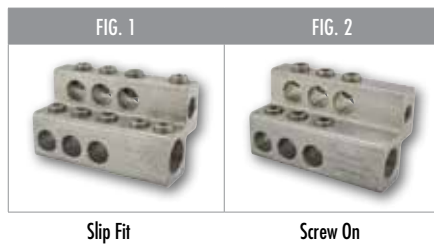


#### SPECIFICATIONS

- Meets or exceeds ANSI C119.4 Class A . AL9CU
- Temperature Rating: 90 °C.
- Voltage: 600V max.

#### FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Electro-tin plated for low contact resistance.
- For use on slip-fit or threaded transformers.
- For use with copper and aluminum conductors.



| CAT. NO.  | FIG. NO. | WIRE RANGE    | TYPE     | NO. OF CONDUCTORS | STUD SIZE    | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|-----------|----------|---------------|----------|-------------------|--------------|-----------------------------|-----------------------|------------------|-----------------|------------------|----------------|
| SFTZ350-6 | 1        | 350 MCM-6 AWG | Slip Fit | 6                 | 5/8-11, 1-14 | 400                         | 5/16                  | 5.000            | 2.250           | 2.880            | 1              |
| SFTZ350-8 | 1        | 350 MCM-6 AWG | Slip Fit | 8                 | 5/8-11, 1-14 | 400                         | 5/16                  | 6.000            | 2.250           | 2.880            | 1              |
| SFTZ500-6 | 1        | 500 MCM-6 AWG | Slip Fit | 6                 | 5/8-11, 1-14 | 450                         | 5/16                  | 5.550            | 2.250           | 2.880            | 1              |
| SOTZ350-6 | 2        | 350 MCM-6 AWG | Screw On | 6                 | 5/8-11, 1-14 | 400                         | 5/16                  | 5.000            | 2.250           | 2.880            | 1              |
| SOTZ350-8 | 2        | 350 MCM-6 AWG | Screw On | 8                 | 5/8-11, 1-14 | 400                         | 5/16                  | 6.000            | 2.250           | 2.880            | 1              |
| SOTZ500-8 | 2        | 500 MCM-6 AWG | Screw On | 8                 | 5/8-11, 1-14 | 450                         | 5/16                  | 6.680            | 2.250           | 2.880            | 1              |

# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Transformer Stud Connectors TS Series

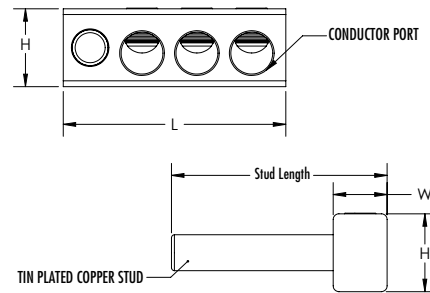


#### SPECIFICATIONS

- Meets or exceeds ANSI C119.4 Class A.
- Temperature Rating: 90 °C. AL9CU.
- Voltage: 600V max.

#### FEATURES

- Versatile and reusable set-screw connectors made from high strength 6061-T6 aluminum alloy for superior electrical and mechanical performance.
- Clear plated for low contact resistance; stud is tin plated copper which provides low contact resistance for connection to transformer.
- For use with copper and aluminum conductors.
- Hole configuration varies.



| CAT. NO.   | WIRE RANGE    | NO. OF CONDUCTORS | COPPER STUD DIA. | STUD LENGTH | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|------------|---------------|-------------------|------------------|-------------|-----------------------------|-----------------|------------|-----------|------------|----------------|
| TS1/0-2    | 1/0-4 AWG     | 2                 | 0.375            | 3.00        | 180                         | 5/16            | 2.030      | 0.630     | 0.880      | 1              |
| TS1/0-4    | 1/0-4 AWG     | 4                 | 0.375            | 3.00        | 180                         | 5/16            | 2.680      | 0.880     | 0.880      | 1              |
| TS250-2    | 250 MCM-6 AWG | 2                 | 0.500            | 4.00        | 360                         | 5/16            | 2.590      | 0.880     | 1.130      | 1              |
| TS250-3    | 250 MCM-6 AWG | 3                 | 0.500            | 4.00        | 360                         | 5/16            | 3.460      | 0.880     | 1.130      | 1              |
| TS250-4    | 250 MCM-6 AWG | 4                 | 0.500            | 4.00        | 360                         | 5/16            | 4.320      | 0.880     | 1.130      | 1              |
| TS250-8    | 250 MCM-6 AWG | 8                 | 0.500            | 4.00        | 360                         | 5/16            | 7.770      | 0.880     | 1.130      | 1              |
| TS350-2    | 350 MCM-6 AWG | 2                 | 0.625            | 4.00        | 400                         | 5/16            | 2.950      | 0.880     | 1.250      | 1              |
| TS350-2-12 | 350 MCM-6 AWG | 2                 | 0.500            | 4.00        | 400                         | 5/16            | 2.950      | 0.880     | 1.250      | 1              |
| TS350-3    | 350 MCM-6 AWG | 3                 | 0.625            | 4.00        | 400                         | 5/16            | 3.950      | 0.880     | 1.250      | 1              |
| TS350-4    | 350 MCM-6 AWG | 4                 | 0.625            | 4.00        | 400                         | 5/16            | 4.950      | 0.880     | 1.250      | 1              |
| TS350-6    | 350 MCM-6 AEG | 6                 | 0.625            | 4.00        | 400                         | 5/16            | 6.950      | 0.880     | 1.250      | 1              |
| TS350-8    | 350 MCM-6 AWG | 8                 | 0.625            | 4.00        | 400                         | 5/16            | 8.950      | 0.880     | 1.250      | 1              |
| TS500-2    | 500 MCM-4 AWG | 2                 | 0.750            | 4.50        | 450                         | 5/16            | 4.650      | 1.130     | 1.630      | 1              |
| TS500-3    | 500 MCM-4 AWG | 3                 | 0.750            | 4.50        | 450                         | 5/16            | 5.790      | 1.130     | 1.630      | 1              |
| TS500-4    | 500 MCM-4 AWG | 4                 | 0.750            | 4.50        | 450                         | 5/16            | 6.940      | 1.130     | 1.630      | 1              |
| TS750-2    | 750-250 MCM   | 2                 | 0.750            | 5.50        | 550                         | 5/16            | 4.040      | 1.250     | 1.750      | 1              |
| TS750-4    | 750-250 MCM   | 4                 | 0.750            | 5.50        | 550                         | 5/16            | 6.720      | 1.250     | 1.750      | 1              |



# CONNECTORS

## Mechanical Connectors

### Aluminum Flexible Cable Sleeve Connectors

#### FS Series



#### FEATURES

- For use with fine-stranded and flexible wire.
- Made from copper tube and plated for corrosion resistance.
- Belled end allows for easy cable insertion.

| CAT. NO. | SLEEVE ID. | COMM. CABLE SIZE | COMM CABLE | APPROX. CONDUCTOR DIAMETER |         |                   | LENGTH (L) | USE WITH MECHANICAL CONN. SIZE | STD. CTN. QTY. |
|----------|------------|------------------|------------|----------------------------|---------|-------------------|------------|--------------------------------|----------------|
|          |            |                  |            | CLASS M WELDING            | CLASS H | DIESEL LOCOMOTIVE |            |                                |                |
| FS008    | 0.180      | 8 AWG            | 0.146      | 0.162                      | 0.167   | 0.140             | 0.4724     | 4 AWG                          | 100            |
| FS006    | 0.236      | 6 AWG            | 0.184      | 0.215                      | 0.210   | 0.180             | 0.4724     | 4 AWG                          | 100            |
| FS004    | 0.291      | 4 AWG            | 0.232      | 0.269                      | 0.266   | 0.240             | 0.4724     | 1/0 AWG                        | 50             |
| FS002    | 0.336      | 2 AWG            | 0.292      | –                          | –       | 0.325             | 0.5906     | 1/0 AWG                        | 50             |
| FS001    | 0.415      | 2 AWG            | –          | 0.337                      | 0.335   | –                 | 0.7087     | 3/0 AWG                        | 25             |
|          | –          | 1 AWG            | 0.332      | 0.376                      | 0.378   | 0.390             | –          | –                              | –              |
| FS010    | 0.500      | 1/0 AWG          | 0.373      | 0.423                      | 0.424   | 0.420             | 0.8661     | 250 MCM                        | 25             |
|          | –          | 2/0 AWG          | 0.419      | –                          | 0.477   | 0.460             | –          | –                              | –              |
| FS020    | 0.579      | 2/0 AWG          | –          | 0.508                      | –       | –                 | 0.9843     | 350 MCM                        | 25             |
|          | –          | 3/0 AWG          | 0.470      | –                          | 0.536   | 0.565             | –          | –                              | –              |
| FS030    | 0.657      | 3/0 AWG          | –          | 0.576                      | –       | –                 | 1.1812     | 350 MCM                        | 12             |
|          | –          | 4/0 AWG          | 0.528      | –                          | 0.601   | 0.590             | –          | –                              | –              |
| FS040    | 0.738      | 4/0 AWG          | –          | 0.645                      | –       | 0.660 (262.6)     | 1.2598     | 500 MCM                        | 12             |
|          | –          | 250 MCM          | 0.575      | 0.713                      | 0.653   | –                 | –          | –                              | –              |
| FS350    | 0.798      | 300 MCM          | 0.630      | 0.768                      | 0.716   | 0.720 (313.1)     | –          | –                              | –              |
|          | –          | 350 MCM          | 0.681      | –                          | 0.772   | 0.781 (313.7)     | 1.2598     | 500 MCM                        | 12             |

# CONNECTORS

## Mechanical Connectors

### Copper Single Lugs Extruded & Tubular TC Series



#### SPECIFICATIONS

- UL Listed E155274
- UL486A Listed for Wire Connector.
- Temperature Rating: 90 °C. 9CU.
- Voltage: 600V max.

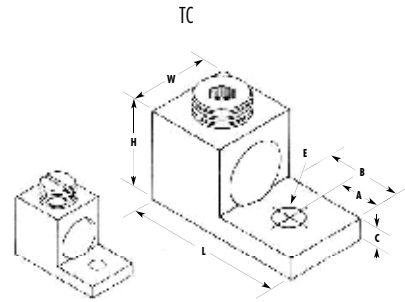
#### FEATURES

##### COPPER SINGLE LUGS - CU - EXTRUDED STYLES

- Solid one-piece copper connector made from extruded copper for superior mechanical strength and excellent electrical performance.
- Steel screw.
- For use with copper wire only.

##### COPPER SINGLE LUGS - CU - TUBULAR STYLES

- Copper connector made from tubular copper.
- Steel screw.
- For use with copper wire only.



| CAT. NO. | FIG. NO. | WIRE RANGE | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE | MTG. BOLT SIZE | LENGTH (L) | HEIGHT (H) | WIDTH (W) | MTG. HOLE DIA. (E) | TANG LENGTH (B) | END OF CONN. TO CENTER HOLE (A) | TANG THICKNESS (C) | STD. CTN. QTY. |
|----------|----------|------------|-----------------------------|-----------------|----------------|------------|------------|-----------|--------------------|-----------------|---------------------------------|--------------------|----------------|
| 6TC      | 1        | 6-14 AWG   | 25                          | Slotted         | 3/16           | 1.020      | 0.400      | 0.375     | 0.193              | 0.650           | 0.187                           | 0.115              | 100            |
| 4TC      | 1        | 4-14 AWG   | 25                          | Slotted         | 1/4            | 1.075      | 0.440      | 0.450     | 0.265              | 0.747           | 0.275                           | 0.100              | 100            |
| 2TC      | 1        | 2-14 AWG   | 30                          | Slotted         | 1/4            | 1.125      | 0.484      | 0.458     | 0.265              | 0.650           | 0.325                           | 0.125              | 100            |
| 0TC      | 1        | 1/0-14 AWG | 40                          | Slotted         | 1/4            | 1.277      | 0.680      | 0.548     | 0.265              | 0.677           | 0.337                           | 0.125              | 50             |
| 4/0TC    | 1        | 4/0-2 AWG  | 200                         | 5/16"           | 3/8            | 1.950      | 0.950      | 0.812     | 0.390              | 1.075           | 0.406                           | 0.218              | 25             |
| 6TC-1    | 2        | 6-14 AWG   | 25                          | Slotted         | 3/16           | 0.995      | 0.778      | 0.345     | 0.203              | 0.620           | 0.226                           | 0.610              | 100            |
| 4TC-1    | 2        | 4-14 AWG   | 45                          | Slotted         | 1/4            | 1.255      | 1.255      | 0.453     | 0.258              | 0.755           | 0.500                           | 0.750              | 100            |

# CONNECTORS

## Mechanical Connectors

### Copper Single/Double Solderless Lugs DE Series

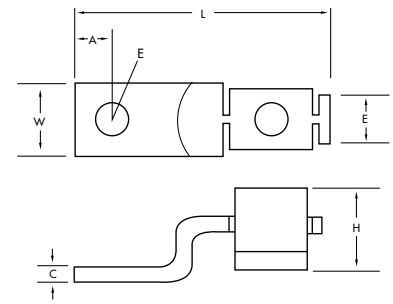
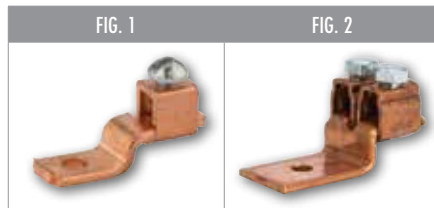


#### SPECIFICATIONS

- UL486A Listed for Wire Connector.
- Temperature Rating: 90 °C, 9CU.
- Voltage: 600V max.

#### FEATURES

- Made of 99.98% pure electrolytic copper.
- Steel-plated screws to prevent rusting.
- 25 to 70 ampere sizes have slotted head screws.
- Larger sizes have hex head screws.
- For use with Copper wire only.



| CAT.NO. | FIG. NO. | WIRE RANGE      | MTG. BOLT SIZE | AMP RATING | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TANG LENGTH (A) | TANG THICKNESS (C) | MTG. HOLE DIA. (E) | STD. CTN. QTY. |
|---------|----------|-----------------|----------------|------------|-----------------------------|-----------------|------------|-----------|------------|-----------------|--------------------|--------------------|----------------|
| DE703   | 1        | 10-14 AWG       | 1/4            | 25         | 60                          | Slotted         | 1.025      | 0.315     | 0.465      | 0.195           | 0.069              | 0.160              | 100            |
| DE704   | 1        | 6-14 AWG        | 3/16           | 35         | 90                          | Slotted         | 1.190      | 0.380     | 0.500      | 0.230           | 0.070              | 0.250              | 100            |
| DE705   | 1        | 2-8 AWG         | 5/16           | 70         | 125                         | Slotted         | 1.550      | 0.500     | 0.650      | 0.250           | 0.090              | 0.340              | 100            |
| DE711   | 1        | 4-14 AWG        | 1/4            | 70         | 90                          | Slotted         | 1.310      | 0.500     | 0.560      | 0.250           | 0.080              | 0.280              | 50             |
| DE706   | 1        | 1/0-8 AWG       | 1/4            | 125        | 150                         | Slotted         | 1.970      | 0.630     | 0.880      | 0.500           | 0.130              | 0.280              | 25             |
| DE713   | 1        | 3/0-4 AWG       | 3/8            | 175        | 200                         | 3/8             | 2.190      | 0.750     | 1.030      | 0.440           | 0.130              | 0.500              | 18             |
| DE707   | 1        | 4/0-2 AWG       | 1/2            | 225        | 200                         | 7/32            | 2.380      | 1.000     | 1.170      | 0.470           | 0.130              | 0.560              | 15             |
| D899    | 2        | 4/0-2 AWG       | 5/8            | 450        | 200                         | 5/8             | 3.200      | 1.502     | 1.720      | 0.915           | 0.190              | 0.405              | 6              |
| DE710   | 1        | 350 MCM-1/0 AWG | 3/4            | 300        | 250                         | 3/4             | 3.025      | 0.998     | 2.310      | 0.450           | 0.186              | 0.403              | 10             |
| DE708   | 1        | 500 MCM-4/0 AWG | 15/16          | 400        | 300                         | 15/16           | 4.320      | 1.497     | 2.200      | 0.840           | 0.190              | 0.403              | 2              |
| DE709   | 1        | 1000-600 MCM    | 3/8            | 650        | 400                         | 3/8             | 4.360      | 1.998     | 2.870      | 1.080           | 0.254              | 0.530              | 2              |

# CONNECTORS

## Mechanical Connectors

### Copper & Bronze Terminal Lugs TL Series



#### SPECIFICATIONS

- UL Listed E155274.
- UL486A Listed for Wire Connector. 9CU.
- Voltage: 600V max.

#### FEATURES

- Made from high conductivity copper alloy.
- Range taking.
- Re-usable.
- For use with Copper wire only.
- \* Some figures are made from high strength cast bronze.



| CAT. NO.    | FIG. NO. | MTG. BOLT SIZE | WIRE RANGE        | MTG. HOLE DIA. | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | TANG LENGTH (A) | TANG LENGTH (B) | TANG THICKNESS (C) | STD. CTN. QTY. |
|-------------|----------|----------------|-------------------|----------------|-----------------------------|-----------------|------------|-----------|------------|-----------------|-----------------|--------------------|----------------|
| TL8         | 1        | 3/16           | 8 STR-14 SOL      | 0.200          | 60                          | Slotted         | 0.815      | 0.390     | 0.400      | 0.150           | 0.467           | 0.080              | 100            |
| TL4         | 1        | 1/4            | 4 STR - 14 SOL    | 0.278          | 90                          | Slotted         | 1.125      | 0.537     | 0.553      | 0.248           | 0.617           | 0.096              | 100            |
| TL1/0       | 1A       | 5/16           | 1/0 STR - 4 SOL   | 0.315          | 150                         | 1/4             | 1.584      | 0.723     | 0.792      | 0.370           | 0.866           | 0.090              | 50             |
| TL1/0-L2*   | 2        | 5/16           | 1/0 STR - 4 SOL   | 0.360          | 150                         | 1/4             | 2.670      | 0.775     | 0.895      | 0.388           | 1.908           | 0.183              | 40             |
| TL250       | 1A       | 3/8            | 250 MCM - 6 STR   | 0.380          | 250                         | 1/4             | 1.950      | 0.927     | 1.049      | 0.416           | 1.088           | 0.119              | 25             |
| TL250-L2*   | 2        | 3/8            | 250 MCM - 1/0 STR | 0.403          | 250                         | 1/4             | 2.996      | 1.103     | 1.025      | 0.424           | 1.890           | 0.246              | 15             |
| TL250-2L2*  | 3        | 1/2            | 300 MCM - 4/0 STR | 0.560          | 250                         | 1/4             | 4.473      | 1.994     | 1.102      | 0.713           | 3.375           | 0.283              | 10             |
| TL250-3L2*  | 5        | 1/2            | 300 MCM - 4/0 STR | 0.560          | 250                         | 5/8             | 4.472      | 3.058     | 1.838      | 0.600           | 3.255           | 0.362              | 4              |
| TL250-4L2*  | 7        | 1/2            | 300 MCM - 4/0 STR | 0.560          | 250                         | 5/8             | 4.440      | 4.089     | 1.783      | 0.650           | 3.175           | 0.394              | 3              |
| TL500       | 1B       | 1/2            | 500 MCM - 4/0 STR | 0.525          | 300                         | 3/8             | 2.986      | 1.375     | 1.456      | 0.750           | 1.640           | 0.303              | 10             |
| TL500-L2*   | 2        | 1/2            | 500 - 300 MCM     | 0.562          | 300                         | 3/4             | 4.500      | 1.375     | 2.154      | 0.625           | 3.000           | 0.344              | 6              |
| TL500-2L2*  | 3        | 1/2            | 500 - 300 MCM     | 0.562          | 300                         | 3/4             | 4.500      | 2.500     | 2.055      | 0.625           | 3.000           | 0.375              | 6              |
| TL500-2L4*  | 4        | 1/2            | 500 - 300 MCM     | 0.562          | 300                         | 3/4             | 4.500      | 3.000     | 2.055      | 0.625           | 3.000           | 0.375              | 4              |
| TL500-3L2*  | 5        | 1/2            | 500 - 300 MCM     | 0.562          | 300                         | 3/4             | 4.500      | 2.500     | 2.150      | 0.625           | 3.000           | 0.375              | 3              |
| TL500-3L4*  | 6        | 1/2            | 500 - 300 MCM     | 0.562          | 300                         | 3/4             | 4.500      | 3.625     | 2.150      | 0.625           | 3.000           | 0.375              | 3              |
| TL500-4L2*  | 7        | 1/2            | 500 - 300 MCM     | 0.562          | 300                         | 3/4             | 4.500      | 4.187     | 2.150      | 0.625           | 3.000           | 0.375              | 2              |
| TL500-4L4*  | 8        | 1/2            | 500 - 300 MCM     | 0.562          | 300                         | 3/4             | 4.500      | 4.187     | 2.150      | 0.625           | 3.000           | 0.375              | 2              |
| TL1000      | 1B       | 1/2            | 1000 - 500 MCM    | 0.557          | 400                         | 3/8             | 3.992      | 1.985     | 1.945      | 0.742           | 2.245           | 0.356              | 4              |
| TL1000-L2*  | 2        | 1/2            | 1000 - 750 MCM    | 0.562          | 400                         | 7/8             | 4.875      | 1.875     | 2.887      | 0.625           | 3.000           | 0.500              | 4              |
| TL1000-2L4* | 4        | 1/2            | 1000 - 750 MCM    | 0.570          | 400                         | 7/8             | 5.045      | 3.630     | 2.900      | 0.620           | 3.270           | 0.517              | 2              |
| TL1000-3L4* | 6        | 1/2            | 1000 - 750 MCM    | 0.570          | 400                         | 7/8             | 6.045      | 3.630     | 2.900      | 0.620           | 3.270           | 0.517              | 2              |

# CONNECTORS

## Mechanical Connectors

### Aluminum, Dual Rated, Parallel Groove Clamps

PAA, PAE Series

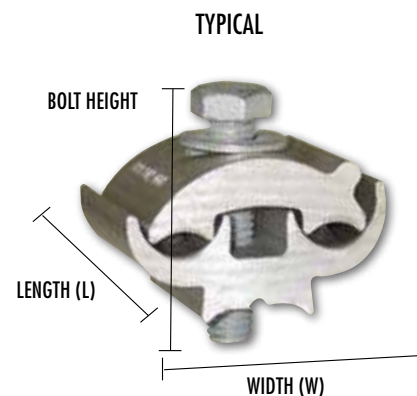


#### SPECIFICATIONS

- Temperature Rating: 90 °C.
- Voltage: 600V max.

#### FEATURES

- High strength aluminum extruded alloy fittings assembled with steel or anodized high strength aluminum flat washers for heavy duty service entrance or for use as heavy duty distribution armor rod clamps.
- Serrated grooves provide increased contact. Supplied pre-filled with oxide inhibitor.
- For galvanized steel hardware, add the suffix -SH to each part number.



| CAT. NO.  | FIG. NO. | MAIN/RUN  |               | TAP   |               | HEX WRENCH SIZE | BOLT HEIGHT | WIDTH (W) | LENGTH (L) | STD. CTN. QTY. |
|-----------|----------|-----------|---------------|-------|---------------|-----------------|-------------|-----------|------------|----------------|
|           |          | ACSR      | AL/CU         | ACSR  | AL/CU         |                 |             |           |            |                |
| PAA4      | 1        | 1/0-6     | 1/0 STR-6 SOL | 1/0-6 | 1/0 STR-6 SOL | 3/8             | 1.187       | 1.500     | 2.219      | 25             |
| PAA5      | 1        | 1/0-8     | 1/0 STR-8 SOL | 1/0-8 | 1/0 STR-8 SOL | 3/8             | 1.496       | 1.496     | 1.240      | 25             |
| PAA6      | 1        | 1/0-8     | 2/0 STR-8 SOL | 1/0-8 | 2/0 STR-8 SOL | 3/8             | 1.496       | 1.496     | 1.240      | 25             |
| PAA10     | 1        | 336.4-1/0 | 400-1/0 SOL   | 1/0-8 | 1/0 STR-8 SOL | 3/8             | 2.000       | 1.750     | 2.469      | 12             |
| PAA12     | 1        | 4/0-2     | 4/0 STR-2 SOL | 4/0-2 | 4/0 STR-2 SOL | 1/2             | 2.000       | 2.000     | 2.250      | 12             |
| PAA29     | 1        | 2-6       | 2 STR-6 SOL   | 2-6   | 2 STR-6 SOL   | 5/16            | 1.094       | 1.375     | 1.813      | 25             |
| PAA129    | 1        | 4/0-2     | 4/0 STR-2 SOL | 4/0-2 | 4/0 STR-20L   | 1/2             | 2.250       | 2.000     | 2.000      | 12             |
| PAE2121-9 | 2        | 2/0-6     | 2/0 STR-6 SOL | 2/0-6 | 2/0 STR-6 SOL | 3/8             | 2.000       | 1.625     | 1.375      | 25             |
| PAE4141-9 | 2        | 4/0-4     | 4/0 STR-2 SOL | 4/0-4 | 4/0 STR-2 SOL | 3/8             | 2.000       | 2.000     | 1.375      | 12             |

# CONNECTORS

## Mechanical Connectors

### Aluminum Service Wedge Clamps W Series

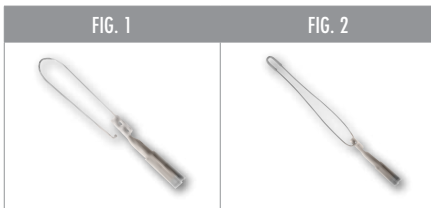


#### SPECIFICATIONS

- UL486A Listed for Wire Connector.
- Temperature Rating: 90 °C
- Voltage: 600V max.

#### FEATURES

- For dead-ending self-supporting drop wire.
- Saves conductor – drop wire may be cut to exact length.
- Can be attached to bare neutral in any point in the span.
- Adjustment in drop wire sag are easily made.
- Grips ACSR, AAAC or aluminum conductor.
- Catalog number with “FC” suffix have a Flexible bail.



| CAT. NO. | FIG. NO. | ACSR    | WIRE RANGE      |         | LENGTH (L) | WIDTH (W) | STD. CTN. QTY. |
|----------|----------|---------|-----------------|---------|------------|-----------|----------------|
|          |          |         | ALUMINUM        | AAAC    |            |           |                |
| W62-1    | 1        | 2-6     | 1 STR-6 SOL     | 2-6     | 12.000     | 2.375     | 12             |
| W62-1FC  | 2        | 2-6     | 1 STR-6 SOL     | 2-6     | 17.500     | FLEX      | 12             |
| W20-1    | 1        | 1/0-4   | 2/0 STR-2 SOL   | 1/0-4   | 12.500     | 2.375     | 8              |
| W20-1FC  | 2        | 1/0-4   | 2/0 STR-2 SOL   | 1/0-4   | 18.500     | FLEX      | 8              |
| W40-1    | 1        | 4/0-2/0 | 4/0 STR-2/0 SOL | 4/0-2/0 | 12.750     | 2.375     | 6              |
| W40-1FC  | 2        | 4/0-2/0 | 4/0 STR-2/0 SOL | 4/0-2/0 | 18.500     | FLEX      | 6              |

# CONNECTORS

## Mechanical Connectors

### Service Entrance Connector

#### EC Series



#### SPECIFICATIONS

- Temperature Rating: 90 °C
- Voltage: 600V max.

#### FEATURES

- Body and screw are of high strength, corrosion resistant copper alloy.

| CAT. NO. | WIRE RANGE | MAX TORQUE VALUE (IN./LBS.) | HEX WRENCH SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|----------|------------|-----------------------------|-----------------|------------|-----------|------------|----------------|
| EC12     | 12 str     | 35                          | 1/4             | 0.312      | 0.312     | 0.684      | 100            |
| EC6      | 6 str      | 45                          | 5/16            | 0.378      | 0.378     | 0.828      | 100            |
| EC4      | 4 str      | 45                          | 3/8             | 0.436      | 0.436     | 0.906      | 100            |
| EC2      | 2 str      | 50                          | 7/8             | 0.564      | 0.564     | 1.146      | 100            |



# CONNECTORS

## Compression Connectors

### Aluminum, Dual Rated, One Hole Standard Barrel AL Series

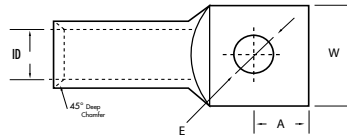
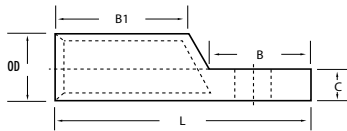


#### FEATURES

- Produced from high conductivity aluminum tubing.
- Electro-tin plated for corrosion resistance.
- Color coded and marked with die index information.
- Pre-filled with oxide inhibitor and capped with color coded cap.
- Listed for 35KV maximum when properly installed to cable manufactures specifications.

#### SPECIFICATIONS

- cULus Listed for Wire Connector.
- UL486A/B Listed for Wire Connector.
- UL Listed to 35kV when properly installed to cable manufactures specifications.
- **Temperature Rating:** 90 °C. AL9CU
- **Crimp Tool:** N1240, N121D.
- **Voltage:** 600V max. (2000V max. per UL486B).



**\*EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.  
UL Listed with other tools:

**FOR TOOL/DIE CRIMPING INFORMATION,  
PLEASE SEE TABLE ON PAGE 90**

| CAT. NO.  | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | BOLT SIZE | BARREL O.D. | BARREL I.D. | LENGTH (L) | WIDTH (W) | TANG LENGTH (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (E) | STD. CTN. QTY. |
|-----------|------------|----------------------|------------|-----------|-------------|-------------|------------|-----------|-----------------|-----------------|--------------------|--------------------|--------------------|----------------|
| AL8-14    | 8 AWG      | 8 AWG                | Blue       | 1/4       | 0.302       | 0.182       | 1.549      | 0.410     | 0.231           | 0.645           | 0.550              | 0.114              | 0.260              | 24             |
| AL6-14    | 6 AWG      | 6-8 AWG              | Gray       | 1/4       | 0.339       | 0.201       | 2.008      | 0.567     | 0.378           | 0.878           | 0.858              | 0.098              | 0.248              | 24             |
| AL4-14    | 4 AWG      | 4-6 AWG              | Green      | 1/4       | 0.441       | 0.252       | 2.307      | 0.567     | 0.378           | 0.878           | 1.098              | 0.189              | 0.248              | 24             |
| AL4-38    | 4 AWG      | 4-6 AWG              | Green      | 3/8       | 0.441       | 0.252       | 2.390      | 0.650     | 0.378           | 0.878           | 1.098              | 0.150              | 0.409              | 24             |
| AL2-14    | 2 AWG      | 2-6 AWG              | Pink       | 1/4       | 0.532       | 0.311       | 2.500      | 0.709     | 0.378           | 0.878           | 1.201              | 0.217              | 0.248              | 24             |
| AL2-38    | 2 AWG      | 2-6 AWG              | Pink       | 3/8       | 0.532       | 0.311       | 2.500      | 0.709     | 0.378           | 0.878           | 1.201              | 0.217              | 0.409              | 24             |
| AL1-14    | 1 AWG      | 1-6 AWG              | Gold       | 1/4       | 0.532       | 0.350       | 2.500      | 0.728     | 0.378           | 0.878           | 1.201              | 0.177              | 0.248              | 24             |
| AL1/0-38  | 1/0 AWG    | 1/0-6 AWG            | Tan        | 3/8       | 0.630       | 0.390       | 2.807      | 0.847     | 0.500           | 0.929           | 1.201              | 0.240              | 0.409              | 24             |
| AL1/0-48  | 1/0 AWG    | 1/0-6 AWG            | Tan        | 1/2       | 0.630       | 0.390       | 2.807      | 0.847     | 0.020           | 0.929           | 1.201              | 0.240              | 0.508              | 24             |
| AL2/0-38  | 2/0 AWG    | 2/0-4 AWG            | Olive      | 3/8       | 0.689       | 0.441       | 2.807      | 0.937     | 0.500           | 1.118           | 1.299              | 0.240              | 0.409              | 12             |
| AL2/0-48  | 2/0 AWG    | 2/0-4 AWG            | Olive      | 1/2       | 0.689       | 0.441       | 2.807      | 0.937     | 0.500           | 1.118           | 1.299              | 0.240              | 0.508              | 12             |
| AL3/0-38  | 3/0 AWG    | 3/0-2 AWG            | Ruby       | 3/8       | 0.760       | 0.480       | 3.000      | 1.028     | 0.500           | 1.118           | 1.402              | 0.280              | 0.409              | 12             |
| AL3/0-48  | 3/0 AWG    | 3/0-2 AWG            | Ruby       | 1/2       | 0.760       | 0.480       | 3.000      | 1.028     | 0.500           | 1.118           | 1.402              | 0.280              | 0.508              | 12             |
| AL4/0-38  | 4/0 AWG    | 4/0-1 AWG            | White      | 3/8       | 0.839       | 0.551       | 3.429      | 1.150     | 0.559           | 1.307           | 1.402              | 0.287              | 0.409              | 12             |
| AL4/0-48  | 4/0 AWG    | 4/0-1 AWG            | White      | 1/2       | 0.839       | 0.551       | 3.429      | 1.150     | 0.559           | 1.307           | 1.402              | 0.287              | 0.508              | 12             |
| AL250-48  | 250 MCM    | 250 MCM-1/0 AWG      | Red        | 1/2       | 0.921       | 0.591       | 3.500      | 1.260     | 0.630           | 1.307           | 1.500              | 0.319              | 0.508              | 12             |
| AL300-48  | 300 MCM    | 300 MCM-2/0 AWG      | Blue       | 1/2       | 1.012       | 0.650       | 4.000      | 1.370     | 0.630           | 1.500           | 1.598              | 0.347              | 0.508              | 6              |
| AL350-48  | 350 MCM    | 350MCM-3/0 AWG       | Brown      | 1/2       | 1.118       | 0.721       | 4.248      | 1.520     | 0.689           | 1.500           | 1.902              | 0.390              | 0.508              | 6              |
| AL400-48  | 400 MCM    | 400MCM-4/0 AWG       | Green      | 1/2       | 1.189       | 0.760       | 4.677      | 1.606     | 0.689           | 1.500           | 2.299              | 0.417              | 0.508              | 6              |
| AL500-48  | 500 MCM    | 500-250 MCM          | Pink       | 1/2       | 1.319       | 0.839       | 4.748      | 1.787     | 0.748           | 1.500           | 2.500              | 0.469              | 0.508              | 6              |
| AL500-58  | 500 MCM    | 500-250 MCM          | Pink       | 5/8       | 1.319       | 0.839       | 4.748      | 1.787     | 0.748           | 1.500           | 2.500              | 0.469              | 0.669              | 6              |
| AL600-48  | 600 MCM    | 600-250 MCM          | Black      | 1/2       | 1.441       | 0.921       | 5.118      | 1.957     | 0.748           | 1.870           | 2.598              | 0.508              | 0.508              | 3              |
| AL600-58  | 600 MCM    | 600-250 MCM          | Black      | 5/8       | 1.441       | 0.921       | 5.118      | 1.957     | 0.748           | 1.870           | 2.598              | 0.508              | 0.669              | 3              |
| AL750-48  | 750 MCM    | 750-500 MCM          | Yellow     | 1/2       | 1.598       | 1.032       | 6.118      | 2.189     | 0.937           | 2.000           | 3.201              | 0.547              | 0.508              | 3              |
| AL750-58  | 750 MCM    | 750-500 MCM          | Yellow     | 5/8       | 1.598       | 1.032       | 6.118      | 2.189     | 0.937           | 2.000           | 3.201              | 0.547              | 0.669              | 3              |
| AL1000-58 | 1000 MCM   | —                    | Brown      | 5/8       | 1.833       | 1.173       | 6.719      | 2.500     | 1.000           | 2.500           | 2.562              | 0.688              | 0.669              | 1              |

# CONNECTORS

## Compression Connectors

### Aluminum, Dual Rated, Two Hole Standard Barrel AL-N Series

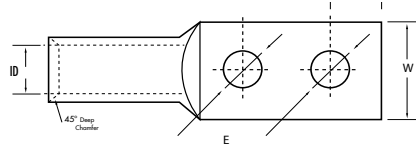
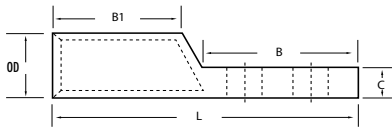


#### SPECIFICATIONS

- cULus Listed for Wire Connector.
- UL486A/B Listed for Wire Connector.
- UL Listed to 35kV when properly installed to cable manufacturers specifications.
- **Temperature Rating:** 90 °C. AL9CU
- **Crimp Tool:** N1240, N121D.
- **Voltage:** 600V max. (2000V max. per UL486B).

#### FEATURES

- Produced from high conductivity aluminum tubing.
- Electro-tin plated for corrosion resistance.
- Color coded and marked with die index information.
- Pre-filled with oxide inhibitor and capped with color coded cap.
- Listed for 35KV maximum when properly installed to cable manufactures specifications.



**\*EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 90**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | BOLT SIZE | MTG. HOLE SPACING | O.D.  | I.D.  | LENGTH (L) | WIDTH (W) | TANG LENGTH (A) | TANG LENGTH (B) | BARREL LENGTH (B1) | TANG THICKNESS (C) | MTG. HOLE DIA. (E) | STD. CTN. QTY. |
|----------|------------|----------------------|------------|-----------|-------------------|-------|-------|------------|-----------|-----------------|-----------------|--------------------|--------------------|--------------------|----------------|
| AL1/ON   | 1/0 AWG    | 1/0-6 AWG            | Tan        | 1/2       | 1.750             | 0.630 | 0.390 | 4.748      | 0.847     | 0.630           | 3.118           | 1.201              | 0.240              | 0.508              | 12             |
| AL2/ON   | 2/0 AWG    | 2/0-4 AWG            | Olive      | 1/2       | 1.750             | 0.690 | 0.440 | 4.799      | 0.937     | 0.630           | 3.118           | 1.299              | 0.240              | 0.508              | 12             |
| AL3/ON   | 3/0 AWG    | 3/0-2 AWG            | Ruby       | 1/2       | 1.750             | 0.760 | 0.480 | 5.000      | 1.028     | 0.630           | 3.118           | 1.402              | 0.280              | 0.508              | 12             |
| AL4/ON   | 4/0 AWG    | 4/0-1 AWG            | White      | 1/2       | 1.750             | 0.840 | 0.550 | 5.248      | 1.150     | 0.630           | 3.118           | 1.402              | 0.287              | 0.508              | 12             |
| AL250N   | 250 MCM    | 250 MCM-1/0 AWG      | Red        | 1/2       | 1.750             | 0.920 | 0.590 | 5.307      | 1.260     | 0.630           | 3.118           | 1.500              | 0.319              | 0.508              | 12             |
| AL300N   | 300 MCM    | 300 MCM-2/0 AWG      | Blue       | 1/2       | 1.750             | 1.010 | 0.650 | 5.500      | 1.370     | 0.630           | 3.118           | 1.598              | 0.347              | 0.508              | 6              |
| AL350N   | 350 MCM    | 350MCM-3/0 AWG       | Brown      | 1/2       | 1.750             | 1.120 | 0.720 | 5.870      | 1.520     | 0.630           | 3.118           | 1.902              | 0.390              | 0.508              | 6              |
| AL400N   | 400 MCM    | 400MCM-4/0 AWG       | Green      | 1/2       | 1.750             | 1.190 | 0.760 | 6.429      | 1.606     | 0.630           | 3.118           | 2.299              | 0.417              | 0.508              | 6              |
| AL500N   | 500 MCM    | 500-250 MCM          | Pink       | 1/2       | 1.750             | 1.320 | 0.840 | 6.500      | 1.787     | 0.630           | 3.118           | 2.500              | 0.469              | 0.508              | 6              |
| AL600N   | 600 MCM    | 600-250 MCM          | Black      | 1/2       | 1.750             | 1.440 | 0.920 | 6.748      | 1.779     | 0.630           | 3.118           | 2.598              | 0.508              | 0.508              | 3              |
| AL750N   | 750 MCM    | 750-500 MCM          | Yellow     | 1/2       | 1.750             | 1.598 | 1.030 | 7.370      | 1.744     | 0.630           | 3.118           | 3.201              | 0.547              | 0.508              | 3              |
| AL1000N  | 1000 MCM   | —                    | Brown      | 1/2       | 1.750             | 1.831 | 1.170 | 7.437      | 2.500     | 0.750           | 3.219           | 2.562              | 0.687              | 0.508              | 1              |

# CONNECTORS

## Compression Connectors

### Dual Rated, Aluminum Splice

#### ASC-T Series

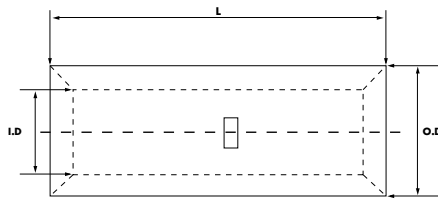


#### FEATURES

- Produced from high conductivity aluminum tubing.
- Center stop assures proper cable installation.
- Electro-tin plated for corrosion resistance.
- Color coded and marked with die index information.
- Pre-filled with oxide inhibitor and capped with color coded cap.
- Listed for 35KV maximum when properly installed to cable manufactures specifications.

#### SPECIFICATIONS

- cULus Listed for Wire Connector.
- UL486A/B Listed for Wire Connector.
- UL Listed to 35kV when properly installed to cable manufactures specifications.
- **Temperature Rating:** 90 °C. AL9CU
- **Crimp Tool:** N1240, N121D.
- **Voltage:** 600V max. (2000V max. per UL486B).



**\*EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.  
UL Listed with other tools:

**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 90**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | O.D.  | I.D.  | LENGTH (L) | STD. CTN. QTY. |
|----------|------------|----------------------|------------|-------|-------|------------|----------------|
| ASC8T    | 8 AWG      | 8 AWG                | Blue       | 0.297 | 0.146 | 1.750      | 100            |
| ASC6T    | 6 AWG      | 6-8 AWG              | Gray       | 0.339 | 0.197 | 1.630      | 24             |
| ASC4T    | 4 AWG      | 4-6 AWG              | Green      | 0.437 | 0.248 | 2.000      | 24             |
| ASC2T    | 2 AWG      | 2-6 AWG              | Pink       | 0.528 | 0.307 | 2.378      | 24             |
| ASC1T    | 1 AWG      | 1-6 AWG              | Gold       | 0.528 | 0.347 | 2.378      | 24             |
| ASC1/OT  | 1/0 AWG    | 1/0-6 AWG            | Tan        | 0.630 | 0.390 | 2.500      | 24             |
| ASC2/OT  | 2/0 AWG    | 2/0-4 AWG            | Olive      | 0.689 | 0.440 | 2.630      | 12             |
| ASC3/OT  | 3/0 AWG    | 3/0-2 AWG            | Ruby       | 0.760 | 0.480 | 2.878      | 12             |
| ASC4/OT  | 4/0 AWG    | 4/0-1 AWG            | White      | 0.839 | 0.550 | 3.130      | 12             |
| ASC250T  | 250 MCM    | 250 MCM-1/0 AWG      | Red        | 0.920 | 0.590 | 3.248      | 12             |
| ASC300T  | 300 MCM    | 300 MCM-2/0 AWG      | Blue       | 1.010 | 0.650 | 3.248      | 6              |
| ASC350T  | 350 MCM    | 350MCM-3/0 AWG       | Brown      | 1.120 | 0.720 | 3.878      | 6              |
| ASC400T  | 400 MCM    | 400MCM-4/0 AWG       | Green      | 1.190 | 0.760 | 4.878      | 6              |
| ASC500T  | 500 MCM    | 500-250 MCM          | Pink       | 1.320 | 0.840 | 5.000      | 6              |
| ASC600T  | 600 MCM    | 600-250 MCM          | Black      | 1.440 | 0.920 | 5.130      | 6              |
| ASC750T  | 750 MCM    | 750-500 MCM          | Yellow     | 1.600 | 1.030 | 5.378      | 3              |
| ASC1000T | 1000 MCM   | —                    | Brown      | 1.844 | 1.153 | 5.250      | 3              |

# CONNECTORS

## Compression Connectors

### Bi-Metallic Pin Terminals

#### PT Series



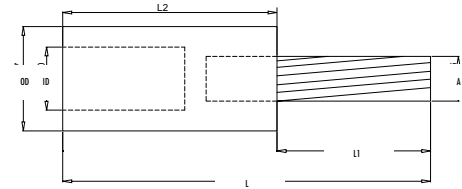
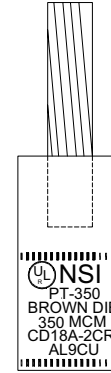
#### SPECIFICATIONS

- UL486A/B Listed for Wire Connector.
- Temperature Rating: 90 °C. AL9.
- Crimp Tool: N1240.
- Voltage: 600V max.



#### FEATURES

- Designed to facilitate termination of aluminum conductors.
- Pin: Stranded copper, tin plated.
- Supplied with PVC insulating cover.
- Connector bores are coated with oxide inhibitor.



CONNECTORS

| CAT. NO. | WIRE RANGE | COLOR CODE | PIN SIZE | O.D.  | I.D.  | PIN DIA. (A) | LENGTH (L) | PIN LENGTH (L1) | BODY LENGTH (L2) | STD. CTN. QTY. |
|----------|------------|------------|----------|-------|-------|--------------|------------|-----------------|------------------|----------------|
| PT6      | 6 AWG      | —          | # 8      | 0.639 | 0.186 | 0.144        | 2.125      | 0.875           | 1.250            | 25             |
| PT4      | 4 AWG      | Tan        | # 6      | 0.630 | 0.236 | 0.188        | 2.450      | 0.913           | 1.540            | 25             |
| PT2      | 2 AWG      | Tan        | # 4      | 0.641 | 0.311 | 0.228        | 2.440      | 0.913           | 1.527            | 25             |
| PT1      | 1 AWG      | Tan        | # 3      | 0.630 | 0.350 | 0.279        | 2.539      | 1.003           | 1.530            | 10             |
| PT1/0    | 1/0 AWG    | Tan        | # 2      | 0.900 | 0.366 | 0.287        | 3.405      | 1.259           | 2.140            | 10             |
| PT2/0    | 2/0 AWG    | White      | # 1      | 0.900 | 0.429 | 0.322        | 3.342      | 1.251           | 2.090            | 10             |
| PT3/0    | 3/0 AWG    | White      | 1/0      | 0.900 | 0.484 | 0.362        | 3.598      | 1.456           | 2.140            | 10             |
| PT4/0    | 4/0 AWG    | White      | 2/0      | 0.900 | 0.547 | 0.405        | 3.523      | 1.464           | 2.050            | 10             |
| PT250    | 250 MCM    | Brown      | 3/0      | 1.160 | 0.653 | 0.440        | 3.858      | 1.551           | 2.300            | 10             |
| PT300    | 300 MCM    | Brown      | 4/0      | 1.160 | 0.653 | 0.523        | 4.086      | 1.696           | 2.389            | 10             |
| PT350    | 350 MCM    | Brown      | 4/0      | 1.157 | 0.700 | 0.496        | 4.082      | 1.704           | 2.377            | 10             |
| PT400    | 400 MCM    | Pink       | 250      | 1.330 | 0.759 | 0.582        | 4.362      | 1.984           | 2.377            | 10             |
| PT500    | 500 MCM    | Pink       | 350      | 1.330 | 0.759 | 0.681        | 4.192      | 1.842           | 2.350            | 10             |
| PT600    | 600 MCM    | Yellow     | 350      | 1.503 | 0.921 | 0.688        | 4.960      | 1.897           | 3.051            | 3              |
| PT750    | 750 MCM    | Yellow     | 500      | 1.500 | 1.015 | 0.787        | 5.007      | 2.003           | 3.015            | 3              |

# CONNECTORS

## Compression Connectors

### Dual Rated Pin Terminals

#### PTS, PTO Series



### SPECIFICATIONS

- UL486A/B Listed for Wire Connector Adapter.
- Temperature Rating: 90 °C, AL9CU
- Crimp Tool: N1240.
- Voltage: 600V max.

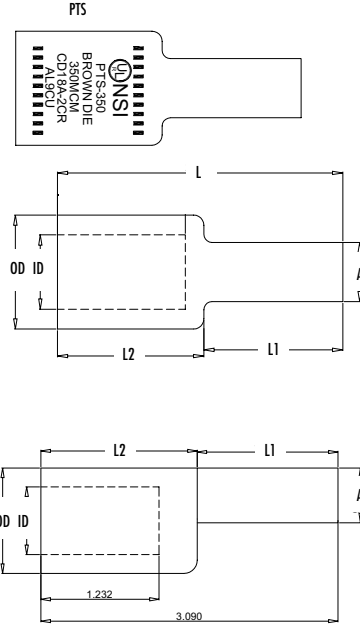
### FEATURES

#### Solid Pin Terminals - PTS Series (Centered Pin)

- All-aluminum pin terminal designed for termination of both aluminum and copper conductors. The pin is solid aluminum. The connector is tin plated to provide low contact resistance and oxidation protection. Connector is pre-filled with Oxide Inhibitor and capped with color coded cap indicating color of die to use. A cover is provided for quick installation.

#### Solid Pin Terminals - PTO Series (Offset Pin)

- All-aluminum pin terminal designed for termination of both aluminum and copper conductors. In addition to above the PTO Series provides an offset termination pin. Pin is offset for use in tight applications while providing ease of installation in side by side applications. The solid pin is made of aluminum and is tin-plated and pre-filled with oxide inhibitor. Great for paralleling cable. A cover is provided for quick insulation.



| CAT. NO. | FIG. NO. | WIRE RANGE | COLOR CODE | PIN SIZE | O.D.  | I.D.  | PIN DIA. (A) | LENGTH (L) | PIN LENGTH (L1) | BODY LENGTH (L2) | STD. CTN. QTY. |
|----------|----------|------------|------------|----------|-------|-------|--------------|------------|-----------------|------------------|----------------|
| PTS6     | 1        | 6 STR      | Tan        | 4        | 0.598 | 0.220 | 0.240        | 1.850      | 0.681           | 1.169            | 25             |
| PTS4     | 1        | 4 STR      | Tan        | 4        | 0.598 | 0.236 | 0.240        | 1.850      | 0.681           | 1.169            | 25             |
| PTS2     | 1        | 2 STR      | Tan        | 4        | 0.598 | 0.299 | 0.240        | 1.840      | 0.680           | 1.160            | 25             |
| PTS1     | 1        | 1 STR      | Tan        | 3        | 0.598 | 0.318 | 0.250        | 1.990      | 0.830           | 1.160            | 10             |
| PTS1/0   | 1        | 1/0 STR    | Tan        | 2        | 0.598 | 0.370 | 0.290        | 1.990      | 0.830           | 1.160            | 10             |
| PTS2/0   | 1        | 2/0 STR    | White      | 1        | 0.850 | 0.429 | 0.330        | 2.200      | 0.830           | 1.370            | 10             |
| PTS3/0   | 1        | 3/0 STR    | White      | 1/0      | 0.850 | 0.476 | 0.370        | 2.590      | 1.220           | 1.370            | 10             |
| PTS4/0   | 1        | 4/0 STR    | White      | 2/0      | 0.850 | 0.535 | 0.420        | 2.590      | 1.220           | 1.370            | 10             |
| PTS250   | 1        | 250 MCM    | Brown      | 3/0      | 1.090 | 0.594 | 0.460        | 2.620      | 1.220           | 1.400            | 10             |
| PTS300   | 1        | 300 MCM    | Brown      | 4/0      | 1.090 | 0.653 | 0.530        | 2.730      | 1.330           | 1.400            | 10             |
| PTS350   | 1        | 350 MCM    | Brown      | 250      | 1.090 | 0.716 | 0.570        | 2.730      | 1.330           | 1.400            | 10             |
| PTS400   | 1        | 400 MCM    | Pink       | 300      | 1.310 | 0.763 | 0.620        | 3.070      | 1.590           | 1.480            | 10             |
| PTS500   | 1        | 500 MCM    | Pink       | 350      | 1.310 | 0.826 | 0.680        | 3.070      | 1.590           | 1.480            | 10             |
| PTS600   | 1        | 600 MCM    | Yellow     | 400      | 1.460 | 0.921 | 0.720        | 3.670      | 1.640           | 2.030            | 3              |
| PTS750   | 1        | 750 MCM    | Yellow     | 500      | 1.460 | 1.027 | 0.810        | 3.780      | 1.750           | 2.030            | 3              |
| PTO-2/0  | 2        | 2/0 AWG    | White      | 1        | 0.850 | 0.440 | 0.330        | 2.690      | 1.120           | 1.570            | 10             |
| PTO-3/0  | 2        | 3/0 AWG    | White      | 1/0      | 0.850 | 0.500 | 0.370        | 2.800      | 1.250           | 1.550            | 10             |
| PTO-4/0  | 2        | 4/0 AWG    | White      | 2/0      | 0.850 | 0.547 | 0.420        | 2.780      | 1.270           | 1.510            | 10             |
| PTO-250  | 2        | 250 MCM    | Brown      | 3/0      | 1.090 | 0.594 | 0.460        | 2.780      | 1.270           | 1.510            | 10             |
| PTO-300  | 2        | 300 MCM    | Brown      | 4/0      | 1.090 | 0.657 | 0.530        | 3.080      | 1.460           | 1.620            | 10             |
| PTO-350  | 2        | 350 MCM    | Brown      | 250      | 1.090 | 0.704 | 0.570        | 3.080      | 1.460           | 1.620            | 10             |
| PTO-400  | 2        | 400 MCM    | Pink       | 300      | 1.310 | 0.763 | 0.620        | 3.380      | 1.680           | 1.700            | 10             |
| PTO-500  | 2        | 500 MCM    | Pink       | 350      | 1.310 | 0.842 | 0.680        | 3.380      | 1.680           | 1.700            | 10             |
| PTO-600  | 2        | 600 MCM    | Yellow     | 400      | 1.460 | 0.821 | 0.720        | 3.990      | 1.720           | 2.270            | 3              |
| PTO-750  | 2        | 750 MCM    | Yellow     | 500      | 1.460 | 1.031 | 0.810        | 4.180      | 1.720           | 2.460            | 3              |



# CONNECTORS

## Compression Connectors

### Dual Rated, Wide Range Tap Connectors

#### WRD Series



#### SPECIFICATIONS

- Voltage: 600V.

#### FEATURES

- For combinations of aluminum and aluminum-copper conductors.
- Standard compression tools and dies install all sizes.
- Formable ribs provide broader contact area.
- Fold-in tabs provide positive tab interlock as tool closes.
- Made from high strength aluminum alloy.
- All connectors are reversible.

FOR TOOL/DIE CRIMPING INFORMATION,  
PLEASE SEE TABLE ON PAGE 92

| CAT. NO. | STANDARD CONDUCTOR RANGE |     |     |          |     |     | COMPACT CONDUCTOR |          |          |     | STD. CTN. QTY. |
|----------|--------------------------|-----|-----|----------|-----|-----|-------------------|----------|----------|-----|----------------|
|          | A GROOVE                 |     |     | B GROOVE |     |     | A GROOVE          |          | B GROOVE |     |                |
|          | ACSR                     | STR | SOL | ACSR     | STR | SOL | ACSR              | STR      | ACSR     | STR |                |
| WRD159   | -                        | 1   | -   | -        | 1   | -   | 1                 | 1        | 1        | 1   | 25             |
|          | 2                        | 2   | 2   | 2        | 2   | 2   | 2                 | 2        | 2        | 2   | 25             |
|          | 3                        | 3   | 3   | 3        | 3   | 3   | 3                 | 3        | 3        | 3   | 25             |
|          | 4                        | 4   | 4   | 4        | 4   | 4   | 4                 | 4        | 4        | 4   | 25             |
|          | 6                        | 6   | 6   | 6        | 6   | 6   | 6                 | 6        | 6        | 6   | 25             |
| WRD189   | -                        | -   | 3/0 | -        | -   | 1/0 | -                 | -        | -        | -   | 25             |
|          | -                        | 2/0 | 2/0 | -        | 1   | 1   | 2/0               | 2/0      | 1        | 1   | 25             |
|          | 1/0                      | 1/0 | 1/0 | 2        | 2   | 1/0 | 1/0               | 2        | 2        | -   | 25             |
|          | 1                        | 1   | 1   | 3        | 3   | 3   | 1                 | 1        | 3        | 3   | 25             |
|          | 2                        | 2   | -   | 4        | 4   | 4   | 2                 | 2        | 4        | 4   | 25             |
|          | 3                        | -   | -   | 6        | 6   | 6   | -                 | -        | 6        | 6   | 25             |
| WRD279   | -                        | -   | 4/0 | -        | 3/0 | 3/0 | -                 | -        | -        | -   | 25             |
|          | -                        | 3/0 | 3/0 | 2/0      | 2/0 | 2/0 | 3/0               | 3/0      | 3/0      | 3/0 | 25             |
|          | 2/0                      | 2/0 | 2/0 | 1/0      | 1/0 | -   | 2/0               | 2/0      | 2/0      | 2/0 | 25             |
|          | 1/0                      | 4/0 | -   | 1        | -   | -   | 1/0               | 1/0      | 1/0      | 1/0 | 25             |
|          | 1                        | -   | -   | -        | -   | -   | -                 | -        | -        | -   | 25             |
| WRD289   | -                        | -   | -   | -        | -   | 1/0 | -                 | -        | -        | -   | 25             |
|          | -                        | -   | -   | -        | 1   | 1   | -                 | -        | 1        | 1   | 25             |
|          | -                        | -   | 4/0 | 2        | 2   | 2   | 3/0               | 3/0      | 2        | 2   | 25             |
|          | -                        | 3/0 | 3/0 | 3        | 3   | 3   | 2/0               | -        | 3        | 3   | 25             |
|          | 2/0                      | 2/0 | -   | 4        | 4   | 4   | -                 | -        | 4        | 4   | 25             |
|          | 1/0                      | -   | -   | 6        | 6   | 6   | -                 | -        | 6        | 6   | 25             |
| WRD379   | -                        | -   | -   | -        | -   | 1/0 | -                 | -        | -        | -   | 25             |
|          | -                        | -   | -   | -        | 1   | 1   | -                 | -        | 1        | 1   | 25             |
|          | -                        | -   | -   | 2        | 2   | 2   | 266-18/1          | 266      | 2        | 2   | 25             |
|          | 4/0                      | 4/0 | -   | 3        | 3   | 3   | 250               | 250      | 3        | 3   | 25             |
|          | 3/0                      | -   | -   | 4        | 4   | 4   | 4/0               | 4/0      | 4        | 4   | 25             |
|          | -                        | -   | -   | 6        | 6   | 6   | -                 | -        | 6        | 6   | 25             |
| WRD399   | -                        | -   | -   | -        | -   | 3/0 | 266-18/1          | 266      | -        | -   | 25             |
|          | -                        | -   | -   | 2/0      | 2/0 | 2/0 | -                 | 250      | -        | 3/0 | 25             |
|          | 4/0                      | 4/0 | -   | 1/0      | 1/0 | -   | 4/0               | 4/0      | 2/0      | 2/0 | 25             |
|          | 3/0                      | 3/0 | -   | 1        | -   | -   | 3/0               | -        | 1/0      | 1/0 | 25             |
| WRD419   | -                        | -   | -   | -        | -   | -   | 266-18/1          | 266-18/1 | 266-18/1 | 266 | 25             |
|          | 4/0                      | 4/0 | -   | 4/0      | 4/0 | -   | -                 | 250      | -        | 250 | 25             |
|          | 3/0                      | 3/0 | -   | 3/0      | 3/0 | -   | 4/0               | 4/0      | 4/0      | 4/0 | 25             |

# CONNECTORS

## Compression Connectors

Dual Rated, Wide Range Tap Connectors  
WRD Series Cont'd



### SPECIFICATIONS

- Voltage: 600V.

### FEATURES

- For combinations of aluminum and aluminum-copper conductors.
- Standard compression tools and dies install all sizes.
- Formable ribs provide broader contact area.
- Fold-in tabs provide positive tab interlock as tool closes.
- Made from high strength aluminum alloy.
- All connectors are reversible.

FOR TOOL/DIE CRIMPING INFORMATION,  
PLEASE SEE TABLE ON PAGE 92

| CAT. NO. | STANDARD CONDUCTOR RANGE |     |     |          |     |     | COMPACT CONDUCTOR |     |          |     | STD. CTN. QTY. |
|----------|--------------------------|-----|-----|----------|-----|-----|-------------------|-----|----------|-----|----------------|
|          | A GROOVE                 |     |     | B GROOVE |     |     | A GROOVE          |     | B GROOVE |     |                |
|          | ACSR                     | STR | SOL | ACSR     | STR | SOL | ACSR              | STR | ACSR     | STR |                |
| WRD9     | -                        | -   | 1   | -        | 8   | 8   | -                 | -   | -        | -   | 50             |
|          | 3                        | 2   | 2   | -        | 10  | 10  | -                 | -   | -        | -   | 50             |
|          | 4                        | 3   | 3   | -        | 12  | 12  | -                 | -   | -        | -   | 50             |
|          | 6                        | 4   | 4   | -        | 14  | 14  | -                 | -   | -        | -   | 50             |
|          | 6                        | -   | -   | -        | -   | -   | -                 | -   | -        | -   | 50             |
| WRD139   | -                        | 2/0 | -   | -        | -   | -   | -                 | -   | -        | -   | 25             |
|          | 1/0                      | 1/0 | -   | -        | -   | -   | -                 | -   | -        | -   | 25             |
|          | 1                        | 1   | 1   | -        | -   | 6   | -                 | -   | -        | -   | 25             |
|          | 2                        | 2   | 2   | -        | -   | -   | -                 | -   | -        | -   | 25             |
|          | 3                        | 3   | -   | -        | 10  | 10  | -                 | -   | -        | -   | 25             |
| WRD149   | 4                        | -   | -   | -        | -   | -   | -                 | -   | -        | -   | 25             |
|          | -                        | -   | 2   | -        | -   | 2   | -                 | 2   | -        | 2   | 25             |
|          | -                        | 3   | 3   | -        | 3   | 3   | -                 | 3   | 3        | 3   | 25             |
|          | 4                        | 4   | 4   | 4        | 4   | 4   | 4                 | 4   | 4        | 4   | 25             |
| WRD179   | 6                        | 6   | 6   | 6        | 6   | 6   | 6                 | 6   | 6        | 6   | 25             |
|          | 1/0                      | 1/0 | -   | -        | -   | 2   | -                 | 2/0 | -        | 2   | 25             |
|          | 1                        | 1   | 1   | -        | 3   | 3   | 1/0               | 1/0 | -        | 3   | 25             |
|          | 2                        | 2   | -   | 4        | 4   | 4   | 1                 | 1   | 4        | 4   | 25             |
| WRD199   | 3                        | -   | -   | 6        | 6   | 6   | 2                 | 2   | 6        | 6   | 25             |
|          | 1/0                      | 1/0 | -   | -        | 1   | 1   | -                 | 2/0 | 1        | 1   | 25             |
|          | 1                        | 1   | 1   | 2        | 2   | 2   | 1/0               | 1/0 | 2        | 2   | 25             |
|          | 2                        | 2   | -   | 3        | 3   | -   | 1                 | 1   | 3        | -   | 25             |
| WRD219   | 3                        | -   | -   | 4        | 4   | -   | 2                 | 2   | 4        | -   | 25             |
|          | 1/0                      | 1/0 | -   | 1/0      | 1/0 | -   | -                 | 2/0 | -        | 2/0 | 25             |
|          | 1                        | 1   | -   | 1        | 1   | -   | 1/0               | 1/0 | 1/0      | 1/0 | 25             |
|          | -                        | -   | -   | 2        | -   | -   | -                 | -   | 1        | -   | 25             |
| WRD259   | -                        | 2/0 | -   | -        | 2/0 | -   | 2/0               | 2/0 | 2/0      | 2/0 | 25             |
|          | 1/0                      | 1/0 | -   | 1/0      | 1/0 | -   | 1/0               | 1/0 | 1/0      | 1/0 | 25             |
|          | 1                        | -   | -   | 1        | -   | -   | -                 | -   | -        | -   | 25             |
| WRD299   | -                        | 3/0 | -   | -        | -   | 2   | 3/0               | 3/0 | -        | 2   | 25             |
|          | 2/0                      | 2/0 | -   | -        | 3   | 3   | 2/0               | -   | -        | 3   | 25             |
|          | 1/0                      | -   | -   | 4        | 4   | 4   | -                 | -   | 4        | 4   | 25             |
|          | -                        | -   | -   | 6        | 6   | 6   | -                 | -   | 6        | 6   | 25             |
| WRD359   | -                        | -   | -   | -        | 1/0 | -   | -                 | -   | -        | -   | 25             |
|          | 4/0                      | 4/0 | -   | 1        | 1   | 1   | 266               | 266 | 1/0      | 1/0 | 25             |
|          | 3/0                      | 3/0 | -   | 2        | 2   | -   | -                 | 250 | 1        | 1   | 25             |
|          | -                        | -   | -   | 3        | 3   | -   | 4/0               | 4/0 | 2        | 2   | 25             |
|          | -                        | -   | -   | 4        | -   | -   | 3/0               | -   | -        | -   | 25             |
| WRD369   | 4/0                      | 4/0 | -   | 1/0      | 1/0 | 1/0 | 266               | 266 | 1/0      | 1/0 | 25             |
|          | 3/0                      | 3/0 | -   | 1        | 1   | 1   | -                 | 250 | 1        | 1   | 25             |
|          | 2/0                      | -   | -   | 2        | 2   | 2   | 4/0               | 4/0 | 2        | 2   | 25             |
|          | -                        | -   | -   | 3        | 3   | -   | 3/0               | 3/0 | 3        | -   | 25             |
|          | -                        | -   | -   | 4        | 4   | -   | -                 | -   | 4        | -   | 25             |
| WRD389   | -                        | -   | -   | -        | -   | -   | 266               | 266 | -        | -   | 25             |
|          | 4/0                      | 4/0 | -   | -        | 3/0 | -   | -                 | 250 | 3/0      | 3/0 | 25             |
|          | 3/0                      | 3/0 | -   | 2/0      | 2/0 | -   | 4/0               | 4/0 | 2/0      | -   | 25             |
|          | -                        | -   | -   | 1/0      | -   | -   | 3/0               | -   | -        | -   | 25             |

# CONNECTORS

## Compression Connectors

### Dual Rated Insulating Covers

#### C Series



#### FEATURES

- Hinged polyurethane cover for easy installation of WRD series tap connectors.
- Eliminates taping.
- Drain ports prevent accumulation of moisture. Ultraviolet stabilized.

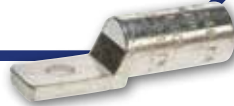
| CAT. NO. | CAPACITY                             | STD. CTN. QTY. |
|----------|--------------------------------------|----------------|
| C2       | All 5/8" OD. Sleeve 2" long or less  | 12             |
| C5       | All "O" die taps 1 3/4" long or less | 12             |
| C7       | All "D" die taps 2 1/2" long or less | 6              |
| C9       | All "N" die taps up to 2" long       | 4              |

# CONNECTORS

## Compression Connectors

### Dual Rated Meter Socket Lugs

#### CAL Series

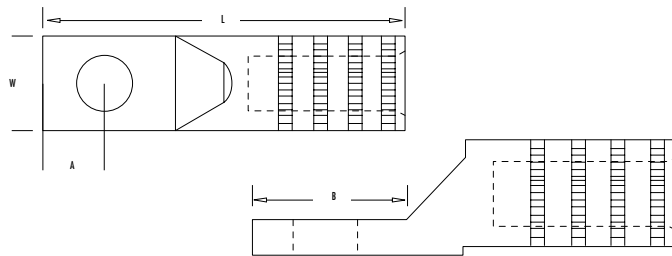


#### SPECIFICATIONS

- Voltage: 600V max.

#### FEATURES

- Made of dead-soft EC grade aluminum.
- 840 common dies – one die installs on all sizes. For aluminum or copper conductors.
- Pre-filled with oxide inhibitor.
- Installing dies (color red): .840, 18, 324, TX, 76, 11A, 249.



| CAT. NO. | CONDUCTOR |       |         | BOLT SIZE (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | TANG LENGTH (B) (IN.) | STD. CTN. QTY. |
|----------|-----------|-------|---------|-----------------|------------------|-----------------|-----------------------|----------------|
|          | STRANDED  | SOLID | COMPACT |                 |                  |                 |                       |                |
| CAL4     | 4         | 3     | 4       | 3/8             | 3.250            | 0.904           | 1.3125                | 12             |
| CAL2     | 2         | 1     | 2       | 3/8             | 3.250            | 0.904           | 1.3125                | 12             |
| CAL1-48  | 1         | 1/0   | 1       | 1/2             | 3.250            | 0.904           | 1.3125                | 12             |
| CAL10    | 1/0       | 2/0   | 1/0     | 3/8             | 3.250            | 0.904           | 1.3125                | 12             |
| CAL20    | 2/0       | 3/0   | 2/0     | 3/8             | 3.250            | 0.904           | 1.3125                | 12             |
| CAL20-48 | 2/0       | 3/0   | 2/0     | 1/2             | 3.250            | 0.904           | 1.3125                | 12             |
| CAL30-48 | 3/0       | 4/0   | 3/0     | 1/2             | 3.250            | 0.904           | 1.3125                | 12             |
| CAL40    | 4/0       | –     | 4/0     | 3/8             | 3.250            | 0.904           | 1.3125                | 12             |
| CAL40-48 | 4/0       | –     | 4/0     | 1/2             | 3.250            | 0.904           | 1.3125                | 12             |

# CONNECTORS

## Compression Connectors

### Dual Rated Insulated Service Entrance Sleeves

#### ISE Series

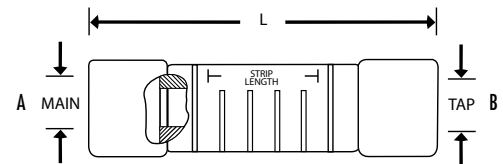


#### SPECIFICATIONS

- Meets or exceeds ANSI C119.4.
- Voltage: 600V max.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..

#### FEATURES

- Pre-insulated service entrance compression sleeves for fast and easy installation with standard tools and dies.
- For combinations of aluminum-aluminum and aluminum-copper conductors.
- Solid center barrier.



| CAT. NO. | DIE SIZE (IN.) | TOOL         | A - CONDUCTOR RANGE |                |            | B - CONDUCTOR RANGE |                  |            | LENGTH (L) (IN.) | STD. CTN. QTY. |
|----------|----------------|--------------|---------------------|----------------|------------|---------------------|------------------|------------|------------------|----------------|
|          |                |              | ACSR                | AWG (*COMPACT) | COLOR CODE | ACSR                | AWG              | COLOR CODE |                  |                |
| ISE61    | 5/8            | OD581        | —                   | 8 STR-6 SOL    | Green      | —                   | 8 STR-6 SOL      | Green      | 2.780            | 50             |
| ISE62    | 5/8            | OD581        | 6                   | 6 STR-4 SOL    | Blue       | —                   | 10 STR-8 SOL     | Brown      | 2.780            | 50             |
| ISE63    | 5/8            | OD581        | 6                   | 6 STR-4 SOL    | Blue       | —                   | 8 STR-6 SOL      | Green      | 2.780            | 50             |
| ISE64    | 5/8            | OD581        | 6                   | 6 STR-4 SOL    | Blue       | 6                   | 6 STR-4 SOL      | Blue       | 2.780            | 50             |
| ISE65    | 5/8            | OD581        | 4                   | 3-4 STR-2 SOL  | Orange     | —                   | 10 STR-8 SOL     | Brown      | 2.780            | 50             |
| ISE66    | 5/8            | OD581        | 4                   | 3-4 STR-2 SOL  | Orange     | —                   | 8 STR-6 SOL      | Green      | 2.780            | 50             |
| ISE67    | 5/8            | OD581        | 4                   | 3-4 STR-2 SOL  | Orange     | 6                   | 6 STR-4 SOL      | Blue       | 2.780            | 50             |
| ISE68    | 5/8            | OD581        | 4                   | 3-4 STR-2 SOL  | Orange     | 4                   | 3-4 STR-2 SOL    | Orange     | 2.780            | 50             |
| ISE71    | 5/8            | OD581        | 2                   | 1-2 STR        | Red        | 6                   | 6 STR-4 SOL      | Blue       | 2.780            | 50             |
| ISE72    | 5/8            | OD581        | 2                   | 1-2 STR        | Red        | 4                   | 3-4 STR-2 SOL    | Orange     | 2.780            | 50             |
| ISE73    | 5/8            | OD581        | 2                   | 1-2 STR        | Red        | 2                   | 1-2 STR          | Red        | 2.780            | 50             |
| ISE76    | 5/8            | OD581        | 1/0                 | 1/0            | Yellow     | 4                   | 3-4 STR-2 SOL    | Orange     | 2.780            | 50             |
| ISE77    | 5/8            | OD581        | 1/0                 | 1/0            | Yellow     | 2                   | 1-2 STR          | Red        | 2.780            | 50             |
| ISE78    | 5/8            | OD581        | 1/0                 | 1/0            | Yellow     | —                   | 1/0 STR          | Yellow     | 2.780            | 50             |
| ISE135   | 0.840          | OD581+BY377C | 1/0                 | 1/0, 2/0 STR*  | Yellow     | 2                   | 1-2 STR          | Red        | 5.500            | 12             |
| ISE136   | 0.840          | OD581+BY377C | 1/0                 | 1/0, 2/0 STR*  | Yellow     | 1/0                 | 1/0 STR, 2/0 COM | Yellow     | 5.500            | 12             |
| ISE144   | 0.840          | OD581+BY377C | 2/0                 | 2/0, 3/0 STR*  | Gray       | 4                   | 3-4 STR-2 SOL    | Orange     | 5.500            | 12             |
| ISE145   | 0.840          | OD581+BY377C | 2/0                 | 2/0, 3/0 STR*  | Gray       | 2                   | 1-2 STR          | Red        | 5.500            | 12             |
| ISE146   | 0.840          | OD581+BY377C | 2/0                 | 2/0, 3/0 STR*  | Gray       | 1/0                 | 1/0 STR, 2/0 COM | Yellow     | 5.500            | 12             |
| ISE147   | 0.840          | OD581+BY377C | 2/0                 | 2/0, 3/0 STR*  | Gray       | 2/0                 | 2/0 STR, 3/0 COM | Gray       | 5.500            | 12             |
| ISE154   | 0.840          | OD581+BY377C | 3/0                 | 3/0, 4/0 STR*  | Black      | 4                   | 3-4 STR, 2 SOL   | Orange     | 5.500            | 12             |
| ISE155   | 0.840          | OD581+BY377C | 3/0                 | 3/0, 4/0 STR*  | Black      | 2                   | 1-2 STR          | Red        | 5.500            | 12             |
| ISE156   | 0.840          | OD581+BY377C | 3/0                 | 3/0, 4/0 STR*  | Black      | 1/0                 | 1/0 STR, 2/0 COM | Yellow     | 5.500            | 12             |
| ISE158   | 0.840          | OD581+BY377C | 3/0                 | 3/0, 4/0 STR*  | Black      | 3/0                 | 3/0 STR, 4/0 COM | Black      | 5.500            | 12             |
| ISE164   | 0.840          | OD581+BY377C | 4/0                 | 4/0 STR        | Pink       | 4                   | 3-4 STR-2 SOL    | Orange     | 5.500            | 12             |
| ISE165   | 0.840          | OD581+BY377C | 4/0                 | 4/0 STR        | Pink       | 2                   | 1-2 STR          | Red        | 5.500            | 12             |
| ISE167   | 0.840          | OD581+BY377C | 4/0                 | 4/0 STR        | Pink       | 2/0                 | 2/0 STR, 3/0 COM | Gray       | 5.500            | 12             |
| ISE168   | 0.840          | OD581+BY377C | 4/0                 | 4/0 STR        | Pink       | 3/0                 | 3/0 STR, 4/0 COM | Black      | 5.500            | 12             |
| ISE169   | 0.840          | OD581+BY377C | 4/0                 | 4/0 STR        | Pink       | 4/0                 | 4/0 STR          | Pink       | 5.500            | 12             |

CONNECTORS



# CONNECTORS

## Compression Connectors

### Long Barrel One Hole Copper Lugs L Series



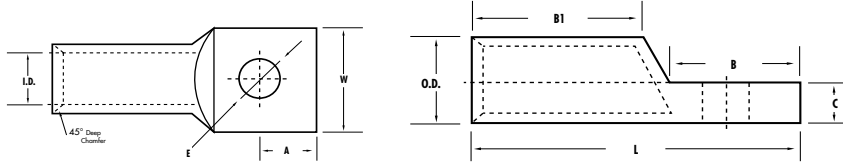
#### FEATURES

- Produced from high conductivity copper tubing.
- Tin-plated to provide corrosion low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV max when properly installed and to cable manufacturer instructions.
- For applications greater than 2000V, consult the cable Manufacturer voltage stress relief instructions.

• Part Numbers ending in "P" have a "peep" or sight inspection hole.

#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V



**\*EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.  
UL Listed with other tools:

**FOR TOOL/DIE CRIMPING INFORMATION,  
PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE** | BOLT SIZE (IN.) | BARREL I.D. | BARREL O.D. | LENGTH (L) (IN.) | WIDTH (W) (IN.) | A (IN.) | B (IN.) | B1 (IN.) | C (IN.) | E (IN.) | COLOR | STD. CTN. QTY. |
|----------|------------|-----------------------|-----------------|-------------|-------------|------------------|-----------------|---------|---------|----------|---------|---------|-------|----------------|
| L810     | 8 AWG      | 8 - 10 AWG            | #10             | 0.205       | 0.295       | 1.520            | 0.420           | 0.280   | 0.590   | 0.810    | 0.080   | 0.210   | Red   | 100            |
| L810P    | 8 AWG      | 8 - 10 AWG            | #10             | 0.205       | 0.295       | 1.520            | 0.420           | 0.280   | 0.590   | 0.810    | 0.080   | 0.210   | Red   | 100            |
| L814     | 8 AWG      | 8 - 10 AWG            | 1/4"            | 0.205       | 0.295       | 1.520            | 0.420           | 0.280   | 0.590   | 0.810    | 0.080   | 0.252   | Red   | 100            |
| L814P    | 8 AWG      | 8 - 10 AWG            | 1/4"            | 0.205       | 0.295       | 1.520            | 0.420           | 0.280   | 0.590   | 0.810    | 0.080   | 0.252   | Red   | 100            |
| L838     | 8 AWG      | 8 - 10 AWG            | 3/8"            | 0.205       | 0.295       | 1.520            | 0.420           | 0.280   | 0.590   | 0.810    | 0.080   | 0.413   | Red   | 100            |
| L838P    | 8 AWG      | 8 - 10 AWG            | 3/8"            | 0.205       | 0.295       | 1.520            | 0.420           | 0.280   | 0.590   | 0.810    | 0.080   | 0.413   | Red   | 100            |
| L610     | 6 AWG      | 6 - 8 AWG             | #10             | 0.205       | 0.295       | 1.770            | 0.420           | 0.300   | 0.640   | 0.980    | 0.083   | 0.210   | Blue  | 100            |
| L614     | 6 AWG      | 6 - 8 AWG             | 1/4"            | 0.205       | 0.295       | 1.772            | 0.421           | 0.295   | 0.669   | 0.984    | 0.083   | 0.252   | Blue  | 100            |
| L614P    | 6 AWG      | 6 - 8 AWG             | 1/4"            | 0.205       | 0.295       | 1.772            | 0.421           | 0.295   | 0.669   | 0.984    | 0.083   | 0.252   | Blue  | 100            |
| L638     | 6 AWG      | 6 - 8 AWG             | 3/8"            | 0.205       | 0.295       | 1.913            | 0.591           | 0.370   | 0.811   | 0.984    | 0.083   | 0.413   | Blue  | 100            |
| L638P    | 6 AWG      | 6 - 8 AWG             | 3/8"            | 0.205       | 0.295       | 1.913            | 0.591           | 0.370   | 0.811   | 0.984    | 0.083   | 0.413   | Blue  | 100            |
| L656     | 6 AWG      | 6 - 8 AWG             | 5/16"           | 0.205       | 0.295       | 1.910            | 0.590           | 0.370   | 0.810   | 0.980    | 0.083   | 0.330   | Blue  | 100            |
| L656P    | 6 AWG      | 6 - 8 AWG             | 5/16"           | 0.205       | 0.295       | 1.910            | 0.590           | 0.370   | 0.810   | 0.980    | 0.083   | 0.330   | Blue  | 100            |
| L410     | 4 AWG      | 4 - 6 AWG             | #10             | 0.252       | 0.343       | 1.770            | 0.488           | 0.315   | 0.669   | 0.980    | 0.087   | 0.210   | Gray  | 100            |
| L414     | 4 AWG      | 4 - 6 AWG             | 1/4"            | 0.252       | 0.343       | 1.772            | 0.488           | 0.315   | 0.669   | 0.984    | 0.087   | 0.252   | Gray  | 100            |
| L414P    | 4 AWG      | 4 - 6 AWG             | 1/4"            | 0.252       | 0.343       | 1.772            | 0.488           | 0.315   | 0.669   | 0.984    | 0.087   | 0.252   | Gray  | 100            |
| L438     | 4 AWG      | 4 - 6 AWG             | 3/8"            | 0.252       | 0.343       | 1.913            | 0.591           | 0.370   | 0.811   | 0.984    | 0.087   | 0.413   | Gray  | 100            |
| L438P    | 4 AWG      | 4 - 6 AWG             | 3/8"            | 0.252       | 0.343       | 1.913            | 0.591           | 0.370   | 0.811   | 0.984    | 0.087   | 0.413   | Gray  | 100            |
| L456     | 4 AWG      | 4 - 6 AWG             | 5/16"           | 0.252       | 0.343       | 1.772            | 0.488           | 0.315   | 0.669   | 0.984    | 0.087   | 0.331   | Gray  | 100            |
| L456P    | 4 AWG      | 4 - 6 AWG             | 5/16"           | 0.252       | 0.343       | 1.772            | 0.488           | 0.315   | 0.669   | 0.984    | 0.087   | 0.331   | Gray  | 100            |
| L314     | 3 AWG      | 3 - 6 AWG             | 1/4"            | 0.270       | 0.377       | 2.344            | 0.531           | 0.323   | 0.828   | 1.169    | 0.097   | 0.277   | White | 100            |
| L356     | 3 AWG      | 3 - 6 AWG             | 5/16"           | 0.270       | 0.377       | 2.157            | 0.538           | 0.346   | 0.767   | 1.120    | 0.091   | 0.336   | White | 50             |

# CONNECTORS

## Compression Connectors

### Long Barrel One Hole Copper Lugs

#### L Series Cont'd



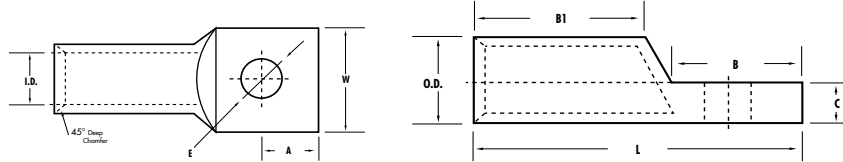
#### FEATURES

- Produced from high conductivity copper tubing.
- Tin-plated to provide corrosion low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV max when properly installed and to cable manufacturer instructions.
- For applications greater than 2000V, consult the cable Manufacturer for voltage stress relief instructions.
- **Part Numbers ending in "P" have a "peep" or sight inspection hole.**

#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V

CONNECTORS



**\*EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE** | BOLT SIZE (IN.) | BARREL I.D. | BARREL O.D. | LENGTH (L) (IN.) | WIDTH (W) (IN.) | A (IN.) | B (IN.) | B1 (IN.) | C (IN.) | E (IN.) | COLOR | STD. CTN. QTY. |
|----------|------------|-----------------------|-----------------|-------------|-------------|------------------|-----------------|---------|---------|----------|---------|---------|-------|----------------|
| L356     | 3 AWG      | 3 - 6 AWG             | 5/16"           | 0.270       | 0.377       | 2.157            | 0.538           | 0.346   | 0.767   | 1.120    | 0.091   | 0.336   | White | 50             |
| L338     | 3 AWG      | 3 - 6 AWG             | 3/8"            | 0.270       | 0.377       | 2.351            | 0.550           | 0.418   | 0.823   | 1.188    | 0.083   | 0.397   | White | 50             |
| L214     | 2 AWG      | 2 - 6 AWG             | 1/4"            | 0.315       | 0.421       | 2.071            | 0.602           | 0.206   | 0.811   | 1.102    | 0.102   | 0.252   | Brown | 50             |
| L214P    | 2 AWG      | 2 - 6 AWG             | 1/4"            | 0.315       | 0.421       | 2.071            | 0.602           | 0.206   | 0.811   | 1.102    | 0.102   | 0.252   | Brown | 50             |
| L256     | 2 AWG      | 2 - 6 AWG             | 5/16"           | 0.315       | 0.421       | 2.071            | 0.602           | 0.370   | 0.811   | 1.102    | 0.102   | 0.331   | Brown | 50             |
| L256P    | 2 AWG      | 2 - 6 AWG             | 5/16"           | 0.315       | 0.421       | 2.071            | 0.602           | 0.370   | 0.811   | 1.102    | 0.102   | 0.331   | Brown | 50             |
| L238     | 2 AWG      | 2 - 6 AWG             | 3/8"            | 0.315       | 0.421       | 2.071            | 0.602           | 0.370   | 0.811   | 1.102    | 0.102   | 0.413   | Brown | 50             |
| L238P    | 2 AWG      | 2 - 6 AWG             | 3/8"            | 0.315       | 0.421       | 2.071            | 0.602           | 0.370   | 0.811   | 1.102    | 0.102   | 0.413   | Brown | 50             |
| L156     | 1 AWG      | 1 - 6 AWG             | 5/16"           | 0.358       | 0.469       | 2.110            | 0.673           | 0.370   | 0.811   | 1.102    | 0.106   | 0.331   | Green | 50             |
| L138     | 1 AWG      | 1 - 6 AWG             | 3/8"            | 0.358       | 0.469       | 2.209            | 0.673           | 0.370   | 0.811   | 1.102    | 0.106   | 0.413   | Green | 50             |
| L1014    | 1/0 AWG    | 1/0 - 6 AWG           | 1/4"            | 0.390       | 0.520       | 2.210            | 0.744           | 0.370   | 0.811   | 1.201    | 0.126   | 0.210   | Pink  | 50             |
| L1014P   | 1/0 AWG    | 1/0 - 6 AWG           | 1/4"            | 0.390       | 0.520       | 2.210            | 0.744           | 0.370   | 0.811   | 1.201    | 0.126   | 0.210   | Pink  | 50             |
| L1038    | 1/0 AWG    | 1/0 - 6 AWG           | 3/8"            | 0.390       | 0.520       | 2.209            | 0.744           | 0.370   | 0.811   | 1.201    | 0.126   | 0.413   | Pink  | 50             |
| L1038P   | 1/0 AWG    | 1/0 - 6 AWG           | 3/8"            | 0.390       | 0.520       | 2.209            | 0.744           | 0.370   | 0.811   | 1.201    | 0.126   | 0.413   | Pink  | 50             |
| L1056    | 1/0 AWG    | 1/0 - 6 AWG           | 5/16"           | 0.390       | 0.520       | 2.210            | 0.744           | 0.370   | 0.811   | 1.201    | 0.126   | 0.330   | Pink  | 50             |
| L1056P   | 1/0 AWG    | 1/0 - 6 AWG           | 5/16"           | 0.390       | 0.520       | 2.210            | 0.744           | 0.370   | 0.811   | 1.201    | 0.126   | 0.330   | Pink  | 50             |
| L1048    | 1/0 AWG    | 1/0 - 6 AWG           | 1/2"            | 0.390       | 0.520       | 2.500            | 0.744           | 0.472   | 1.063   | 1.201    | 0.126   | 0.512   | Pink  | 50             |
| L2014    | 2/0 AWG    | 2/0 - 4 AWG           | 1/4"            | 0.441       | 0.563       | 2.677            | 0.815           | 0.472   | 1.063   | 1.378    | 0.118   | 0.252   | Black | 25             |
| L2014P   | 2/0 AWG    | 2/0 - 4 AWG           | 1/4"            | 0.441       | 0.563       | 2.677            | 0.815           | 0.472   | 1.063   | 1.378    | 0.118   | 0.252   | Black | 25             |
| L2038    | 2/0 AWG    | 2/0 - 4 AWG           | 3/8"            | 0.441       | 0.563       | 2.677            | 0.815           | 0.472   | 1.063   | 1.378    | 0.118   | 0.413   | Black | 25             |
| L2038P   | 2/0 AWG    | 2/0 - 4 AWG           | 3/8"            | 0.441       | 0.563       | 2.677            | 0.815           | 0.472   | 1.063   | 1.378    | 0.118   | 0.413   | Black | 25             |
| L2048    | 2/0 AWG    | 2/0 - 4 AWG           | 1/2"            | 0.441       | 0.563       | 2.677            | 0.815           | 0.472   | 1.063   | 1.378    | 0.118   | 0.512   | Black | 25             |

# CONNECTORS

## Compression Connectors

### Long Barrel One Hole Copper Lugs L Series Cont'd

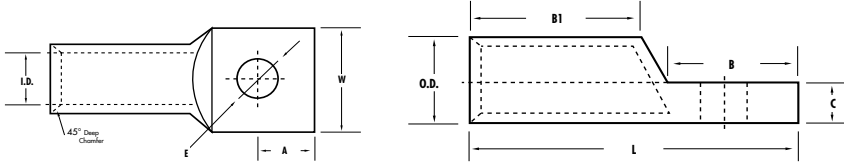


#### FEATURES

- Produced from high conductivity copper tubing.
- Tin-plated to provide corrosion low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV max when properly installed and to cable manufacturer instructions.
- For applications greater than 2000V, consult the cable Manufacturer voltage stress relief instructions.
- **Part Numbers ending in "P" have a "peep" or sight inspection hole.**

#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V



**\*EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE** | BOLT SIZE (IN.) | BARREL I.D. | BARREL O.D. | LENGTH (L) (IN.) | WIDTH (W) (IN.) | A (IN.) | B (IN.) | B1 (IN.) | C (IN.) | E (IN.) | COLOR  | STD. CTN. QTY. |
|----------|------------|-----------------------|-----------------|-------------|-------------|------------------|-----------------|---------|---------|----------|---------|---------|--------|----------------|
| L2048P   | 2/0 AWG    | 2/0 - 4 AWG           | 1/2"            | 0.441       | 0.563       | 2.677            | 0.815           | 0.472   | 1.063   | 1.378    | 0.118   | 0.512   | Black  | 25             |
| L3014    | 3/0 AWG    | 3/0 - 2 AWG           | 1/4"            | 0.492       | 0.622       | 2.795            | 0.902           | 0.472   | 1.063   | 1.378    | 0.126   | 0.252   | Orange | 25             |
| L3014P   | 3/0 AWG    | 3/0 - 2 AWG           | 1/4"            | 0.492       | 0.622       | 2.795            | 0.902           | 0.472   | 1.063   | 1.378    | 0.126   | 0.252   | Orange | 25             |
| L3038    | 3/0 AWG    | 3/0 - 2 AWG           | 3/8"            | 0.492       | 0.622       | 2.795            | 0.902           | 0.472   | 1.063   | 1.378    | 0.126   | 0.413   | Orange | 25             |
| L3038P   | 3/0 AWG    | 3/0 - 2 AWG           | 3/8"            | 0.492       | 0.622       | 2.795            | 0.902           | 0.472   | 1.063   | 1.378    | 0.126   | 0.413   | Orange | 25             |
| L3048    | 3/0 AWG    | 3/0 - 2 AWG           | 1/2"            | 0.492       | 0.622       | 2.795            | 0.902           | 0.472   | 1.063   | 1.378    | 0.126   | 0.512   | Orange | 25             |
| L3048P   | 3/0 AWG    | 3/0 - 2 AWG           | 1/2"            | 0.492       | 0.622       | 2.795            | 0.902           | 0.472   | 1.063   | 1.378    | 0.126   | 0.512   | Orange | 25             |
| L4014    | 4/0 AWG    | 4/0 - 1 AWG           | 1/4"            | 0.547       | 0.689       | 2.795            | 1.000           | 0.520   | 1.063   | 1.417    | 0.134   | 0.252   | Purple | 25             |
| L4014P   | 4/0 AWG    | 4/0 - 1 AWG           | 1/4"            | 0.547       | 0.689       | 2.795            | 1.000           | 0.520   | 1.063   | 1.417    | 0.134   | 0.252   | Purple | 25             |
| L4038    | 4/0 AWG    | 4/0 - 1 AWG           | 3/8"            | 0.547       | 0.689       | 2.795            | 1.000           | 0.520   | 1.063   | 1.417    | 0.134   | 0.413   | Purple | 25             |
| L4038P   | 4/0 AWG    | 4/0 - 1 AWG           | 3/8"            | 0.547       | 0.689       | 2.795            | 1.000           | 0.520   | 1.063   | 1.417    | 0.134   | 0.413   | Purple | 25             |
| L4048    | 4/0 AWG    | 4/0 - 1 AWG           | 1/2"            | 0.547       | 0.689       | 2.795            | 1.000           | 0.520   | 1.063   | 1.417    | 0.134   | 0.512   | Purple | 25             |
| L4048P   | 4/0 AWG    | 4/0 - 1 AWG           | 1/2"            | 0.547       | 0.689       | 2.795            | 1.000           | 0.520   | 1.063   | 1.417    | 0.134   | 0.512   | Purple | 25             |
| L25048   | 250 MCM    | 250 MCM - 1/0 AWG     | 1/2"            | 0.594       | 0.752       | 3.031            | 1.091           | 0.520   | 1.063   | 1.614    | 0.150   | 0.512   | Yellow | 25             |
| L30048   | 300 MCM    | 300 MCM - 2/0 AWG     | 1/2"            | 0.657       | 0.815       | 3.386            | 1.189           | 0.520   | 1.063   | 1.969    | 0.150   | 0.512   | White  | 12             |
| L35048   | 350 MCM    | 350 MCM - 3/0 AWG     | 1/2"            | 0.701       | 0.874       | 3.465            | 1.276           | 0.520   | 1.063   | 1.969    | 0.165   | 0.512   | Red    | 12             |
| L40048   | 400 MCM    | 400 MCM - 4/0 AWG     | 1/2"            | 0.764       | 0.949       | 3.858            | 1.386           | 0.512   | 1.378   | 1.969    | 0.177   | 0.512   | Blue   | 6              |
| L50048   | 500 MCM    | 500 - 250 MCM         | 1/2"            | 0.835       | 1.063       | 4.134            | 1.539           | 0.512   | 1.378   | 2.244    | 0.217   | 0.512   | Brown  | 6              |
| L50058   | 500 MCM    | 500 - 250 MCM         | 5/8"            | 0.835       | 1.063       | 4.134            | 1.539           | 0.512   | 1.378   | 2.244    | 0.217   | 0.669   | Brown  | 6              |
| L60058   | 600 MCM    | 600 - 250 MCM         | 5/8"            | 0.925       | 1.189       | 4.252            | 1.717           | 0.689   | 1.457   | 2.244    | 0.252   | 0.669   | Green  | 6              |
| L75048   | 750 MCM    | 750 - 500 MCM         | 1/2"            | 1.031       | 1.311       | 5.157            | 1.902           | 0.689   | 1.850   | 2.638    | 0.268   | 0.512   | Black  | 3              |
| L75058   | 750 MCM    | 750 - 500 MCM         | 5/8"            | 1.031       | 1.311       | 5.157            | 1.902           | 0.689   | 1.850   | 2.638    | 0.268   | 0.669   | Black  | 3              |
| L10058   | 1000 MCM   | -                     | 5/8"            | 1.184       | 1.494       | 5.613            | 2.148           | 0.866   | 1.776   | 2.603    | 0.328   | 0.663   | White  | 3              |

# CONNECTORS

## Compression Connectors

### Long Barrel Copper Lugs Two Hole LN Series

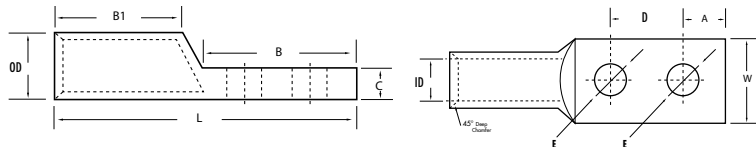


#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V.
- 9CU.

#### FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable manufacturer voltage stress relief instructions.
- Part Numbers ending in "P" have a "peep" or sight inspection hole.



**\*EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR | BOLT SIZE (IN.) | MTG. HOLE SPACING (D) (IN.) | BARREL I.D. | BARREL O.D. | LENGTH (L) (IN.) | WIDTH (W) | END OF CONN TO CTR. (A) (IN.) | TANG LENGTH (B) (IN.) | BARREL LENGTH (B1) (IN.) | TANG THICKNESS (C) (IN.) | MTG. HOLE DIA. (E) (IN.) | STD. CTN. QTY. |
|----------|------------|----------------------|-------|-----------------|-----------------------------|-------------|-------------|------------------|-----------|-------------------------------|-----------------------|--------------------------|--------------------------|--------------------------|----------------|
| L8N-14   | 8 AWG      | 8 - 10 AWG           | Red   | 1/4"            | 1.000                       | 0.205       | 0.295       | 2.240            | 0.420     | 0.280                         | 1.140                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L8N-14P  | 8 AWG      | 8 - 10 AWG           | Red   | 1/4"            | 1.000                       | 0.205       | 0.295       | 2.240            | 0.420     | 0.280                         | 1.140                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L8N-141  | 8 AWG      | 8 - 10 AWG           | Red   | 1/4"            | 0.625                       | 0.205       | 0.295       | 2.240            | 0.420     | 0.280                         | 1.140                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L8N-141P | 8 AWG      | 8 - 10 AWG           | Red   | 1/4"            | 0.625                       | 0.205       | 0.295       | 2.240            | 0.420     | 0.280                         | 1.140                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L8N-142  | 8 AWG      | 8 - 10 AWG           | Red   | 1/4"            | 0.750                       | 0.205       | 0.295       | 2.240            | 0.420     | 0.280                         | 1.140                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L8N-142P | 8 AWG      | 8 - 10 AWG           | Red   | 1/4"            | 0.750                       | 0.205       | 0.295       | 2.240            | 0.420     | 0.280                         | 1.140                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L8N-563  | 8 AWG      | 8 - 10 AWG           | Blue  | 5/16"           | 1.750                       | 0.205       | 0.295       | 2.240            | 0.420     | 0.280                         | 1.140                 | 0.980                    | 0.080                    | 0.312                    | 100            |
| L8N-563P | 8 AWG      | 8 - 10 AWG           | Blue  | 5/16"           | 1.750                       | 0.205       | 0.295       | 2.240            | 0.420     | 0.280                         | 1.140                 | 0.980                    | 0.080                    | 0.312                    | 100            |
| L6N-12   | 6 AWG      | 6 - 8 AWG            | Blue  | 1/4"            | 0.500                       | 0.200       | 0.300       | 2.240            | 0.420     | 0.280                         | 1.140                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L6N-14   | 6 AWG      | 6 - 8 AWG            | Blue  | 1/4"            | 0.625                       | 0.200       | 0.300       | 2.360            | 0.420     | 0.280                         | 1.260                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L6N-14P  | 6 AWG      | 6 - 8 AWG            | Blue  | 1/4"            | 0.625                       | 0.200       | 0.300       | 2.360            | 0.420     | 0.280                         | 1.260                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L6N-141  | 6 AWG      | 6 - 8 AWG            | Blue  | 1/4"            | 0.625                       | 0.200       | 0.300       | 2.480            | 0.420     | 1.260                         | 1.380                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L6N-141P | 6 AWG      | 6 - 8 AWG            | Blue  | 1/4"            | 0.625                       | 0.200       | 0.300       | 2.480            | 0.420     | 1.260                         | 1.380                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L6N-142  | 6 AWG      | 6 - 8 AWG            | Blue  | 1/4"            | 0.750                       | 0.200       | 0.300       | 2.480            | 0.420     | 0.280                         | 1.380                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L6N-143  | 6 AWG      | 6 - 8 AWG            | Blue  | 1/4"            | 1.000                       | 0.200       | 0.300       | 2.480            | 0.420     | 0.280                         | 1.380                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L6N-142P | 6 AWG      | 6 - 8 AWG            | Blue  | 1/4"            | 0.750                       | 0.200       | 0.300       | 2.480            | 0.420     | 0.280                         | 1.380                 | 0.980                    | 0.080                    | 0.261                    | 100            |
| L6N-38   | 6 AWG      | 6 - 8 AWG            | Blue  | 3/8"            | 1.000                       | 0.200       | 0.300       | 2.910            | 0.420     | 0.380                         | 1.810                 | 0.980                    | 0.080                    | 0.410                    | 100            |
| L6N-38P  | 6 AWG      | 6 - 8 AWG            | Blue  | 3/8"            | 1.000                       | 0.200       | 0.300       | 2.910            | 0.420     | 0.380                         | 1.810                 | 0.980                    | 0.080                    | 0.410                    | 100            |
| L6N-382  | 6 AWG      | 6 - 8 AWG            | Blue  | 3/8"            | 0.750                       | 0.200       | 0.300       | 4.090            | 0.870     | 0.620                         | 2.990                 | 0.980                    | 0.120                    | 0.410                    | 100            |
| L6N-382P | 6 AWG      | 6 - 8 AWG            | Blue  | 3/8"            | 0.750                       | 0.200       | 0.300       | 4.090            | 0.870     | 0.620                         | 2.990                 | 0.980                    | 0.120                    | 0.410                    | 100            |
| L6N      | 6 AWG      | 6 - 8 AWG            | Blue  | 1/2"            | 1.750                       | 0.200       | 0.300       | 4.090            | 0.870     | 0.620                         | 2.990                 | 0.980                    | 0.120                    | 0.510                    | 100            |
| L6NP     | 6 AWG      | 6 - 8 AWG            | Blue  | 1/2"            | 1.750                       | 0.200       | 0.300       | 4.090            | 0.870     | 0.620                         | 2.990                 | 0.980                    | 0.120                    | 0.510                    | 100            |
| L4N-14   | 4 AWG      | 4 - 6 AWG            | Gray  | 1/4"            | 0.625                       | 0.250       | 0.340       | 2.360            | 0.490     | 0.280                         | 1.260                 | 0.980                    | 0.090                    | 0.261                    | 100            |

CONNECTORS

# CONNECTORS

## Compression Connectors

### Long Barrel, Copper Lugs Two Hole LN Series Cont'd



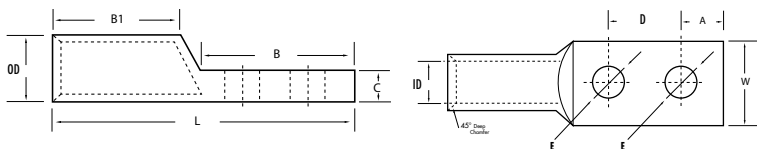
#### FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, installed to cable Manufacturer for voltage stress relief instructions.

• Part Numbers ending in "P" have a "peep" or sight inspection hole.

#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V.
- 9CU.



**\*EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR | BOLT SIZE (IN.) | MTG. HOLE SPACING (D) (IN.) | BARREL I.D. | BARREL O.D. | LENGTH (L) (IN.) | WIDTH (W) | END OF CONN TO CTR. (A) (IN.) | TANG LENGTH (B) (IN.) | BARREL LENGTH (B1) (IN.) | TANG THICKNESS (C) (IN.) | MTG. HOLE DIA. (E) (IN.) | STD. CTN. QTY. |
|----------|------------|----------------------|-------|-----------------|-----------------------------|-------------|-------------|------------------|-----------|-------------------------------|-----------------------|--------------------------|--------------------------|--------------------------|----------------|
| L4N-14P  | 4 AWG      | 4 - 6 AWG            | Gray  | 1/4"            | 0.625                       | 0.250       | 0.340       | 2.360            | 0.490     | 0.280                         | 1.260                 | 0.980                    | 0.090                    | 0.261                    | 100            |
| L4N-141  | 4 AWG      | 4 - 6 AWG            | Gray  | 1/4"            | 0.625                       | 0.250       | 0.340       | 2.95             | 0.420     | 0.380                         | 1.810                 | 0.980                    | 0.90                     | 0.261                    | 100            |
| L4N-141P | 4 AWG      | 4 - 6 AWG            | Gray  | 1/4"            | 0.625                       | 0.250       | 0.340       | 2.950            | 0.420     | 0.380                         | 1.810                 | 0.980                    | 0.090                    | 0.261                    | 100            |
| L4N-142  | 4 AWG      | 4 - 6 AWG            | Gray  | 1/4"            | 0.750                       | 0.250       | 0.340       | 2.95             | 0.420     | 0.380                         | 1.810                 | 0.980                    | 0.90                     | 0.261                    | 100            |
| L4N-142P | 4 AWG      | 4 - 6 AWG            | Gray  | 1/4"            | 0.750                       | 0.250       | 0.340       | 2.950            | 0.420     | 0.380                         | 1.810                 | 0.980                    | 0.090                    | 0.261                    | 100            |
| L4N-38   | 4 AWG      | 4 - 6 AWG            | Gray  | 3/8"            | 1.000                       | 0.250       | 0.340       | 2.950            | 0.420     | 0.380                         | 1.810                 | 0.980                    | 0.090                    | 0.410                    | 100            |
| L4N-38P  | 4 AWG      | 4 - 6 AWG            | Gray  | 3/8"            | 1.000                       | 0.250       | 0.340       | 2.950            | 0.420     | 0.380                         | 1.810                 | 0.980                    | 0.090                    | 0.410                    | 100            |
| L4N-382  | 4 AWG      | 4 - 6 AWG            | Gray  | 3/8"            | 0.750                       | 0.250       | 0.340       | 4.090            | 0.870     | 0.620                         | 2.990                 | 0.980                    | 0.120                    | 0.410                    | 100            |
| L4N-382P | 4 AWG      | 4 - 6 AWG            | Gray  | 3/8"            | 0.750                       | 0.250       | 0.340       | 4.090            | 0.870     | 0.620                         | 2.990                 | 0.980                    | 0.120                    | 0.410                    | 100            |
| L4N      | 4 AWG      | 4 - 6 AWG            | Gray  | 1/2"            | 1.750                       | 0.250       | 0.340       | 4.090            | 0.870     | 0.620                         | 2.990                 | 0.980                    | 0.120                    | 0.510                    | 100            |
| L4N-P    | 4 AWG      | 4 - 6 AWG            | Gray  | 1/2"            | 1.750                       | 0.250       | 0.340       | 4.090            | 0.870     | 0.620                         | 2.990                 | 0.980                    | 0.120                    | 0.510                    | 100            |
| L2N-14   | 2 AWG      | 2 - 6 AWG            | Brown | 1/4"            | 1.000                       | 0.310       | 0.420       | 2.520            | 0.600     | 0.280                         | 1.260                 | 1.100                    | 0.100                    | 0.252                    | 50             |
| L2N-14P  | 2 AWG      | 2 - 6 AWG            | Brown | 1/4"            | 1.000                       | 0.310       | 0.420       | 2.520            | 0.600     | 0.280                         | 1.260                 | 1.100                    | 0.100                    | 0.252                    | 50             |
| L2N-141  | 2 AWG      | 2 - 6 AWG            | Brown | 1/4"            | 0.625                       | 0.310       | 0.420       | 2.520            | 0.600     | 0.280                         | 1.260                 | 1.100                    | 0.100                    | 0.250                    | 50             |
| L2N-141P | 2 AWG      | 2 - 6 AWG            | Brown | 1/4"            | 0.625                       | 0.310       | 0.420       | 2.520            | 0.600     | 0.280                         | 1.260                 | 1.100                    | 0.100                    | 0.250                    | 50             |
| L2N-142  | 2 AWG      | 2 - 6 AWG            | Brown | 1/4"            | 0.750                       | 0.310       | 0.420       | 2.640            | 0.600     | 0.280                         | 1.380                 | 1.100                    | 0.100                    | 0.250                    | 50             |
| L2N-38   | 2 AWG      | 2 - 6 AWG            | Brown | 3/8"            | 1.000                       | 0.310       | 0.420       | 3.070            | 0.600     | 0.380                         | 1.810                 | 1.100                    | 0.100                    | 0.410                    | 50             |
| L2N-38P  | 2 AWG      | 2 - 6 AWG            | Brown | 3/8"            | 1.000                       | 0.310       | 0.420       | 3.070            | 0.600     | 0.380                         | 1.810                 | 1.100                    | 0.100                    | 0.410                    | 50             |
| L2N-382  | 2 AWG      | 2 - 6 AWG            | Brown | 3/8"            | 0.750                       | 0.310       | 0.420       | 4.250            | 0.810     | 0.620                         | 2.990                 | 1.100                    | 0.100                    | 0.410                    | 50             |
| L2N-382P | 2 AWG      | 2 - 6 AWG            | Brown | 3/8"            | 0.750                       | 0.310       | 0.420       | 4.250            | 0.810     | 0.620                         | 2.990                 | 1.100                    | 0.100                    | 0.410                    | 50             |
| L2N-383  | 2 AWG      | 2 - 6 AWG            | Brown | 3/8"            | 1.750                       | 0.310       | 0.420       | 4.250            | 0.810     | 0.620                         | 2.990                 | 1.100                    | 0.100                    | 0.410                    | 50             |
| L2N-383P | 2 AWG      | 2 - 6 AWG            | Brown | 3/8"            | 1.750                       | 0.310       | 0.420       | 4.250            | 0.810     | 0.620                         | 2.990                 | 1.100                    | 0.100                    | 0.410                    | 50             |
| L2N-56   | 2 AWG      | 2 - 6 AWG            | Brown | 5/16"           | 0.750                       | 0.310       | 0.420       | 2.870            | 0.600     | 0.320                         | 1.610                 | 1.100                    | 0.100                    | 0.330                    | 50             |
| L2N      | 2 AWG      | 2 - 6 AWG            | Brown | 1/2"            | 1.750                       | 0.310       | 0.420       | 4.250            | 0.810     | 0.620                         | 2.990                 | 1.100                    | 0.100                    | 0.510                    | 50             |
| L2N-P    | 2 AWG      | 2 - 6 AWG            | Brown | 1/2"            | 1.750                       | 0.310       | 0.420       | 4.250            | 0.810     | 0.620                         | 2.990                 | 1.100                    | 0.100                    | 0.510                    | 50             |
| L1N-141  | 1 AWG      | 1 - 6 AWG            | Green | 1/4"            | 0.630                       | 0.360       | 0.470       | 2.560            | 0.670     | 0.280                         | 1.260                 | 1.100                    | 0.110                    | 0.250                    | 50             |

# CONNECTORS

## Compression Connectors

Long Barrel, Copper Lugs Two Hole  
LN Series Cont'd

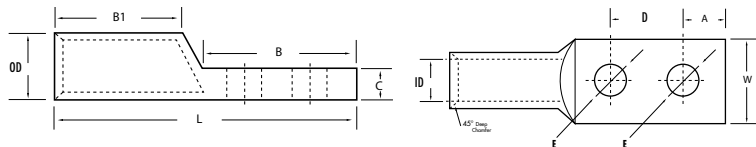


### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V.
- 9CU.

### FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, install to cable Manufacturer voltage stress relief instructions.
- Part Numbers ending in "P" have a "peep" or sight inspection hole.



**\*EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO.  | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR  | BOLT SIZE (IN.) | MTG. HOLE SPACING (D) (IN.) | BARREL I.D. | BARREL O.D. | LENGTH (L) (IN.) | WIDTH (W) | END OF CONN TO CTR. (A) (IN.) | TANG LENGTH (B) (IN.) | BARREL LENGTH (B1) (IN.) | TANG THICKNESS (C) (IN.) | MTG. HOLE DIA. (E) (IN.) | STD. CTN. QTY. |
|-----------|------------|----------------------|--------|-----------------|-----------------------------|-------------|-------------|------------------|-----------|-------------------------------|-----------------------|--------------------------|--------------------------|--------------------------|----------------|
| L1N-38    | 1 AWG      | 1 - 6 AWG            | Green  | 3/8"            | 1.000                       | 0.360       | 0.470       | 3.070            | 0.670     | 0.380                         | 1.810                 | 1.100                    | 0.110                    | 0.410                    | 50             |
| L1N-56    | 1 AWG      | 1 - 6 AWG            | Green  | 5/16"           | 0.870                       | 0.360       | 0.470       | 2.930            | 0.670     | 0.320                         | 1.610                 | 1.100                    | 0.110                    | 0.330                    | 50             |
| L1N       | 1 AWG      | 1 - 6 AWG            | Green  | 1/2"            | 1.750                       | 0.360       | 0.470       | 4.290            | 0.750     | 0.620                         | 2.990                 | 1.100                    | 0.100                    | 0.510                    | 50             |
| L10N-14   | 1/0 AWG    | 1/0 - 6 AWG          | Pink   | 1/4"            | 1.000                       | 0.390       | 0.520       | 3.210            | 0.740     | 0.380                         | 1.810                 | 1.200                    | 0.130                    | 0.252                    | 50             |
| L10N-14P  | 1/0 AWG    | 1/0 - 6 AWG          | Pink   | 1/4"            | 1.000                       | 0.390       | 0.520       | 3.210            | 0.740     | 0.380                         | 1.810                 | 1.200                    | 0.130                    | 0.252                    | 50             |
| L10N-38   | 1/0 AWG    | 1/0 - 6 AWG          | Pink   | 3/8"            | 1.000                       | 0.390       | 0.520       | 3.210            | 0.740     | 0.380                         | 1.810                 | 1.200                    | 0.130                    | 0.410                    | 50             |
| L10N-38P  | 1/0 AWG    | 1/0 - 6 AWG          | Pink   | 3/8"            | 1.000                       | 0.390       | 0.520       | 3.210            | 0.740     | 0.380                         | 1.810                 | 1.200                    | 0.130                    | 0.410                    | 50             |
| L10N-382  | 1/0 AWG    | 1/0 - 6 AWG          | Pink   | 3/8"            | 0.750                       | 0.390       | 0.520       | 4.630            | 0.740     | 0.620                         | 2.990                 | 1.200                    | 0.120                    | 0.410                    | 50             |
| L10N-382P | 1/0 AWG    | 1/0 - 6 AWG          | Pink   | 3/8"            | 0.750                       | 0.390       | 0.520       | 4.630            | 0.740     | 0.620                         | 2.990                 | 1.200                    | 0.120                    | 0.410                    | 50             |
| L10N-383  | 1/0 AWG    | 1/0 - 6 AWG          | Pink   | 3/8"            | 1.750                       | 0.390       | 0.520       | 4.630            | 0.740     | 0.620                         | 2.990                 | 1.200                    | 0.120                    | 0.410                    | 50             |
| L10N-383P | 1/0 AWG    | 1/0 - 6 AWG          | Pink   | 3/8"            | 1.750                       | 0.390       | 0.520       | 4.630            | 0.740     | 0.620                         | 2.990                 | 1.200                    | 0.120                    | 0.410                    | 50             |
| L10N      | 1/0 AWG    | 1/0 - 6 AWG          | Pink   | 1/2"            | 1.750                       | 0.390       | 0.520       | 4.630            | 0.740     | 0.620                         | 2.990                 | 1.200                    | 0.120                    | 0.510                    | 50             |
| L10N-P    | 1/0 AWG    | 1/0 - 6 AWG          | Pink   | 1/2"            | 1.750                       | 0.390       | 0.520       | 4.630            | 0.740     | 0.620                         | 2.990                 | 1.200                    | 0.120                    | 0.510                    | 50             |
| L20N-14   | 2/0 AWG    | 2/0 - 4 AWG          | Black  | 1/4"            | 0.625                       | 0.440       | 0.560       | 2.990            | 0.810     | 0.280                         | 1.380                 | 1.380                    | 0.120                    | 0.252                    | 25             |
| L20N-141  | 2/0 AWG    | 2/0 - 4 AWG          | Black  | 1/4"            | 0.625                       | 0.440       | 0.560       | 2.990            | 0.810     | 0.280                         | 1.380                 | 1.380                    | 0.120                    | 0.252                    | 25             |
| L20N-141P | 2/0 AWG    | 2/0 - 4 AWG          | Black  | 1/4"            | 0.750                       | 0.440       | 0.560       | 2.990            | 0.810     | 0.280                         | 1.380                 | 1.380                    | 0.120                    | 0.252                    | 25             |
| L20N-142  | 2/0 AWG    | 2/0 - 4 AWG          | Black  | 1/4"            | 0.750                       | 0.440       | 0.560       | 2.990            | 0.810     | 0.280                         | 1.380                 | 1.380                    | 0.120                    | 0.250                    | 25             |
| L20N-14P  | 2/0 AWG    | 2/0 - 4 AWG          | Black  | 1/4"            | 0.625                       | 0.440       | 0.560       | 2.990            | 0.810     | 0.280                         | 1.380                 | 1.380                    | 0.120                    | 0.252                    | 25             |
| L20N-38   | 2/0 AWG    | 2/0 - 4 AWG          | Black  | 3/8"            | 1.000                       | 0.440       | 0.560       | 3.430            | 0.810     | 0.380                         | 1.810                 | 1.380                    | 0.120                    | 0.410                    | 25             |
| L20N-38P  | 2/0 AWG    | 2/0 - 4 AWG          | Black  | 3/8"            | 1.000                       | 0.440       | 0.560       | 3.430            | 0.810     | 0.380                         | 1.810                 | 1.380                    | 0.120                    | 0.410                    | 25             |
| L20N-383  | 2/0 AWG    | 2/0 - 4 AWG          | Black  | 3/8"            | 1.750                       | 0.440       | 0.560       | 4.610            | 0.810     | 0.380                         | 1.810                 | 1.380                    | 0.120                    | 0.410                    | 25             |
| L20N-383P | 2/0 AWG    | 2/0 - 4 AWG          | Black  | 3/8"            | 1.750                       | 0.440       | 0.560       | 4.610            | 0.810     | 0.380                         | 1.810                 | 1.380                    | 0.120                    | 0.410                    | 25             |
| L20N      | 2/0 AWG    | 2/0 - 4 AWG          | Black  | 1/2"            | 1.750                       | 0.440       | 0.560       | 4.610            | 0.810     | 0.620                         | 2.990                 | 1.380                    | 0.120                    | 0.510                    | 25             |
| L20NP     | 2/0 AWG    | 2/0 - 4 AWG          | Black  | 1/2"            | 1.750                       | 0.440       | 0.560       | 4.610            | 0.810     | 0.620                         | 2.990                 | 1.380                    | 0.120                    | 0.510                    | 25             |
| L30N-141  | 3/0 AWG    | 3/0 - 2 AWG          | Orange | 1/4"            | 0.625                       | 0.490       | 0.620       | 3.500            | 0.900     | 0.380                         | 1.810                 | 1.380                    | 0.130                    | 0.252                    | 25             |
| L30N-141P | 3/0 AWG    | 3/0 - 2 AWG          | Orange | 1/4"            | 0.625                       | 0.490       | 0.620       | 3.500            | 0.900     | 0.380                         | 1.810                 | 1.380                    | 0.130                    | 0.252                    | 25             |

CONNECTORS



# CONNECTORS

## Compression Connectors

### Long Barrel, Copper Lugs Two Hole LN Series Cont'd

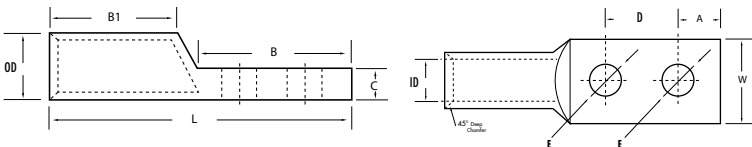


#### FEATURES

- Produced from high conductivity copper tubing.
- Allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, install to cable Manufacturer voltage stress relief instructions.
- **Part Numbers ending in "P" have a "peep" or sight inspection hole.**

#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- **Temperature Rating:** 90 °C.
- **Voltage:** 600V.
- 9CU.



**\*EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO.  | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR  | BOLT SIZE (IN.) | MTG. HOLE SPACING (D) (IN.) | BARREL I.D. | BARREL O.D. | LENGTH (L) (IN.) | WIDTH (W) | END OF CONN TO CTR. (A) (IN.) | TANG LENGTH (B) (IN.) | BARREL LENGTH (B1) (IN.) | TANG THICKNESS (C) (IN.) | MTG. HOLE DIA. (E) (IN.) | STD. CTN. QTY. |
|-----------|------------|----------------------|--------|-----------------|-----------------------------|-------------|-------------|------------------|-----------|-------------------------------|-----------------------|--------------------------|--------------------------|--------------------------|----------------|
| L30N-38   | 3/0 AWG    | 3/0 - 2 AWG          | Orange | 3/8"            | 1.000                       | 0.490       | 0.620       | 3.500            | 0.900     | 0.380                         | 1.810                 | 1.380                    | 0.130                    | 0.410                    | 25             |
| L30N-38P  | 3/0 AWG    | 3/0 - 2 AWG          | Orange | 3/8"            | 1.000                       | 0.490       | 0.620       | 3.500            | 0.900     | 0.380                         | 1.810                 | 1.380                    | 0.130                    | 0.410                    | 25             |
| L30N-56   | 3/0 AWG    | 3/0 - 2 AWG          | Orange | 5/16"           | 1.000                       | 0.490       | 0.620       | 4.650            | 0.900     | 0.620                         | 2.990                 | 1.380                    | 0.130                    | 0.312                    | 25             |
| L30N-56P  | 3/0 AWG    | 3/0 - 2 AWG          | Orange | 5/16"           | 1.000                       | 0.490       | 0.620       | 4.650            | 0.900     | 0.620                         | 2.990                 | 1.380                    | 0.130                    | 0.312                    | 25             |
| L30N      | 3/0 AWG    | 3/0 - 2 AWG          | Orange | 1/2"            | 1.750                       | 0.490       | 0.620       | 4.650            | 0.900     | 0.620                         | 2.990                 | 1.380                    | 0.130                    | 0.510                    | 25             |
| L30NP     | 3/0 AWG    | 3/0 - 2 AWG          | Orange | 1/2"            | 1.750                       | 0.490       | 0.620       | 4.650            | 0.900     | 0.620                         | 2.990                 | 1.380                    | 0.130                    | 0.510                    | 25             |
| L40N-141  | 4/0 AWG    | 4/0 - 1 AWG          | Purple | 1/4"            | 0.625                       | 0.550       | 0.690       | 2.991            | 1.002     | 0.287                         | 1.253                 | 1.378                    | 0.140                    | 0.252                    | 25             |
| L40N-141P | 4/0 AWG    | 4/0 - 1 AWG          | Purple | 1/4"            | 0.625                       | 0.550       | 0.690       | 2.991            | 1.002     | 0.287                         | 1.253                 | 1.378                    | 0.140                    | 0.252                    | 25             |
| L40N-142  | 4/0 AWG    | 4/0 - 1 AWG          | Purple | 1/4"            | 0.750                       | 0.550       | 0.690       | 3.109            | 0.994     | 0.287                         | 1.408                 | 1.365                    | 0.140                    | 0.252                    | 25             |
| L40N-142P | 4/0 AWG    | 4/0 - 1 AWG          | Purple | 1/4"            | 0.750                       | 0.550       | 0.690       | 3.109            | 0.994     | 0.287                         | 1.408                 | 1.365                    | 0.140                    | 0.252                    | 25             |
| L40N-38   | 4/0 AWG    | 4/0 - 1 AWG          | Purple | 3/8"            | 1.000                       | 0.550       | 0.690       | 3.540            | 2.002     | 0.370                         | 1.820                 | 1.407                    | 0.135                    | 0.410                    | 25             |
| L40N-38P  | 4/0 AWG    | 4/0 - 1 AWG          | Purple | 3/8"            | 1.000                       | 0.550       | 0.690       | 3.540            | 1.002     | 0.370                         | 1.820                 | 1.407                    | 0.135                    | 0.410                    | 25             |
| L40N-383  | 4/0 AWG    | 4/0 - 1 AWG          | Purple | 3/8"            | 1.750                       | 0.550       | 0.690       | 4.732            | 1.005     | 0.590                         | 2.952                 | 1.375                    | 0.142                    | 0.410                    | 25             |
| L40N-383P | 4/0 AWG    | 4/0 - 1 AWG          | Purple | 3/8"            | 1.750                       | 0.550       | 0.690       | 4.732            | 1.005     | 0.590                         | 2.952                 | 1.375                    | 0.142                    | 0.410                    | 25             |
| L40N      | 4/0 AWG    | 4/0 - 1 AWG          | Purple | 1/2"            | 1.750                       | 0.550       | 0.690       | 4.720            | 1.000     | 0.620                         | 2.990                 | 1.420                    | 0.130                    | 0.510                    | 25             |
| L40NP     | 4/0 AWG    | 4/0 - 1 AWG          | Purple | 1/2"            | 1.750                       | 0.550       | 0.690       | 4.720            | 1.000     | 0.620                         | 2.990                 | 1.420                    | 0.130                    | 0.510                    | 25             |
| L250N     | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow | 1/2"            | 1.750                       | 0.590       | 0.750       | 4.960            | 1.090     | 0.620                         | 2.990                 | 1.610                    | 0.150                    | 0.510                    | 25             |
| L250N-38  | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow | 3/8"            | 1.000                       | 0.590       | 0.750       | 3.780            | 1.090     | 0.380                         | 1.810                 | 1.610                    | 0.150                    | 0.410                    | 25             |
| L300N     | 300 MCM    | 300 MCM - 2/0 AWG    | White  | 1/2"            | 1.750                       | 0.660       | 0.810       | 5.310            | 1.190     | 0.620                         | 2.990                 | 1.970                    | 0.150                    | 0.510                    | 12             |
| L350N     | 350 MCM    | 350 MCM - 3/0 AWG    | Red    | 1/2"            | 1.750                       | 0.700       | 0.870       | 5.390            | 1.280     | 0.620                         | 2.990                 | 1.970                    | 0.170                    | 0.510                    | 12             |
| L350N-38  | 350 MCM    | 350 MCM - 3/0 AWG    | Red    | 3/8"            | 1.000                       | 0.700       | 0.870       | 4.210            | 1.280     | 0.380                         | 1.810                 | 1.970                    | 0.170                    | 0.410                    | 12             |
| L400N     | 400 MCM    | 400 MCM - 4/0 AWG    | Blue   | 1/2"            | 1.750                       | 0.760       | 0.950       | 5.470            | 1.390     | 0.620                         | 2.990                 | 1.970                    | 0.180                    | 0.510                    | 6              |
| L500N     | 500 MCM    | 500 - 250 MCM        | Brown  | 1/2"            | 1.750                       | 0.840       | 1.060       | 5.750            | 1.540     | 0.620                         | 2.990                 | 2.240                    | 0.220                    | 0.510                    | 6              |
| L500N-38  | 500 MCM    | 500 - 250 MCM        | Brown  | 3/8"            | 1.000                       | 0.840       | 1.060       | 4.570            | 1.540     | 0.380                         | 1.810                 | 2.240                    | 0.220                    | 0.410                    | 6              |
| L600N     | 600 MCM    | 600 - 250 MCM        | Green  | 1/2"            | 1.750                       | 0.930       | 1.190       | 5.790            | 1.720     | 0.620                         | 2.990                 | 2.240                    | 0.250                    | 0.510                    | 6              |
| L600N-38  | 600 MCM    | 600 - 250 MCM        | Green  | 3/8"            | 1.000                       | 0.930       | 1.190       | 4.610            | 1.720     | 0.380                         | 1.810                 | 2.240                    | 0.250                    | 0.410                    | 6              |
| L750N     | 750 MCM    | 750 - 500 MCM        | Black  | 1/2"            | 1.750                       | 1.040       | 1.310       | 6.300            | 1.900     | 0.620                         | 2.990                 | 2.640                    | 0.270                    | 0.510                    | 3              |
| L750N-38  | 750 MCM    | 750 - 500 MCM        | Black  | 3/8"            | 1.000                       | 1.040       | 1.310       | 5.120            | 1.900     | 0.380                         | 1.810                 | 2.640                    | 0.270                    | 0.410                    | 3              |
| L1000N    | 1000 MCM   | 1000 - 750 MCM       | White  | 1/2"            | 1.750                       | 1.150       | 1.500       | 7.125            | 2.160     | 0.630                         | 3.060                 | 3.160                    | 0.340                    | 0.510                    | 3              |

# CONNECTORS

## Compression Connectors

### Long Barrel Stacking Copper Lugs

#### SL-N Series

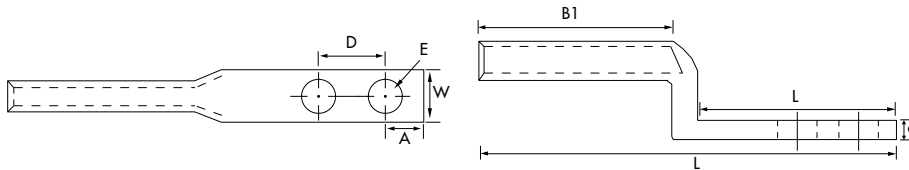


#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- **Temperature Rating:** 90 °C. A9CU.
- **Rating:** 600V.

#### FEATURES

- Designed for use with the L-N Series.
- Produced from high conductivity copper tubing for heavy duty applications.
- Tin-Plated to provide corrosion resistance.
- Marked with die index and color coded.
- For use with LN Series.
- Listed for 35KV maximum when properly installed.



**\*EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.  
 UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | BOLT SIZE (IN.) | MTG. HOLE SPACING (D) (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | END CONN. TO CTR. (A) (IN.) | TANG LENGTH (B) (IN.) | BARREL LENGTH (B1) (IN.) | STD. CTN. QTY. |
|----------|------------|----------------------|------------|-----------------|-----------------------------|------------------|-----------------|-----------------------------|-----------------------|--------------------------|----------------|
| SL40N    | 4/0 AWG    | 4/0 - 1 AWG          | Purple     | 0.500           | 1.750                       | 5.173            | 0.997           | 0.640                       | 2.863                 | 2.034                    | 25             |
| SL250N   | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow     | 0.500           | 1.750                       | 5.500            | 1.160           | 0.640                       | 2.870                 | 2.220                    | 25             |
| SL300N   | 300 MCM    | 300-2/0 AWG          | White      | 0.500           | 1.750                       | 5.750            | 1.159           | 0.640                       | 2.924                 | 2.477                    | 25             |
| SL350N   | 350 MCM    | 350 MCM - 3/0 AWG    | Red        | 0.500           | 1.750                       | 6.000            | 1.271           | 0.640                       | 2.876                 | 2.58                     | 25             |
| SL500N   | 500 MCM    | 500 - 250 MCM        | Brown      | 0.500           | 1.750                       | 6.000            | 1.547           | 0.640                       | 2.781                 | 2.862                    | 6              |
| SL600N   | 600 MCM    | 600 - 250 MCM        | Green      | 0.500           | 1.750                       | 6.750            | 1.697           | 0.640                       | 2.760                 | 3.460                    | 6              |
| SL750N   | 750 MCM    | 750 - 500 MCM        | Black      | 0.500           | 1.750                       | 6.750            | 1.884           | 0.640                       | 2.845                 | 3.480                    | 3              |

# CONNECTORS

## Compression Connectors

### Stacking Adapters for Compression Terminals SA Series

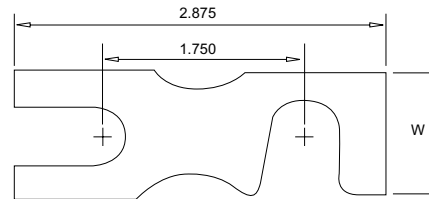


#### SPECIFICATIONS

- RATING: 600V.

#### FEATURES

- Tin-plated pure aluminum for good conductivity and corrosion resistance.
- Allows for stacking of standard two hole compression lugs and keeps inventories to a minimum.
- To stack 4-hole NECA drilled terminals, use two adapters assembled in parallel.



| CAT. NO.   | HEIGHT (IN.) | CONNECTOR SIZE RANGE | STD. CTN. QTY. |
|------------|--------------|----------------------|----------------|
| SA10-400   | 0.875        | 1/0-400 MCM          | 10             |
| SA500-1000 | 1.125        | 500-1000 MCM         | 6              |

# CONNECTORS

## Compression Connectors

### Short Barrel Copper Lugs One Hole with Peep Hole GL Series



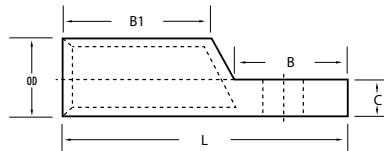
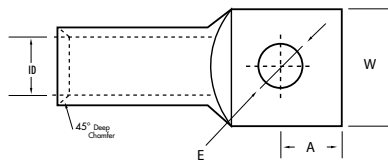
#### FEATURES

- Produced from high conductivity copper tubing.
- Peep hole allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly install applications greater than 2000V, installed to cable manufacturer voltage stress relief instructions.

#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- cULus Listed 155027.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- **Temperature Rating:** 90 °C.
- **Voltage:** 600V
- 9CU.

CONNECTORS



**\*EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | BOLT SIZE (IN.) | BARREL I.D. (IN.) | BARREL O.D. (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | END OF CONN TO CTR. (A) (IN.) | TANG LENGTH (B) (IN.) | BARREL LENGTH (B1) (IN.) | TANG THICK-NESS (C) (IN.) | MTG. HOLE DIA. (E) (IN.) | STD. CTN. QTY. |
|----------|------------|----------------------|------------|-----------------|-------------------|-------------------|------------------|-----------------|-------------------------------|-----------------------|--------------------------|---------------------------|--------------------------|----------------|
| GL810    | 8 AWG      | 8 AWG                | Red        | # 10            | 0.173             | 0.272             | 1.201            | 0.421           | 0.276                         | 0.591                 | 0.441                    | 0.079                     | 0.209                    | 100            |
| GL814    | 8 AWG      | 8 AWG                | Red        | 1/4             | 0.173             | 0.272             | 1.201            | 0.421           | 0.276                         | 0.591                 | 0.441                    | 0.079                     | 0.252                    | 100            |
| GL838    | 8 AWG      | 8 AWG                | Red        | 3/8             | 0.173             | 0.272             | 1.201            | 0.421           | 0.276                         | 0.591                 | 0.441                    | 0.079                     | 0.330                    | 100            |
| GL856    | 8 AWG      | 8 AWG                | Red        | 5/16            | 0.173             | 0.272             | 1.201            | 0.421           | 0.276                         | 0.591                 | 0.441                    | 0.079                     | 0.330                    | 100            |
| GL614    | 6 AWG      | 6 - 8 AWG            | Blue       | 1/4             | 0.205             | 0.295             | 1.496            | 0.421           | 0.295                         | 0.669                 | 0.709                    | 0.083                     | 0.252                    | 100            |
| GL656    | 6 AWG      | 6 - 8 AWG            | Blue       | 5/16            | 0.205             | 0.295             | 1.496            | 0.488           | 0.295                         | 0.669                 | 0.709                    | 0.067                     | 0.331                    | 100            |
| GL638    | 6 AWG      | 6 - 8 AWG            | Blue       | 3/8             | 0.205             | 0.295             | 1.496            | 0.488           | 0.295                         | 0.669                 | 0.709                    | 0.067                     | 0.410                    | 100            |
| GL414    | 4 AWG      | 4 - 6 AWG            | Gray       | 1/4             | 0.252             | 0.343             | 1.496            | 0.488           | 0.315                         | 0.669                 | 0.709                    | 0.079                     | 0.252                    | 100            |
| GL456    | 4 AWG      | 4 - 6 AWG            | Gray       | 5/16            | 0.252             | 0.343             | 1.496            | 0.488           | 0.315                         | 0.669                 | 0.709                    | 0.079                     | 0.331                    | 100            |
| GL438    | 4 AWG      | 4 - 6 AWG            | Gray       | 3/8             | 0.252             | 0.343             | 1.496            | 0.559           | 0.315                         | 0.669                 | 0.709                    | 0.079                     | 0.413                    | 100            |
| GL338    | 3 AWG      | 3 - 6 AWG            | White      | 3/8             | 0.277             | 0.372             | 1.984            | 0.594           | 0.375                         | 0.875                 | 0.885                    | 0.086                     | 0.399                    | 50             |
| GL214    | 2 AWG      | 2 - 6 AWG            | Brown      | 1/4             | 0.315             | 0.421             | 1.795            | 0.602           | 0.370                         | 0.811                 | 0.827                    | 0.102                     | 0.252                    | 50             |
| GL256    | 2 AWG      | 2 - 6 AWG            | Brown      | 5/16            | 0.315             | 0.421             | 1.795            | 0.602           | 0.370                         | 0.811                 | 0.827                    | 0.102                     | 0.331                    | 50             |
| GL238    | 2 AWG      | 2 - 6 AWG            | Brown      | 3/8             | 0.315             | 0.421             | 1.795            | 0.602           | 0.370                         | 0.811                 | 0.827                    | 0.102                     | 0.413                    | 50             |
| GL114    | 1 AWG      | 1 - 6 AWG            | Green      | 1/4             | 0.358             | 0.469             | 1.835            | 0.673           | 0.370                         | 0.811                 | 0.827                    | 0.106                     | 0.252                    | 50             |
| GL156    | 1 AWG      | 1 - 6 AWG            | Green      | 5/16            | 0.358             | 0.469             | 1.835            | 0.673           | 0.370                         | 0.811                 | 0.827                    | 0.106                     | 0.331                    | 50             |
| GL138    | 1 AWG      | 1 - 6 AWG            | Green      | 3/8             | 0.358             | 0.469             | 1.835            | 0.673           | 0.394                         | 0.811                 | 0.827                    | 0.106                     | 0.413                    | 50             |
| GL1056   | 1/0 AWG    | 1/0 - 6 AWG          | Pink       | 5/16            | 0.390             | 0.520             | 1.835            | 0.744           | 0.370                         | 0.811                 | 0.827                    | 0.126                     | 0.331                    | 50             |
| GL1038   | 1/0 AWG    | 1/0 - 6 AWG          | Pink       | 3/8             | 0.390             | 0.520             | 1.835            | 0.744           | 0.370                         | 0.811                 | 0.827                    | 0.126                     | 0.413                    | 50             |
| GL1048   | 1/0 AWG    | 1/0 - 6 AWG          | Pink       | 1/2             | 0.390             | 0.520             | 1.835            | 0.744           | 0.370                         | 0.811                 | 0.827                    | 0.126                     | 0.512                    | 50             |
| GL2056   | 2/0 AWG    | 2/0 - 4 AWG          | Black      | 5/16            | 0.441             | 0.563             | 2.244            | 0.815           | 0.472                         | 1.063                 | 0.945                    | 0.118                     | 0.331                    | 25             |

# CONNECTORS

## Compression Connectors

### Short Barrel Copper Lugs One Hole with Peep Hole GL Series Cont'd

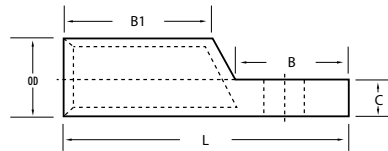
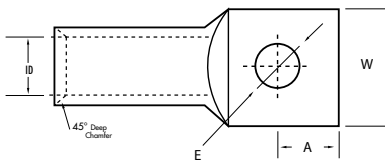


#### FEATURES

- Produced from high conductivity copper tubing.
- Peep hole allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly install applications greater than 2000V, installed to cable manufacturer voltage stress relief instructions.

#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- cULus Listed 155027.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- **Temperature Rating:** 90 °C.
- **Voltage:** 600V
- 9CU.



**\*EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.  
UL Listed with other tools:

**FOR TOOL/DIE CRIMPING INFORMATION,  
PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | BOLT SIZE (IN.) | BARREL I.D. (IN.) | BARREL O.D. (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | END OF CONN TO CTR. (A) (IN.) | TANG LENGTH (B) (IN.) | BARREL LENGTH (B1) (IN.) | TANG THICKNESS (C) (IN.) | MTG. HOLE DIA. (E) (IN.) | STD. CTN. QTY. |
|----------|------------|----------------------|------------|-----------------|-------------------|-------------------|------------------|-----------------|-------------------------------|-----------------------|--------------------------|--------------------------|--------------------------|----------------|
| GL2038   | 2/0 AWG    | 2/0 - 4 AWG          | Black      | 3/8             | 0.441             | 0.563             | 2.244            | 0.815           | 0.472                         | 1.063                 | 0.945                    | 0.118                    | 0.413                    | 25             |
| GL2048   | 2/0 AWG    | 2/0 - 4 AWG          | Black      | 1/2             | 0.441             | 0.563             | 2.244            | 0.815           | 0.472                         | 1.063                 | 0.945                    | 0.118                    | 0.512                    | 25             |
| GL3038   | 3/0 AWG    | 3/0 - 2 AWG          | Orange     | 3/8             | 0.492             | 0.622             | 2.362            | 0.902           | 0.472                         | 1.063                 | 0.984                    | 0.126                    | 0.413                    | 25             |
| GL3048   | 3/0 AWG    | 3/0 - 2 AWG          | Orange     | 1/2             | 0.492             | 0.622             | 2.362            | 0.902           | 0.472                         | 1.063                 | 0.984                    | 0.126                    | 0.512                    | 25             |
| GL4038   | 4/0 AWG    | 4/0 - 1 AWG          | Purple     | 3/8             | 0.547             | 0.689             | 2.362            | 1.000           | 0.472                         | 1.063                 | 0.984                    | 0.134                    | 0.413                    | 25             |
| GL4048   | 4/0 AWG    | 4/0 - 1 AWG          | Purple     | 1/2             | 0.547             | 0.689             | 2.362            | 1.000           | 0.472                         | 1.063                 | 0.984                    | 0.134                    | 0.512                    | 25             |
| GL25038  | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow     | 3/8             | 0.594             | 0.752             | 2.480            | 1.091           | 0.472                         | 1.063                 | 1.063                    | 0.150                    | 0.413                    | 25             |
| GL25048  | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow     | 1/2             | 0.594             | 0.752             | 2.480            | 1.091           | 0.472                         | 1.063                 | 1.063                    | 0.150                    | 0.512                    | 25             |
| GL30048  | 300 MCM    | 300 MCM - 2/0 AWG    | White      | 1/2             | 0.657             | 0.815             | 2.480            | 1.189           | 0.520                         | 1.063                 | 1.063                    | 0.150                    | 0.512                    | 12             |
| GL35038  | 350 MCM    | 350 MCM - 3/0 AWG    | Red        | 3/8             | 0.692             | 0.875             | 1.625            | 1.281           | 0.395                         | 0.875                 | 1.112                    | 0.173                    | 0.391                    | 12             |
| GL35048  | 350 MCM    | 350 MCM - 3/0 AWG    | Red        | 1/2             | 0.701             | 0.874             | 2.606            | 1.276           | 0.520                         | 1.063                 | 1.102                    | 0.165                    | 0.512                    | 12             |
| GL40048  | 400 MCM    | 400 MCM - 4/0 AWG    | Blue       | 1/2             | 0.764             | 0.949             | 3.079            | 1.386           | 0.520                         | 1.378                 | 1.181                    | 0.177                    | 0.512                    | 6              |
| GL50048  | 500 MCM    | 500 - 250 MCM        | Brown      | 1/2             | 0.835             | 1.063             | 3.276            | 1.539           | 0.520                         | 1.378                 | 1.378                    | 0.217                    | 0.512                    | 6              |
| GL50058  | 500 MCM    | 500 - 250 MCM        | Brown      | 5/8             | 0.835             | 1.063             | 3.276            | 1.539           | 0.520                         | 1.378                 | 1.378                    | 0.217                    | 0.669                    | 6              |
| GL60048  | 600 MCM    | 600 - 250 MCM        | Green      | 1/2             | 0.925             | 1.189             | 3.504            | 1.717           | 0.520                         | 1.457                 | 1.496                    | 0.252                    | 0.512                    | 6              |
| GL60058  | 600 MCM    | 600 - 250 MCM        | Green      | 5/8             | 0.925             | 1.189             | 3.504            | 1.717           | 0.689                         | 1.457                 | 1.496                    | 0.252                    | 0.669                    | 6              |
| GL75048  | 750 MCM    | 750 - 500 MCM        | Black      | 1/2             | 1.022             | 1.295             | 3.866            | 1.760           | 0.685                         | 1.550                 | 1.743                    | 0.277                    | 0.541                    | 3              |
| GL75058  | 750 MCM    | 750 - 500 MCM        | Black      | 5/8             | 1.031             | 1.311             | 4.370            | 1.902           | 0.689                         | 1.850                 | 1.850                    | 0.268                    | 0.669                    | 3              |

# CONNECTORS

## Compression Connectors

### Short Barrel Copper Lugs Two Hole with Peep Hole

#### GL-N Series

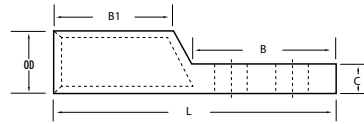
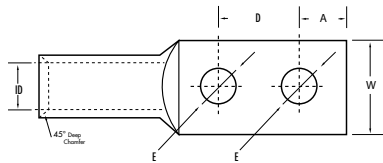


#### FEATURES

- Produced from high conductivity copper tubing.
- Peep hole allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly installed.
- For applications greater than 2000V, install to cable manufacturer voltage stress relief instructions.
- **Note:** Part numbers ending in "X" have no peep hole.

#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- cULus 155027.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- **Temperature Rating:** 90 °C.
- **Voltage:** 600V max.
- 9CU.



**\*EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO.  | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | BOLT SIZE (IN.) | MTG. HOLE SPACING (D) (IN.) | I.D. (IN.) | O.D. (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | END OF CONN TO CTR. (A) (IN.) | TANG LENGTH (B) (IN.) | BARREL LENGTH (B1) (IN.) | TANG THICKNESS (C) (IN.) | MTG. HOLE DIA. (E) (IN.) | STD. CTN. QTY. |
|-----------|------------|----------------------|------------|-----------------|-----------------------------|------------|------------|------------------|-----------------|-------------------------------|-----------------------|--------------------------|--------------------------|--------------------------|----------------|
| GL6N-141  | 6 AWG      | 6 - 8 AWG            | Blue       | 1/4             | 0.625                       | 0.205      | 0.295      | 2.087            | 0.421           | 0.280                         | 1.260                 | 0.709                    | 0.083                    | 0.252                    | 100            |
| GL6N-141X | 6 AWG      | 6 - 8 AWG            | Blue       | 1/4             | 0.625                       | 0.205      | 0.295      | 2.087            | 0.421           | 0.280                         | 1.260                 | 0.709                    | 0.083                    | 0.252                    | 100            |
| GL6N-143  | 6 AWG      | 6 - 8 AWG            | Blue       | 1/4             | 1.000                       | 0.205      | 0.295      | 2.638            | 0.421           | 0.280                         | 1.811                 | 0.709                    | 0.083                    | 0.252                    | 100            |
| GL6N-38   | 6 AWG      | 6 - 8 AWG            | Blue       | 3/8             | 1.000                       | 0.205      | 0.295      | 2.638            | 0.488           | 0.382                         | 1.811                 | 0.709                    | 0.087                    | 0.413                    | 100            |
| GL4N-141  | 4 AWG      | 4 - 6 AWG            | Gray       | 1/4             | 0.625                       | 0.252      | 0.343      | 2.087            | 0.488           | 0.280                         | 1.260                 | 0.709                    | 0.087                    | 0.252                    | 100            |
| GL4N-38   | 4 AWG      | 4 - 6 AWG            | Gray       | 3/8             | 1.000                       | 0.252      | 0.343      | 2.677            | 0.488           | 0.382                         | 1.811                 | 0.748                    | 0.087                    | 0.413                    | 100            |
| GL2N-141  | 2 AWG      | 2 - 6 AWG            | Brown      | 1/4             | 0.625                       | 0.315      | 0.421      | 2.283            | 0.602           | 0.280                         | 1.260                 | 0.827                    | 0.102                    | 0.252                    | 50             |
| GL2N-141X | 2 AWG      | 2 - 6 AWG            | Brown      | 1/4             | 0.625                       | 0.315      | 0.421      | 2.283            | 0.602           | 0.280                         | 1.260                 | 0.827                    | 0.102                    | 0.252                    | 50             |
| GL2N-142  | 2 AWG      | 2 - 6 AWG            | Brown      | 1/4             | 0.750                       | 0.315      | 0.421      | 2.362            | 0.602           | 0.280                         | 1.378                 | 0.827                    | 0.102                    | 0.252                    | 50             |
| GL2N-143  | 2 AWG      | 2 - 6 AWG            | Brown      | 1/4             | 1.000                       | 0.315      | 0.421      | 2.795            | 0.602           | 0.280                         | 1.811                 | 0.827                    | 0.102                    | 0.252                    | 50             |
| GL2N-38   | 2 AWG      | 2 - 6 AWG            | Brown      | 3/8             | 1.000                       | 0.315      | 0.421      | 2.835            | 0.602           | 0.280                         | 1.811                 | 0.827                    | 0.102                    | 0.413                    | 50             |
| GL2N-38X  | 2 AWG      | 2 - 6 AWG            | Brown      | 3/8             | 1.000                       | 0.315      | 0.421      | 2.835            | 0.602           | 0.280                         | 1.811                 | 0.827                    | 0.102                    | 0.413                    | 50             |
| GL1N-38   | 1 AWG      | 1 - 6 AWG            | Green      | 3/8             | 1.000                       | 0.350      | 0.463      | 3.024            | 0.672           | 0.345                         | 1.842                 | 0.955                    | 0.106                    | 0.404                    | 50             |
| GL10N-38  | 1/0 AWG    | 1/0 - 6 AWG          | Pink       | 3/8             | 1.000                       | 0.390      | 0.520      | 2.835            | 0.744           | 0.382                         | 1.811                 | 0.827                    | 0.126                    | 0.413                    | 50             |
| GL10N-38X | 1/0 AWG    | 1/0 - 6 AWG          | Pink       | 3/8             | 1.000                       | 0.390      | 0.520      | 2.835            | 0.744           | 0.382                         | 1.811                 | 0.827                    | 0.126                    | 0.413                    | 50             |



# CONNECTORS

## Compression Connectors

### Short Barrel Copper Lugs Two Hole with Peep Hole GL-N Series Cont'd



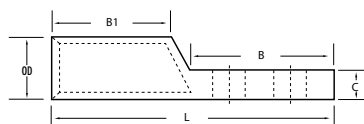
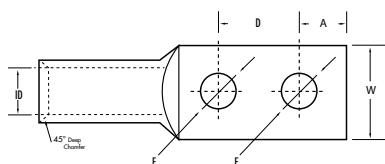
#### FEATURES

- Produced from high conductivity copper tubing.
- Peep hole allows easy inspection of the termination to assure complete cable insertion.
- Tin-plated to provide corrosion and low contact resistance.
- Marked with die index and color coded.
- Listed for 35KV maximum when properly install applications greater than 2000V, install to cable manufacturer voltage stress relief instructions.

- **Part numbers ending in "X" have no peep hole.**

#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- cULus 155027.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- **Temperature Rating:** 90 °C.
- **Voltage:** 600V max.
- 9CU.



**\*EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL /DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO.  | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | BOLT SIZE (IN.) | MTG. HOLE SPACING (D) (IN.) | I.D. (IN.) | O.D. (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | END OF CONN TO CTR. (A) (IN.) | TANG LENGTH (B) (IN.) | BARREL LENGTH (B1) (IN.) | TANG THICKNESS (C) (IN.) | MTG. HOLE DIA. (E) (IN.) | STD. CTN. QTY. |
|-----------|------------|----------------------|------------|-----------------|-----------------------------|------------|------------|------------------|-----------------|-------------------------------|-----------------------|--------------------------|--------------------------|--------------------------|----------------|
| GL20N     | 2/0 AWG    | 2/0 - 4 AWG          | Black      | 1/2             | 1.750                       | 0.441      | 0.563      | 4.173            | 0.815           | 0.618                         | 2.992                 | 0.945                    | 0.118                    | 0.512                    | 25             |
| GL20N-38  | 2/0 AWG    | 2/0 - 4 AWG          | Black      | 3/8             | 1.000                       | 0.441      | 0.563      | 2.992            | 0.815           | 0.382                         | 1.811                 | 0.945                    | 0.118                    | 0.413                    | 25             |
| GL30N     | 3/0 AWG    | 3/0 - 2 AWG          | Orange     | 1/2             | 1.750                       | 0.492      | 0.622      | 4.291            | 0.902           | 0.618                         | 2.992                 | 0.984                    | 0.126                    | 0.512                    | 25             |
| GL30N-38  | 3/0 AWG    | 3/0 - 2 AWG          | Orange     | 3/8             | 1.000                       | 0.492      | 0.622      | 3.110            | 0.902           | 0.382                         | 1.811                 | 0.984                    | 0.126                    | 0.413                    | 25             |
| GL40N     | 4/0 AWG    | 4/0 - 1 AWG          | Purple     | 1/2             | 1.750                       | 0.547      | 0.689      | 4.291            | 1.000           | 0.618                         | 2.992                 | 0.984                    | 0.134                    | 0.512                    | 25             |
| GL40N-38  | 4/0 AWG    | 4/0 - 1 AWG          | Purple     | 3/8             | 1.000                       | 0.547      | 0.689      | 3.110            | 1.000           | 0.382                         | 1.811                 | 0.984                    | 0.134                    | 0.413                    | 25             |
| GL250N    | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow     | 1/2             | 1.750                       | 0.594      | 0.752      | 4.409            | 1.091           | 0.618                         | 2.992                 | 1.063                    | 0.150                    | 0.512                    | 25             |
| GL250N-38 | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow     | 3/8             | 1.000                       | 0.594      | 0.752      | 3.228            | 1.091           | 0.382                         | 1.811                 | 1.063                    | 0.150                    | 0.413                    | 25             |
| GL350N    | 350 MCM    | 350 MCM - 3/0 AWG    | Red        | 1/2             | 1.750                       | 0.701      | 0.874      | 4.528            | 1.276           | 0.618                         | 2.992                 | 1.102                    | 0.165                    | 0.512                    | 12             |
| GL350N-38 | 350 MCM    | 350 MCM - 3/0 AWG    | Red        | 3/8             | 1.000                       | 0.701      | 0.874      | 3.346            | 1.276           | 0.382                         | 1.811                 | 1.102                    | 0.165                    | 0.413                    | 12             |
| GL400N    | 400 MCM    | 400 MCM - 4/0 AWG    | Blue       | 1/2             | 1.750                       | 0.764      | 0.949      | 4.685            | 1.386           | 0.618                         | 2.992                 | 1.181                    | 0.177                    | 0.512                    | 6              |
| GL500N    | 500 MCM    | 500 - 250 MCM        | Brown      | 1/2             | 1.750                       | 0.839      | 1.063      | 4.882            | 1.539           | 0.618                         | 2.992                 | 1.378                    | 0.217                    | 0.512                    | 6              |
| GL500N-38 | 500 MCM    | 500 - 250 MCM        | Brown      | 3/8             | 1.000                       | 0.839      | 1.063      | 3.701            | 1.539           | 0.382                         | 1.811                 | 1.378                    | 0.217                    | 0.413                    | 6              |
| GL600N    | 600 MCM    | 600 - 250 MCM        | Green      | 1/2             | 1.750                       | 0.925      | 1.189      | 5.039            | 1.717           | 0.618                         | 2.992                 | 1.496                    | 0.252                    | 0.512                    | 6              |
| GL750N    | 750 MCM    | 750 - 500 MCM        | Black      | 1/2             | 1.750                       | 1.043      | 1.311      | 5.512            | 1.902           | 0.618                         | 2.992                 | 1.850                    | 0.268                    | 0.512                    | 3              |

# CONNECTORS

## Compression Connectors

### Copper Splice Short Barrel

#### SC Series



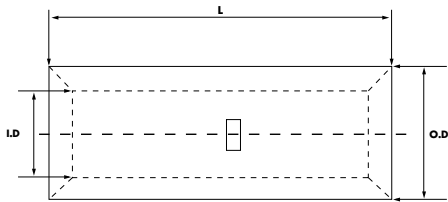
#### FEATURES

- Produced from high conductivity copper tubing.
- Serrations indicate proper crimp locations.
- Tin-plated to provide corrosion resistance.
- Marked with die index and color coded.
- Suitable for use at voltages up to 35KV provided connector is properly installed to cable manufacturer voltage stress relief instructions.
- 5KV is the maximum voltage in all bare splices.

#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- cULus Listed 155027.
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual.
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY
- **Temperature Rating:** 90 °C.
- **Voltage:** 600V max.
- 9CU.

CONNECTORS



**\*EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | I.D. (IN.) | O.D. (IN.) | LENGTH (L) (IN.) | STD. CTN. QTY. |
|----------|------------|----------------------|------------|------------|------------|------------------|----------------|
| SC-8     | 8 AWG      | 8 AWG                | Red        | 0.173      | 0.272      | 0.902            | 100            |
| SC-6     | 6 AWG      | 6 - 8 AWG            | Blue       | 0.205      | 0.295      | 1.000            | 100            |
| SC-4     | 4 AWG      | 4 - 6 AWG            | Gray       | 0.252      | 0.343      | 1.000            | 100            |
| SC-3     | 3 AWG      | 3 - 6 AWG            | White      | 0.282      | 0.378      | 1.883            | 50             |
| SC-2     | 2 AWG      | 2 - 6 AWG            | Brown      | 0.315      | 0.421      | 1.252            | 50             |
| SC-1     | 1 AWG      | 1 - 6 AWG            | Green      | 0.358      | 0.469      | 1.799            | 50             |
| SC-1/0   | 1/0 AWG    | 1/0 - 6 AWG          | Pink       | 0.390      | 0.520      | 1.598            | 50             |
| SC-2/0   | 2/0 AWG    | 2/0 - 4 AWG          | Black      | 0.441      | 0.563      | 1.752            | 25             |
| SC-3/0   | 3/0 AWG    | 3/0 - 2 AWG          | Orange     | 0.492      | 0.622      | 1.752            | 25             |
| SC-4/0   | 4/0 AWG    | 4/0 - 1 AWG          | Purple     | 0.547      | 0.689      | 1.902            | 25             |
| SC-250   | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow     | 0.594      | 0.752      | 2.000            | 25             |
| SC-300   | 300 MCM    | 300 MCM - 2/0 AWG    | White      | 0.657      | 0.815      | 2.098            | 12             |
| SC-350   | 350 MCM    | 350 MCM - 3/0 AWG    | Red        | 0.701      | 0.874      | 2.098            | 12             |
| SC-400   | 400 MCM    | 400 MCM - 4/0 AWG    | Blue       | 0.764      | 0.949      | 2.299            | 6              |
| SC-500   | 500 MCM    | 500 - 250 MCM        | Brown      | 0.835      | 1.063      | 2.500            | 6              |
| SC-600   | 600 MCM    | 600 - 250 MCM        | Green      | 0.925      | 1.189      | 2.500            | 6              |
| SC-750   | 750 MCM    | 750-500 MCM          | Black      | 1.031      | 1.311      | 3.201            | 3              |

# CONNECTORS

## Compression Connectors

### Copper Splice Long Barrel

#### C Series

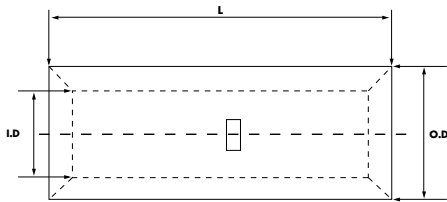


#### FEATURES

- Produced from high conductivity copper tubing.
- Serrations indicate proper crimp locations.
- Tin-plated to provide corrosion resistance.
- Marked with die index and color coded.
- Suitable for use at voltages up to 35KV provided connector is properly installed to cable manufacturer voltage stress relief instructions.
- 5KV is the maximum voltage in all bare splices.

#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Grounding & Bonding (Sizes 8 AWG - 3/0 AWG).
- Max ampacity is based on NEC 310.15, insulation type, and conductor material. Please consult your current NEC manual..
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V max.
- 9CU.



**\*EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.  
UL Listed with other tools:

**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE INDEX | I.D. (IN.) | O.D. (IN.) | LENGTH (L) (IN.) | STD. CTN. QTY. |
|----------|------------|----------------------|------------------|------------|------------|------------------|----------------|
| C-8      | 8 AWG      | 8 AWG                | Red              | 0.173      | 0.272      | 1.752            | 100            |
| C-6      | 6 AWG      | 6 - 8 AWG            | Blue             | 0.205      | 0.295      | 1.752            | 100            |
| C-4      | 4 AWG      | 4 - 6 AWG            | Gray             | 0.252      | 0.343      | 1.752            | 100            |
| C-3      | 3 AWG      | 3 - 6 AWG            | White            | 0.282      | 0.378      | 2.381            | 50             |
| C-2      | 2 AWG      | 2 - 6 AWG            | Brown            | 0.315      | 0.421      | 1.902            | 50             |
| C-1      | 1 AWG      | 1 - 6 AWG            | Green            | 0.358      | 0.469      | 2.201            | 50             |
| C-1/0    | 1/0 AWG    | 1/0 - 6 AWG          | Pink             | 0.390      | 0.520      | 2.201            | 50             |
| C-2/0    | 2/0 AWG    | 2/0 - 4 AWG          | Black            | 0.441      | 0.563      | 2.252            | 25             |
| C-3/0    | 3/0 AWG    | 3/0 - 2 AWG          | Orange           | 0.492      | 0.622      | 2.252            | 25             |
| C-4/0    | 4/0 AWG    | 4/0 - 1 AWG          | Purple           | 0.547      | 0.689      | 2.752            | 25             |
| C-250    | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow           | 0.594      | 0.752      | 3.252            | 25             |
| C-300    | 300 MCM    | 300 MCM - 2/0 AWG    | White            | 0.657      | 0.815      | 3.504            | 12             |
| C-350    | 350 MCM    | 350 MCM - 3/0 AWG    | Red              | 0.701      | 0.874      | 3.752            | 12             |
| C-400    | 400 MCM    | 400 MCM - 4/0 AWG    | Blue             | 0.764      | 0.949      | 3.752            | 6              |
| C-500    | 500 MCM    | 500 - 250 MCM        | Brown            | 0.835      | 1.063      | 4.252            | 6              |
| C-600    | 600 MCM    | 600 - 250 MCM        | Green            | 0.925      | 1.189      | 4.500            | 6              |
| C-750    | 750 MCM    | 750-500 MCM          | Black            | 1.031      | 1.311      | 4.752            | 3              |
| C-1000   | 1000 MCM   | 1000-750 MCM         | White            | 1.189      | 1.527      | 6.122            | 3              |

# CONNECTORS

## Compression Connectors

For Flexible Copper Cable – One Hole Short Barrel (Peep Hole)

GL-B Series

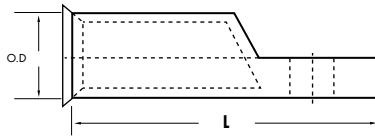
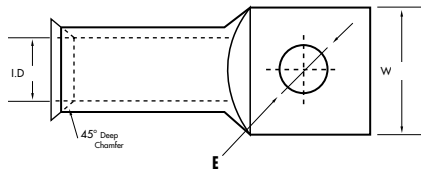


### SPECIFICATIONS

- UL486A Listed Wire Connector.
- Temperature Rating: 90 °C.
- Voltage: 600V
- For copper cables only.

### FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.



**\*EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | COMM | CABLE SIZE   |                 |                       | BOLT SIZE (E) (IN.) | I.D. (IN.) | O.D. (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) |
|----------|------------|----------------------|------------|------|--------------|-----------------|-----------------------|---------------------|------------|------------|------------------|-----------------|
|          |            |                      |            |      | ASTM CLASS H | WELDING CLASS M | DLO DIESEL LOCOMOTIVE |                     |            |            |                  |                 |
| GL214B   | 2 AWG      | 2 - 6 AWG            | Brown      | 2    | 4            | 4               | (125)                 | 1/4                 | 0.315      | 0.421      | 1.800            | 0.600           |
| GL256B   | 2 AWG      | 2 - 6 AWG            | Brown      | 2    | 4            | 4               | (125)                 | 5/16                | 0.315      | 0.421      | 1.800            | 0.600           |
| GL156B   | 1 AWG      | 1 - 6 AWG            | Green      | 1    | 2            | 2               | (150)                 | 5/16                | 0.358      | 0.469      | 1.830            | 0.670           |
| GL1056B  | 1/0 AWG    | 1/0 - 6 AWG          | Pink       | 1/0  | 1            | 1               | (225)                 | 5/16                | 0.390      | 0.520      | 1.830            | 0.740           |
| GL2038B  | 2/0 AWG    | 2/0 - 4 AWG          | Black      | 2/0  | 1/0          | 1/0             | 1/0 (275)             | 3/8                 | 0.441      | 0.563      | 2.240            | 0.810           |
| GL3038B  | 3/0 AWG    | 3/0 - 2 AWG          | Orange     | 3/0  | 2/0          | –               | 2/0 (325)             | 3/8                 | 0.492      | 0.622      | 2.360            | 0.900           |
| GL3048B  | 3/0 AWG    | 3/0 - 2 AWG          | Orange     | 3/0  | 2/0          | –               | 2/0 (325)             | 1/2                 | 0.492      | 0.622      | 2.360            | 0.900           |
| GL4048B  | 4/0 AWG    | 4/0 - 1 AWG          | Purple     | 4/0  | 3/0          | 2/0             | 3/0 (450)             | 1/2                 | 0.547      | 0.689      | 2.360            | 1.000           |
| GL25038B | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow     | 250  | –            | 3/0             | 4/0 (550)             | 3/8                 | 0.594      | 0.752      | 2.480            | 1.090           |
| GL25048B | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow     | 250  | –            | 3/0             | 4/0 (550)             | 1/2                 | 0.594      | 0.752      | 2.480            | 1.090           |
| GL30048B | 300 MCM    | 300 MCM - 2/0 AWG    | White      | 300  | 4/0          | 4/0             | 262.6                 | 1/2                 | 0.657      | 0.815      | 2.490            | 1.190           |
| GL35058B | 350 MCM    | 350 MCM - 3/0 AWG    | Red        | 350  | 250          | 250             | 313.1                 | 5/8                 | 0.692      | 0.875      | 2.910            | 1.280           |
| GL50058B | 400 MCM    | 400 MCM - 4/0 AWG    | Brown      | 500  | 350          | 300             | 373.3                 | 5/8                 | 0.835      | 1.063      | 3.280            | 1.540           |
| GL60058B | 500 MCM    | 500 - 250 MCM        | Green      | 600  | 400          | 350             | 444.4                 | 5/8                 | 0.925      | 1.189      | 3.500            | 1.720           |
| GL70058B | 600 MCM    | 600 - 250 MCM        | Pink       | 700  | 500          | 400             | 535.3                 | 5/8                 | 1.031      | 1.311      | –                | –               |
| GL75058B | 750 MCM    | 750-500 MCM          | Black      | 750  | 600          | 500             | –                     | 5/8                 | 1.031      | 1.311      | 4.370            | 1.950           |
| GL10058B | 1000 MCM   | 1000-500 MCM         | White      | 1000 | 800          | 700             | 777.7                 | 5/8                 | 1.158      | 1.491      | 4.769            | 2.170           |

# CONNECTORS

## Compression Connectors

For Flexible Copper Cable – One Hole Long Barrel  
L-B Series

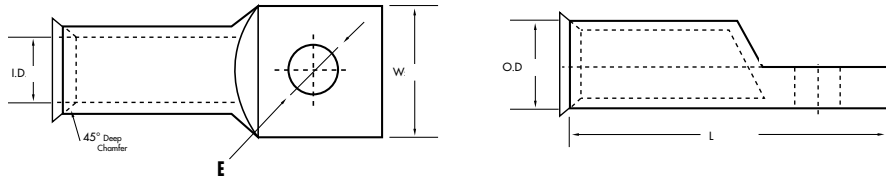


### FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.

### SPECIFICATIONS

- UL486A Listed Wire Connector.
- cULus Listed 155027.
- Temperature Rating: 90 °C.
- Voltage: 600V
- For copper cables only.



**\*EXPANDED WIRE RANGE** when installed with NSI N121D dieless compression tool.  
UL Listed with other tools:

**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | COMM | CABLE SIZE   |                 |                       | LENGTH (L) (IN.) | BOLT SIZE (E) (IN.) | WIDTH (W) (IN.) | I.D. (IN.) | O.D. (IN.) |
|----------|------------|----------------------|------------|------|--------------|-----------------|-----------------------|------------------|---------------------|-----------------|------------|------------|
|          |            |                      |            |      | ASTM CLASS H | WELDING CLASS M | DLO DIESEL LOCOMOTIVE |                  |                     |                 |            |            |
| L638B    | 6 AWG      | 6-8 AWG              | Blue       | 6    | 8            | 8               | (61)                  | 1.910            | 3/8                 | 0.590           | 0.205      | 0.295      |
| L438B    | 4 AWG      | 4 - 6 AWG            | Grey       | 4    | 6            | 6               | (105)                 | 1.910            | 3/8                 | 0.590           | 0.252      | 0.343      |
| L256B    | 2 AWG      | 2 - 6 AWG            | Brown      | 2    | 4            | 4               | (125)                 | 2.070            | 5/16                | 0.600           | 0.315      | 0.421      |
| L238B    | 2 AWG      | 2 - 6 AWG            | Brown      | 2    | 4            | 4               | (125)                 | 2.070            | 3/8                 | 0.600           | 0.315      | 0.421      |
| L156B    | 1 AWG      | 1 - 6 AWG            | Green      | 1    | 2            | 2               | (150)                 | 2.110            | 5/16                | 0.670           | 0.358      | 0.469      |
| L1056B   | 1/0 AWG    | 1/0 - 6 AWG          | Pink       | 1/0  | 1            | 1               | (225)                 | 2.210            | 5/16                | 0.740           | 0.390      | 0.520      |
| L2038B   | 2/0 AWG    | 2/0 - 4 AWG          | Black      | 2/0  | 1/0          | 1/0             | 1/0 (275)             | 2.680            | 3/8                 | 0.810           | 0.441      | 0.563      |
| L3038B   | 3/0 AWG    | 3/0 - 2 AWG          | Orange     | 3/0  | 2/0          | –               | 2/0 (325)             | 2.800            | 3/8                 | 0.900           | 0.492      | 0.622      |
| L3048B   | 3/0 AWG    | 3/0 - 2 AWG          | Orange     | 3/0  | 2/0          | –               | 2/0 (325)             | 2.800            | 1/2                 | 1.000           | 0.492      | 0.622      |
| L4048B   | 4/0 AWG    | 4/0 - 1 AWG          | Purple     | 4/0  | 3/0          | 2/0             | 3/0 (450)             | 2.800            | 1/2                 | 1.000           | 0.547      | 0.689      |
| L25038B  | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow     | 250  | –            | 3/0             | 4/0 (550)             | 3.030            | 3/8                 | 1.090           | 0.594      | 0.752      |
| L25048B  | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow     | 250  | –            | 3/0             | 4/0 (550)             | 3.030            | 1/2                 | 1.090           | 0.594      | 1.752      |
| L30048B  | 300 MCM    | 300 MCM - 2/0 AWG    | White      | 300  | 4/0          | 4/0             | 262.6                 | 3.390            | 1/2                 | 1.190           | 0.651      | 1.815      |
| L35058B  | 350 MCM    | 350 MCM - 3/0 AWG    | Red        | 350  | 250          | 250             | 313.1                 | 3.460            | 5/8                 | 1.280           | 0.701      | 0.874      |
| L50058B  | 500 MCM    | 500 - 250 MCM        | Brown      | 500  | 350          | 300             | 373.3                 | 4.130            | 5/8                 | 1.540           | 0.835      | 1.063      |
| L60058B  | 600 MCM    | 600 - 250 MCM        | Green      | 600  | 400          | 350             | 444.4                 | 4.256            | 5/8                 | 1.720           | 0.925      | 1.189      |
| L70048B  | 700 MCM    | 700-500 MCM          | –          | 700  | 500          | 400             | 535.3                 | 4.922            | 1/2                 | 1.690           | 0.975      | 1.241      |
| L70058B  | 700 MCM    | 700-500 MCM          | –          | 700  | 500          | 400             | 535.3                 | 5.094            | 5/8                 | 1.702           | 0.962      | 1.241      |
| L75058B  | 750 MCM    | 750-500 MCM          | Black      | 750  | 600          | 500             | –                     | 5.160            | 5/8                 | 1.900           | 1.031      | 1.311      |

# CONNECTORS

## Compression Connectors

### For Flexible Copper Cable – Two Hole Long Barrel

#### L-NB Series

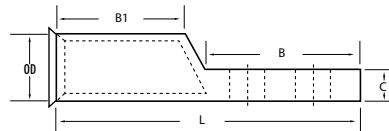
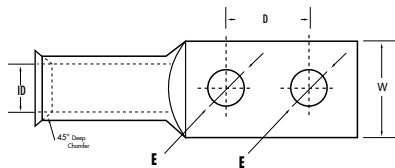


#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- Temperature Rating: 90 °C.
- Voltage: 600V
- 9CU.
- For copper cables only.

#### FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.
- NEMA spaced mounting holes (1 3/4"). (E Dimension)



**\*EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | LENGTH (L) (IN.) | BOLT SIZE (E) (IN.) | MOUNTING HOLE SPACING (D) (IN.) | WIDTH (W) (IN.) | I.D. (IN.) | O.D. (IN.) | COMM | CABLE SIZE   |                 |                       | STD. CTN. QTY. |
|----------|------------|----------------------|------------|------------------|---------------------|---------------------------------|-----------------|------------|------------|------|--------------|-----------------|-----------------------|----------------|
|          |            |                      |            |                  |                     |                                 |                 |            |            |      | ASTM CLASS H | CLASS M WELDING | DLO DIESEL LOCOMOTIVE |                |
| L30NB    | 3/0        | 3/0 - 2 AWG          | Orange     | 4.650            | 1/2                 | 1.750                           | 0.900           | 0.490      | 0.620      | 3/0  | 2/0          | –               | 2/0 (325)             | 12             |
| L40NB    | 4/0        | 4/0 - 1              | Purple     | 4.720            | 1/2                 | 1.750                           | 1.000           | 0.550      | 0.690      | 4/0  | 3/0          | 2/0             | 3/0 (450)             | 12             |
| L250NB   | 250        | 250 - 1/0            | Yellow     | 4.960            | 1/2                 | 1.750                           | 1.090           | 0.590      | 0.750      | 250  | –            | 3/0             | 4/0 (550)             | 12             |
| L300NB   | 300        | 300 - 2/0            | White      | 5.310            | 1/2                 | 1.750                           | 1.190           | 0.660      | 0.810      | 300  | 4/0          | 4/0             | 262.6                 | 6              |
| L350NB   | 350        | 350 - 3/0            | Red        | 5.390            | 1/2                 | 1.750                           | 1.280           | 0.700      | 0.870      | 350  | 250          | 250             | 313.1                 | 6              |
| L500NB   | 500        | 500 - 250            | Brown      | 5.750            | 1/2                 | 1.750                           | 1.540           | 0.840      | 1.060      | 500  | 350          | 300             | 373.3                 | 3              |
| L600NB   | 600        | 600 - 250            | Green      | 5.790            | 1/2                 | 1.750                           | 1.720           | 0.930      | 1.190      | 600  | 400          | 350             | 444.4                 | 3              |
| L700NB   | 700        | 700 - 500            | Pink       | 6.250            | 1/2                 | 1.750                           | 1.844           | 0.980      | 1.230      | 700  | 500          | 400             | 535.3                 | 3              |
| L750NB   | 750        | 750 - 500            | Black      | 6.300            | 1/2                 | 1.750                           | 1.900           | 1.030      | 1.310      | 750  | 600          | 500             | –                     | 3              |
| L100NB   | 1000       | 1000 - 750           | White      | 7.125            | 1/2                 | 1.750                           | 2.160           | 1.150      | 1.500      | 1000 | 800          | 700             | 777.7                 | 3              |

# CONNECTORS

## Compression Connectors

For Flexible Copper Cable – Two Hole Short Barrel (Peep Hole)  
GL-NB Series

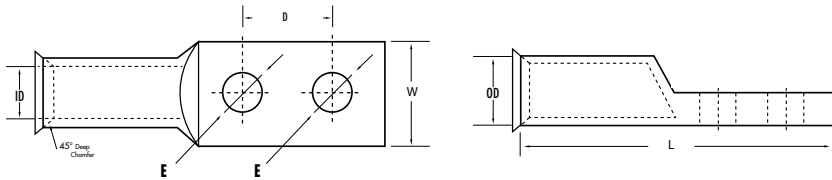


### SPECIFICATIONS

- UL486A Listed Wire Connector.
- Temperature Rating: 90 °C.
- Voltage: 600V
- For copper cables only.

### FEATURES

- Connector end has a gentle, continuous flare to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- The flared end also reduces pressure on the cable strands after installation and protects them from chafing and breakage as a result of cable movement.
- Tin-plated for corrosion resistance.
- NEMA spaced mounting holes (1 $\frac{3}{4}$ " (E Dimension))



**\*EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.  
UL Listed with other tools:

**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | BOLT SIZE (E) (IN.) | MOUNTING HOLE SPACING (D) (IN.) | I.D. (IN.) | O.D. (IN.) | COMM | CABLE SIZE   |                 |                   | LENGTH (L) | WIDTH (W) | STD. CTN. QTY. |
|----------|------------|----------------------|------------|---------------------|---------------------------------|------------|------------|------|--------------|-----------------|-------------------|------------|-----------|----------------|
|          |            |                      |            |                     |                                 |            |            |      | ASTM CLASS H | CLASS M WELDING | DIESEL LOCOMOTIVE |            |           |                |
| GL30NB   | 3/0        | 3/0 - 2              | Orange     | 1/2                 | 1.750                           | 0.492      | 0.622      | 3/0  | 2/0          | –               | 2/0 (325)         | 4.291      | 0.902     | 12             |
| GL250NB  | 250        | 250 - 1/0            | Yellow     | 1/2                 | 1.750                           | 0.590      | 0.752      | 250  | –            | 3/0             | 4/0 (550)         | 4.409      | 1.090     | 12             |
| GL300NB  | 300        | 300 - 2/0            | White      | 1/2                 | 1.750                           | 0.660      | 0.810      | 300  | 4/0          | 4/0             | 262.6             | 4.528      | 1.276     | 6              |
| GL350NB  | 350        | 350 - 3/0            | Red        | 1/2                 | 1.750                           | 0.700      | 0.870      | 350  | 250          | 250             | 313.1             | 4.528      | 1.276     | 6              |
| GL500NB  | 500        | 500 - 250            | Brown      | 1/2                 | 1.750                           | 0.840      | 1.060      | 500  | 350          | 300             | 373.3             | 4.882      | 1.540     | 3              |
| GL600NB  | 600        | 600 - 250            | Green      | 1/2                 | 1.750                           | 0.925      | 1.190      | 600  | 400          | 350             | 444.4             | 5.039      | 1.717     | 3              |
| GL700NB  | 700        | 700-500              | Pink       | 1/2                 | 1.750                           | 0.984      | 1.240      | 700  | –            | –               | –                 | 5.669      | 1.722     | 3              |
| GL750NB  | 750        | 750 - 500            | Black      | 1/2                 | 1.750                           | 1.040      | 1.310      | 750  | 600          | 500             | –                 | 5.512      | 1.900     | 3              |
| GL100NB  | 1000       | –                    | White      | 1/2                 | 1.750                           | 1.173      | 1.492      | 1000 | 800          | 700             | 777.7             | 5.870      | 2.158     | 3              |



# CONNECTORS

## Compression Connectors

For Flexible Copper Cable – Copper Short Barrel  
SC-B Series



### SPECIFICATIONS

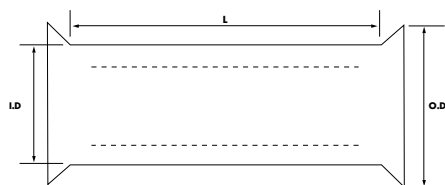
- UL486A Listed Wire Connector.
- cULus Listed 155027.
- Temperature Rating: 90 °C.
- Voltage: 600V
- For copper cables only.

### FEATURES

- Splice has flared openings at both ends to ensure ease of cable insertion of flexible and extra-flexible cables such as locomotive, welding, mining cable and more.
- Positive center stop.
- Tin-plated for corrosion resistance.



CONNECTORS



**\*EXPANDED WIRE RANGE** when installed with NSI N12ID dieless compression tool.  
UL Listed with other tools:  
**FOR TOOL/DIE CRIMPING INFORMATION, PLEASE SEE TABLE ON PAGE 87**

| CAT. NO. | WIRE RANGE | EXPANDED WIRE RANGE* | COLOR CODE | LENGTH (L) | BARREL I.D. | BARREL O.D. | COMM | CABLE SIZE   |                 | DLO DIESEL LOCOMOTIVE | STD. CTN. QTY. |
|----------|------------|----------------------|------------|------------|-------------|-------------|------|--------------|-----------------|-----------------------|----------------|
|          |            |                      |            |            |             |             |      | ASTM CLASS H | CLASS M WELDING |                       |                |
| SC-1B    | 1 AWG      | 1 AWG                | Green      | 1.800      | 0.358       | 0.468       | 1    | –            | –               | –                     | 25             |
| SC-1/OB  | 1/0 AWG    | 1/0 - 6 AWG          | Pink       | 1.598      | 0.520       | 0.520       | 1/0  | 1            | 1               | (225)                 | 25             |
| SC-2/OB  | 2/0 AWG    | 2/0 - 4 AWG          | Black      | 1.752      | 0.560       | 0.563       | 2/0  | 1/0          | 1/0             | 1/0 (275)             | 25             |
| SC-3/OB  | 3/0 AWG    | 3/0 - 2 AWG          | Orange     | 1.752      | 0.620       | 0.622       | 3/0  | 2/0          | –               | 2/0 (325)             | 25             |
| SC-4/OB  | 4/0 AWG    | 4/0 - 1 AWG          | Purple     | 1.902      | 0.690       | 0.689       | 4/0  | 3/0          | 2/0             | 3/0 (450)             | 25             |
| SC-250B  | 250 MCM    | 250 MCM - 1/0 AWG    | Yellow     | 2.000      | 0.750       | 0.752       | 250  | –            | 3/0             | 4/0 (550)             | 25             |
| SC-300B  | 300 MCM    | 300 MCM - 2/0 AWG    | White      | 2.098      | 0.810       | 0.815       | 300  | 4/0          | 4/0             | 262.6                 | 12             |
| SC-350B  | 350 MCM    | 350 MCM - 3/0 AWG    | Red        | 2.098      | 0.870       | 0.874       | 350  | 250          | 250             | 313.1                 | 12             |

# CONNECTORS

## Compression Connectors

### Copper Soldering Lugs

#### S Series

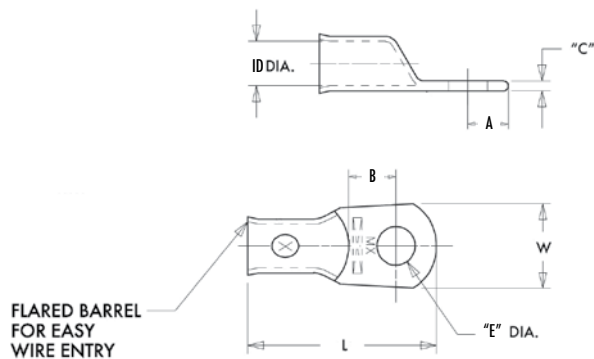


#### SPECIFICATIONS

- Temperature Rating: 90 °C.
- Voltage: 600V.

#### FEATURES

- Made of pure electrolytic copper single hole.
- Side formed with round ends.
- All lugs marked with ampere rating.



| CAT. NO. | WIRE SIZE | AMPERES | LENGTH (L) (IN.) | WIDTH (W) (IN.) | BARREL I.D. | HOLE DIAMETER (E) (IN.) | TANG THICKNESS (C) (IN.) | TANG LENGTH (A) (IN.) | END OF CONN. TO CTR. OF 1ST HOLE (A) (IN.) | STD CTN. QTY. |
|----------|-----------|---------|------------------|-----------------|-------------|-------------------------|--------------------------|-----------------------|--|---------------|
| S-1      | 10        | 25      | 0.847            | 0.267           | 0.192       | 0.160                   | 0.057                    | 0.464                 | 0.238                                      | 100           |
| S-2      | 8         | 30-35   | 1.313            | 0.594           | 0.270       | 0.278                   | 0.070                    | 0.720                 | 0.342                                      | 100           |
| S-3      | 6         | 45-50   | 1.180            | 0.456           | 0.315       | 0.200                   | 0.068                    | 0.555                 | 0.275                                      | 100           |
| S-4      | 4         | 60-70   | 1.500            | 0.531           | 0.386       | 0.278                   | 0.080                    | 0.685                 | 0.310                                      | 100           |
| S-5      | 2         | 90      | 1.625            | 0.625           | 0.427       | 0.340                   | 0.095                    | 0.730                 | 0.350                                      | 50            |
| S-6      | 1/0       | 100-125 | 1.844            | 0.728           | 0.493       | 0.278                   | 0.110                    | 0.840                 | 0.407                                      | 50            |
| S-7      | 2/0       | 150     | 2.062            | 0.824           | 0.560       | 0.400                   | 0.110                    | 0.950                 | 0.465                                      | 50            |
| S-8      | 3/0       | 175     | 2.156            | 0.916           | 0.624       | 0.400                   | 0.115                    | 0.950                 | 0.520                                      | 25            |
| S-9      | 4/0       | 200-225 | 2.344            | 0.999           | 0.682       | 0.400                   | 0.135                    | 1.012                 | 0.510                                      | 25            |
| S-10     | 250       | 250     | 2.573            | 1.187           | 0.799       | 0.404                   | 0.140                    | 1.2                   | 0.565                                      | 25            |

# CONNECTORS

## Compression Connectors

C-Taps  
CT Series



### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Listed Grounding & Bonding.
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.

### FEATURES

- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.
- Rated for 600V applications.

CONNECTORS

**FOR TOOL/DIE CRIMPING INFORMATION,  
PLEASE SEE TABLE ON PAGE 88**

| CAT. NO. | WIRE SIZE |           | COLOR CODE | STD. CTN. QTY. |
|----------|-----------|-----------|------------|----------------|
|          | MAIN      | BRANCH    |            |                |
| CT-101   | 14        | 16        | Red        | 100            |
|          | 12        | 14        | Red        | 100            |
| CT-102   | 10        | 10        | Blue       | 100            |
|          | 8         | 12        | Blue       | 100            |
| CT-103   | 6         | 10-12     | Gray       | 100            |
|          | 8         | 8-10      | Gray       | 100            |
| CT-104   | 4 or 5    | 8-10-12   | Brown      | 100            |
|          | 6         | 6-8       | Brown      | 100            |
| CT-105   | —         | 6-8-10-12 | Green      | 100            |
|          | 4 or 5    | 6-5       | Green      | 100            |
| CT-106   | —         | 5         | Pink       | 100            |
|          | 4         | 4         | Pink       | 100            |
| CT-107   | 1         | —         | Black      | 50             |
|          | 2         | 4-5       | Black      | 50             |
|          | 3         | 3-4       | Black      | 50             |
| CT-108   | 1/0       | 4         | Orange     | 50             |
|          | 1         | 3-4       | Orange     | 50             |
|          | 2         | 2-3       | Orange     | 50             |
| CT-109   | 2/0       | 3-4       | Purple     | 50             |
|          | 1/0       | 2-3       | Purple     | 50             |
|          | -         | 1-2       | Purple     | 50             |
| CT-110   | 3/0       | 2-3-4     | Yellow     | 25             |
|          | 2/0       | 1-2       | Yellow     | 25             |
|          | 1/0       | 1/0-1     | Yellow     | 25             |

# CONNECTORS

## Compression Connectors

C-Taps  
CTH Series



### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Listed Grounding & Bonding.
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V.

### FEATURES

- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250 for connecting to the grounding electrode system.
- Rated for 600V applications.

**FOR TOOL/DIE CRIMPING INFORMATION,  
PLEASE SEE TABLE ON PAGE 88**

| CAT. NO. | WIRE SIZE |         | COLOR CODE | STD. CTN. QTY. |
|----------|-----------|---------|------------|----------------|
|          | MAIN      | BRANCH  |            |                |
| CTH-111  | 1         | 1       | Blue       | 25             |
|          | 1/0       | 1/0-2   | Blue       | 25             |
|          | 2/0       | 2/0-4   | Blue       | 25             |
|          | 3/0       | 1/0-6   | Blue       | 25             |
|          | 4/0       | 1-8     | Blue       | 25             |
| CTH-112  | 2/0       | 2/0-1   | Brown      | 25             |
|          | 3/0       | 3/0-3   | Brown      | 25             |
|          | 4/0       | 4/0-4   | Brown      | 25             |
|          | 250       | 1/0-8   | Brown      | 25             |
| CTH-113  | 2/0       | 2/0-1   | Pink       | 12             |
|          | 3/0       | 3/0-2   | Pink       | 12             |
|          | 4/0       | 4/0-4   | Pink       | 12             |
|          | 250       | 3/0-6   | Pink       | 12             |
|          | 300       | 2/0-8   | Pink       | 12             |
| CTH-114  | 4/0       | 4/0-2/0 | Black      | 6              |
|          | 250       | 250-1   | Black      | 6              |
|          | 300       | 4/0-4   | Black      | 6              |
|          | 350       | 3/0-6   | Black      | 6              |
| CTH-115  | 250       | 250     | Yellow     | 6              |
|          | 300       | 300-3/0 | Yellow     | 6              |
|          | 350       | 350-1/0 | Yellow     | 6              |
|          | 400       | 300-2   | Yellow     | 6              |
|          | 450       | 250-4   | Yellow     | 6              |
|          | 500       | 250-6   | Yellow     | 6              |
| CTH-116  | 350       | 350-4/0 | White      | 3              |
|          | 400       | 400-2/0 | White      | 3              |
|          | 450       | 450-1   | White      | 3              |
|          | 500       | 500-2   | White      | 3              |
| CTH-117  | 750-500   | 4/0-6   | -          | 3              |
|          | 750       | 750-4/0 | White      | 3              |

# CONNECTORS

## Compression Connectors

Copper "C" Taps  
CTH Series



### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL467 Listed Grounding & Bonding.
- \* CLASS B OR C BUILDING WIRE CU CABLE ONLY.
- Temperature Rating: 90 °C.
- Voltage: 600V.

### FEATURES

- Range-taking compression connectors made from high conductivity copper alloy.
- Ideal for making tap or parallel copper connections from 8 SOL to 4/0 STR conductors.
- Provides consistent reliability with heavy wall construction that prevents relaxation of the joint after installation.
- Installation time is reduced because of its "C" shape.

CONNECTORS

**FOR TOOL/DIE CRIMPING INFORMATION,  
PLEASE SEE TABLE ON PAGE 89**

| CAT. NO. | CONDUCTOR RANGE   |                   | STRIP LENGTH (IN.) | STD. CTN. QTY. |
|----------|-------------------|-------------------|--------------------|----------------|
|          | RUN               | TAP               |                    |                |
| CTH-46   | 6 SOL - 4 STR     | 6 SOL - 6 STR     | 3/4                | 25             |
| CTH-44   | 6 SOL - 4 STR     | 4 SOL - 4 STR     | 3/4                | 25             |
| CTH-24   | 2 SOL - 2 STR     | 8 SOL - 4 STR     | 7/8                | 10             |
| CTH-22   | 2 SOL - 2 STR     | 2 SOL - 2 STR     | 7/8                | 25             |
| CTH-2020 | 1/0 STR - 2/0 STR | 1/0 STR - 2/0 STR | 11/16              | 3              |
| CTH-4020 | 3/0 STR - 4/0 STR | 1/0 STR - 2/0 STR | 13/16              | 3              |
| CTH-4040 | 3/0 STR - 4/0 STR | 3/0 STR - 4/0 STR | 13/16              | 3              |

# CONNECTORS

## Split Bolt Connectors

### Copper Split Bolts 2 Wire

#### N Series



#### SPECIFICATIONS

- UL486A Listed Wire Connector.
- UL486D Listed Direct Bury.

#### FEATURES

- High strength solderless service connector made of high-copper alloy for copper and copperweld wires.
- Type for two maximum wire sizes.

| CAT. NO. | COPPER CONDUCTOR          |          |                             | MAXIMUM CONDUCTOR COPPERWELD |        | WIRE DIA. RANGE IN. | REC. TORQUE (IN. LB.) | STD. CTN. QTY. |
|----------|---------------------------|----------|-----------------------------|------------------------------|--------|---------------------|-----------------------|----------------|
|          | RANGE OF EQUAL MAIN & TAP |          | MIN. TAP WITH ONE MAX. MAIN | STR                          | TYPE A |                     |                       |                |
|          | MIN.                      | MAX.     |                             |                              |        |                     |                       |                |
| N-10     | 16 STR                    | 10 STR   | 16 STR                      | –                            | –      | 0.057 – 0.116       | 80                    | 100            |
| N-8      | 16 STR                    | 8 STR    | 16 STR                      | –                            | –      | 0.057 – 0.145       | 80                    | 100            |
| N-6      | 10 SOL                    | 6 SOL    | 16 SOL                      | –                            | –      | 0.102 – 0.162       | 165                   | 100            |
| N-4      | 8 SOL                     | 4 SOL    | 16 SOL                      | 3 NO.12                      | 8A     | 0.128 – 0.204       | 165                   | 75             |
| N-3      | 6 SOL                     | 2 SOL    | 16 SOL                      | 3 NO. 9                      | 5A     | 0.162 – 0.258       | 275                   | 50             |
| N-2      | 6 SOL                     | 2 STR    | 14 STR                      | 3 NO. 7                      | 3A     | 0.162 – 0.292       | 275                   | 40             |
| N-1/0    | 4 SOL                     | 1/0 STR  | 14 SOL                      | 3 NO. 6                      | 2A     | 0.204 – 0.375       | 385                   | 20             |
| N-2/0    | 2 SOL                     | 2/0 STR  | 14 STR                      | 3 NO. 5                      | –      | 0.258 – 0.418       | 385                   | 15             |
| N-3/0    | 2 SOL                     | 3/0 STR  | 12 SOL                      | 7 NO. 7                      | –      | 0.258 – 0.470       | 500                   | 10             |
| N-250    | 1/0 SOL                   | 250 MCM  | 10 SOL                      | 7 NO. 5                      | –      | 0.325 – 0.575       | 650                   | 6              |
| N-350    | 4/0 STR                   | 350 MCM  | 8 SOL                       | 19 NO. 7                     | –      | 0.528 – 0.682       | 650                   | 4              |
| N-500    | 250 MCM                   | 500 MCM  | 8 SOL                       | 19 NO. 6                     | –      | 0.575 – 0.815       | 825                   | 3              |
| N-750    | 350 MCM                   | 750 MCM  | 8 SOL                       | 19 NO. 5                     | –      | 0.682 – 0.999       | 1000                  | 2              |
| N-1000   | 500 MCM                   | 1000 MCM | 8 SOL                       | –                            | –      | 0.815 – 1.153       | 1100                  | 2              |

# CONNECTORS

## Split Bolt Connectors

### Copper Split Bolts 3 Wire

#### N-L Series



#### SPECIFICATIONS

- UL486A Listed Wire Connector.

#### FEATURES

- High strength solderless service connector made of high-copper alloy for copper and copperweld wires.
- Type for three maximum wire sizes.

| CAT. NO. | MAXIMUM WIRE SIZE | MIN. TAP WITH | MAX. RUN | STD. CTN. QTY. |
|----------|-------------------|---------------|----------|----------------|
| N-8L     | 8 STR             | 14 STR        |          | 100            |
| N-6L     | 6 STR             | 12 STR        |          | 100            |
| N-4L     | 4 STR             | 12 STR        |          | 75             |
| N-3L     | 3 STR             | 10 STR        |          | 40             |
| N-2L     | 2 STR             | 10 STR        |          | 30             |



# CONNECTORS

## Split Bolt Connectors

Copper Tin Plated With Spacer Dual Rated Split Bolts  
N-SP Series



### SPECIFICATIONS

- UL486A/B Listed Wire Connector.
- UL486D Listed Direct Bury.

### FEATURES

- Aluminum to copper (Dual Rated).
- Aluminum to aluminum.
- Steel to aluminum.
- Copper to copper.
- Steel to copper.
- Electro-tinned body.
- UL listed for copper and copperweld wires only.
- Includes nut, spacer and pressure pad.

| CAT. NO. | CONDUCTOR                    |          | ACSR                           |      | WIRE DIA.<br>RANGE<br>IN. | REC.<br>TORQUE<br>(IN. LB.) | STD. CTN. QTY. |      |
|----------|------------------------------|----------|--------------------------------|------|---------------------------|-----------------------------|----------------|------|
|          | RANGE OF EQUAL<br>MAIN & TAP |          | RANGE OF MAIN OR TAP           |      |                           |                             |                |      |
|          | MIN.                         | MAX.     | MIN. TAP WITH ONE<br>MAX. MAIN | MIN. |                           |                             |                | MAX. |
| N-6SP    | 14 STR                       | 8 STR    | 14 STR                         | —    | 8                         | 0.073 - 0.146               | 165            | 100  |
| N-4SP    | 10 STR                       | 6 STR    | 10 SOL                         | —    | 6                         | 0.116 - 0.184               | 165            | 75   |
| N-3SP    | 8 SOL                        | 3 STR    | 8 SOL                          | 6    | 4                         | 0.128 - 0.258               | 275            | 50   |
| N-2SP    | 8 SOL                        | 2 STR    | 8 SOL                          | 6    | 2                         | 0.128 - 0.316               | 275            | 40   |
| N-1/OSP  | 6 SOL                        | 1/0 STR  | 10 SOL                         | 6    | 1                         | 0.162 - 0.375               | 385            | 20   |
| N-2/OSP  | 6 STR                        | 2/0 STR  | 10 SOL                         | 6    | 1/0                       | 0.184 - 0.419               | 385            | 15   |
| N-3/OSP  | 4 STR                        | 3/0 STR  | 6 SOL                          | 6    | 2/0                       | 0.198 - 0.470               | 500            | 10   |
| N-250SP  | 4 STR                        | 250 MCM  | 4 STR                          | 4    | 4/0                       | 0.232 - 0.575               | 650            | 6    |
| N-350SP  | 3/0 STR                      | 350 MCM  | 1 SOL                          | 2/0  | 350                       | —                           | 650            | 4    |
| N-500SP  | 3/0 STR                      | 500 MCM  | 1/0 STR                        | 2/0  | 477 18/1                  | —                           | 825            | 3    |
| N-750SP  | 250 MCM                      | 750 MCM  | 2/0 STR                        | 4/0  | 666.6                     | —                           | 1000           | 2    |
| N-1000SP | 250 MCM                      | 1000 MCM | 4/0 STR                        | 300  | 900                       | —                           | 1100           | 2    |

# CONNECTORS

## Split Bolt Connectors

Aluminum, Dual Rated Split Bolts

APS Series



### SPECIFICATIONS

- UL486A/B Listed Wire Connector.

### FEATURES

- Made from tin-plated aluminum.
- UL-486B listed for aluminum and copper conductor combinations (Dual Rated).

| CAT. NO.         | RANGE OF EQUAL MAIN AND TAP (COPPER AND ALUMINUM) | WIRE DIAMETER RANGE (IN.) | RECOMMENDED TORQUE (IN. LB.) | STD. CTN. QTY. |
|------------------|---|---------------------------|------------------------------|----------------|
| APS06            | 10 SOL. – 6 STR                                   | 0.101 – 0.184             | 165                          | 100            |
| APS04            | 10 SOL. – 4 STR                                   | 0.101 – 0.232             | 165                          | 75             |
| APS02            | 8 STR. – 2 STR                                    | 0.146 – 0.292             | 275                          | 40             |
| APS11            | 8 SOL. – 1/0 STR                                  | 0.162 – 0.375             | 385                          | 20             |
| APS21            | 2 SOL. – 2/0 STR                                  | 0.257 – 0.418             | 390                          | 15             |
| APS41            | 6 STR. – 4/0 STR                                  | 0.368 – 0.575             | 650                          | 6              |
| APS350 (Not CSA) | 2/0 STR. – 350 MCM                                | 0.414 – 0.681             | 650                          | 3              |
| APS500           | 3/0 STR. – 500 MCM                                | 0.464 – 0.814             | 825                          | 2              |

# CONNECTORS

## Service Post Connectors

### One-Wire Type

#### SPM Series



#### SPECIFICATIONS

- UL486A/B Listed Wire Connector.
- UL467 Listed Grounding & Bonding.

#### FEATURES

- Made from high copper content hard-drawn rod; used for connecting one or two conductors.
- Lay-in feature makes them excellent for continuous
- loop grounding and bonding.
- Used to ground to bar or plate.
- Suitable for direct burial in earth or concrete.

| CAT. NO. | CONDUCTOR RANGE   | STUD SIZE          | HEX NUT    | STD. CTN. QTY. |
|----------|-------------------|--------------------|------------|----------------|
| SPM-1L   | 12 SOL - 8 STR    | 0.250 X 20-1       | 0.375 X 24 | 25             |
| SPM-2L   | 8 SOL - 7 STR     | 0.250 x 20-1       | 0.437 x 20 | 25             |
| SPM-3L   | 10 SOL - 4 STR    | 0.312 x 18-1       | 0.500 x 20 | 25             |
| SPM-4L   | 6 SOL - 3 STR     | 0.375 x 16 – 1.125 | 0.562 x 18 | 12             |
| SPM-5L   | 4 STR - 2 STR     | 0.375 x 16 – 1.125 | 0.625 x 18 | 12             |
| SPM-6L   | 6 SOL - 1/0 STR   | 0.500 x 13 – 1.250 | 0.750 x 16 | 12             |
| SPM-7L   | 1 SOL - 2/0 STR   | 0.500 x 13 – 1.250 | 0.875 x 14 | 6              |
| SPM-9L   | 3/0 SOL - 4/0 STR | 0.625 x 11 – 1.500 | 1.125 x 11 | 3              |

# CONNECTORS

## Service Post Connectors

### Two-Wire Type

### SPM Series



#### SPECIFICATIONS

- UL486A/B Listed Wire Connector.
- UL467 Listed Grounding & Bonding.

#### FEATURES

- Made from high copper content hard-drawn rod; used for connecting one or two conductors.
- Lay-in feature makes them excellent for continuous
- loop grounding and bonding.
- Used to ground to bar or plate.
- Suitable for direct burial in earth or concrete.

| CAT. NO. | CONDUCTOR RANGE | STUD SIZE          | HEX NUT    | STD. CTN. QTY. |
|----------|-----------------|--------------------|------------|----------------|
| SPM-21L  | 12 SOL - 8 STR  | 0.250 X 20 – 1     | 0.375 X 24 | 25             |
| SPM-22L  | 10 SOL - 7 STR  | 0.250 x 20 – 1     | 0.437 x 20 | 25             |
| SPM-23L  | 8 SOL - 5 STR   | 0.312 x 18 – 1     | 0.500 x 20 | 25             |
| SPM-24L  | 6 SOL - 3 STR   | 0.375 x 16 – 1.125 | 0.562 x 18 | 12             |
| SPM-25L  | 10 SOL - 2 STR  | 0.375 x 16 – 1.125 | 0.625 x 18 | 12             |
| SPM-26L  | 4 SOL - 1/0 STR | 0.500 x 13 – 1.250 | 0.750 x 16 | 12             |
| SPM-27L  | 2 SOL - 2 STR   | 0.500 x 13 – 1.250 | 0.875 x 14 | 6              |
| SPM-29L  | 1 SOL - 4/0 STR | 0.625 x 11 – 1.500 | 1.125 x 11 | 3              |

# CONNECTORS

## Tap Connectors

### Two-Bolt Bronze for Copper to Copper

#### TC Series



#### FEATURES

- Made from high strength bronze castings — assurance against stress corrosion and season cracking.
- Designed for heavy-duty service connections.
- The cap swivels to permit quick and easy installation of conductors.
- Retaining rubber washer eliminates loose parts.
- Silicon bronze hardware.
- Flat back permits use as bus tap when used with longer bolts.

| CAT. NO. | MAIN WIRE RANGE |         | TAP WIRE RANGE |       | STD. CTN. QTY. |
|----------|-----------------|---------|----------------|-------|----------------|
|          | MAX.            | MIN.    | MAX.           | MIN.  |                |
| TC1/0    | 1/0 STR         | 2 SOL   | 1/0 STR        | 6 SOL | 10             |
| TC2/0    | 2/0 STR         | 1 SOL   | 2/0 STR        | 6 SOL | 10             |
| TC4/0    | 4/0 STR         | 2/0 STR | 4/0 STR        | 6 SOL | 6              |
| TC350    | 350 MCM         | 4/0 STR | 350 MCM        | 4 SOL | 5              |
| TC500    | 500 MCM         | 350 MCM | 500 MCM        | 4 SOL | 5              |
| TC800    | 800 MCM         | 600 MCM | 800 MCM        | 2 SOL | 3              |
| TC1000   | 1000 MCM        | 750 MCM | 1000 MCM       | 2 SOL | 2              |

# CONNECTORS

## TAP Connectors

Two-Bolt Bronze, Dual Rated for Aluminum, Copper & Steel  
TCP Series



CONNECTORS

### FEATURES

- All parts are tin plated.
- Made from high strength bronze castings with high conductivity spacer bar.
- Designed for heavy-duty service connections.
- The cap swivels to permit quick and easy installation of conductors.
- Retaining rubber washer eliminates loose parts.
- Silicon bronze hardware.
- Flat back permits use as bus tap when used with longer bolts.

| CAT. NO. | MAIN WIRE RANGE |         | TAP WIRE RANGE |       | STD. CTN. QTY. |
|----------|-----------------|---------|----------------|-------|----------------|
|          | MAX.            | MIN.    | MAX.           | MIN.  |                |
| TCP1/0   | 1/0 STR         | 2 SOL   | 1/0 STR        | 6 SOL | 10             |
| TCP2/0   | 2/0 STR         | 1 SOL   | 2/0 STR        | 6 SOL | 10             |
| TCP4/0   | 4/0 STR         | 2/0 STR | 4/0 STR        | 6 SOL | 6              |
| TCP350   | 350 MCM         | 4/0 STR | 350 MCM        | 4 SOL | 5              |
| TCP500   | 500 MCM         | 350 MCM | 500 MCM        | 4 SOL | 5              |
| TCP800   | 800 MCM         | 600 MCM | 800 MCM        | 2 SOL | 3              |
| TCP1000  | 1000 MCM        | 750 MCM | 1000 MCM       | 2 SOL | 2              |

# CONNECTORS EASY-TAP™

## Dual Rated, Insulation Piercing Connectors IPCS Series

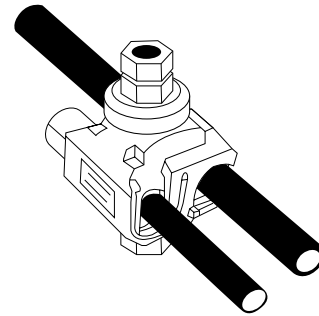


### SPECIFICATIONS

- UL486B Listed Wire Connector.
- Meets ANSI C119.4 requirements.
- Temperature Rating: 90 °C.
- Voltage: 600V.

### FEATURES

- Safe to use, versatile and reliable.
- No need to strip wire and totally insulated.
- No tape or cover needed.
- No contact at any point with a live part.
- Can be installed on energized conductors.
- No spacer required between connections.
- Exclusive "turbo spacer" keeps tap side open while main conductor is being tightened.
- No need for a third hand to install.
- Watertight and corrosion-free.
- Connection sealed by a rubber grommet.
- No migration of water.
- No contamination between main and tap.
- Connectors handle a large wire range of #14awg to 750mcm.
- Double shear-head bolts ensure perfect connection every time Hot spots eliminated.
- Can be used as a splice or a tap.
- Easy to install and no special tools required.
- For copper-to-copper, copper-to-aluminum and aluminum-to-aluminum applications.
- Suitable for solid and/or stranded wires.
- 4 sizes are approved for use with bare wire (from 4/0 to #10) - these connectors come with a blue insert which re-creates the insulation and avoids any damage to the conductor.
- \*Cannot be used with bare wire or as a splice.
- \*\*Cannot be used with bare wire. All sizes can be installed on energized main conductor, however, the tap must not be under load.
- Not recommended for use with extra-flexible cables. Not approved for submersible applications.



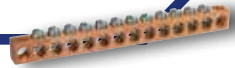
| CAT. NO.          | CONDUCTOR RANGE |           | CURRENT RATING |        | DIMENSIONS (IN.) |       |        | NO. OF BOLTS | STD. PACK QTY. | STD. CTN. QTY. |
|-------------------|-----------------|-----------|----------------|--------|------------------|-------|--------|--------------|----------------|----------------|
|                   | MAIN AWG        | TAP AWG   | CU AMP         | AL AMP | HEIGHT           | WIDTH | LENGTH |              |                |                |
| IPCS2001*         | 2/0 – 4         | 10 – 14   | 55             | 40     | 3.000            | 1.800 | 2.200  | 1            | 1              | 6              |
| IPCS7501*         | 750 – 3/0       | 10 – 14   | 55             | 40     | 3.700            | 2.400 | 2.600  | 1            | 1              | 6              |
| IPCS1002 (Not UL) | 1/0 – 8         | 2 – 10    | 190            | 150    | 3.100            | 1.800 | 2.200  | 1            | 1              | 6              |
| IPCS1010 (Not UL) | 1/0 – 8         | 1/0 – 8   | 190            | 150    | 3.100            | 1.800 | 2.200  | 1            | 1              | 6              |
| IPCS4002*         | 4/0 – 3         | 2 – 10    | 190            | 150    | 3.100            | 1.800 | 2.200  | 1            | 1              | 6              |
| IPCS4020 (Not UL) | 4/0 – 2         | 2/0 – 6   | 300            | 235    | 3.300            | 2.200 | 2.600  | 1            | 1              | 4              |
| IPCS4040 (Not UL) | 4/0 – 2         | 4/0 – 4   | 405            | 315    | 3.300            | 2.400 | 3.500  | 1            | 1              | 4              |
| IPCS2540**        | 250 – 1         | 4/0 – 4   | 405            | 315    | 3.500            | 2.200 | 2.600  | 1            | 1              | 4              |
| IPCS3535**        | 350 – 1/0       | 350 – 1/0 | 570            | 445    | 4.500            | 3.000 | 3.900  | 2            | 1              | 2              |
| IPCS5040**        | 500 – 2/0       | 4/0 – 4   | 405            | 315    | 4.500            | 3.000 | 3.900  | 2            | 1              | 2              |
| IPCS5035**        | 500 – 4/0       | 350 – 1/0 | 570            | 445    | 4.500            | 3.000 | 3.900  | 2            | 1              | 2              |
| IPCS7550**        | 750 – 250       | 500 – 250 | 700            | 545    | 4.700            | 3.300 | 4.300  | 2            | 1              | 2              |



# CONNECTORS

## Multiple Connectors

Used in Neutral Assemblies & Grounding Applications



### FEATURES

- Multiple connectors are made from either copper or aluminum bar and can be used in a variety of neutral and grounding applications. Aluminum connectors are tin plated for low contact resistance and are suitable for use with copper or aluminum conductors. Aluminum connectors are dual rated for use with aluminum and copper cables.
- Copper connectors are suitable for use with copper wire only.
- \*Supplied with screws unassembled.

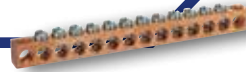
| CAT. NO.   | MATERIAL | WIRE RANGE | NO. OF CIRCUITS | TOTAL NO. OF HOLES | LENGTH (IN.) | HEIGHT (IN.) | WIDTH (IN.) | HOLE SPACING (IN.) | MTNG. HOLE POSITION | STD. CTN. QTY. |
|------------|----------|------------|-----------------|--------------------|--------------|--------------|-------------|--------------------|---------------------|----------------|
| 4-14-32    | Aluminum | 4-14       | 2               | 3                  | 0.950        | 0.440        | 0.310       | 0.312              | 2                   | 100            |
| 4-14-53    | Aluminum | 4-14       | 4               | 5                  | 1.570        | 0.440        | 0.310       | 0.312              | 3                   | 100            |
| 4-14-63    | Aluminum | 4-14       | 5               | 6                  | 1.880        | 0.440        | 0.310       | 0.312              | 3                   | 100            |
| 4-14-74    | Aluminum | 4-14       | 6               | 7                  | 2.250        | 0.440        | 0.310       | 0.312              | 4                   | 100            |
| 4-14-614   | Aluminum | 4-14       | 4               | 6                  | 1.880        | 0.440        | 0.310       | 0.312              | 1 & 4               | 100            |
| 4-14-717   | Aluminum | 4-14       | 5               | 7                  | 2.250        | 0.440        | 0.310       | 0.312              | 1 & 7               | 100            |
| 4-14-726   | Aluminum | 4-14       | 5               | 7                  | 2.250        | 0.440        | 0.310       | 0.312              | 2 & 6               | 100            |
| 4-14-847   | Aluminum | 4-14       | 6               | 8                  | 2.560        | 0.440        | 0.310       | 0.312              | 4 & 7               | 100            |
| 4-14-937   | Aluminum | 4-14       | 7               | 9                  | 2.870        | 0.440        | 0.310       | 0.312              | 3 & 7               | 100            |
| 4-14-11111 | Aluminum | 4-14       | 9               | 11                 | 3.500        | 0.440        | 0.310       | 0.312              | 1 & 11              | 50             |
| 4-14-12112 | Aluminum | 4-14       | 10              | 12                 | 3.810        | 0.440        | 0.310       | 0.312              | 1 & 12              | 50             |
| 4-14-14114 | Aluminum | 4-14       | 12              | 14                 | 4.430        | 0.440        | 0.310       | 0.312              | 1 & 14              | 50             |
| 4-14-17117 | Aluminum | 4-14       | 15              | 17                 | 5.370        | 0.440        | 0.310       | 0.312              | 1 & 17              | 50             |
| 4-14-22122 | Aluminum | 4-14       | 20              | 22                 | 6.930        | 0.440        | 0.310       | 0.312              | 1 & 22              | 50             |
| 4-14-190*  | Aluminum | 4-14       | 190             | 190                | 60.000       | 0.440        | 0.310       | 0.312              | —                   | 10             |

# CONNECTORS

## Multiple Connectors

Used in Neutral Assemblies & Grounding Applications

Cont'd



### FEATURES

- Multiple connectors are made from either copper or aluminum bar and can be used in a variety of neutral and grounding applications. Aluminum connectors are tin plated for low contact resistance and are suitable for use with copper or aluminum conductors. Aluminum connectors are dual rated for use with aluminum and copper cables.
- Copper connectors are suitable for use with copper wire only.
- \*Supplied with screws unassembled.

| CAT. NO.    | MATERIAL | WIRE RANGE | NO. OF CIRCUITS | TOTAL NO. OF HOLES | LENGTH (IN.) | HEIGHT (IN.) | WIDTH (IN.) | HOLE SPACING (IN.) | MTNG. HOLE POSITION | STD. CTN. QTY. |
|-------------|----------|------------|-----------------|--------------------|--------------|--------------|-------------|--------------------|---------------------|----------------|
| 2-14-12311  | Aluminum | 2-14       | 10              | 12                 | 4.120        | 0.500        | 0.380       | 0.340              | 3 & 11              | 50             |
| 2/0-14-32   | Aluminum | 2/0-14     | 2               | 3                  | 1.750        | 0.750        | 0.560       | 0.601              | 2                   | 25             |
| 2/0-14-524  | Aluminum | 2/0-14     | 3               | 5                  | 2.950        | 0.750        | 0.560       | 0.601              | 2 & 4               | 25             |
| 2/0-14-818  | Aluminum | 2/0-14     | 6               | 8                  | 4.750        | 0.750        | 0.560       | 0.601              | 1 & 8               | 25             |
| 4C-14-616   | Copper   | 4-14       | 4               | 6                  | 1.940        | 0.440        | 0.310       | 0.312              | 1 & 6               | 100            |
| 4C-14-717   | Copper   | 4-14       | 5               | 7                  | 2.250        | 0.440        | 0.310       | 0.312              | 1 & 7               | 100            |
| 4C-14-818   | Copper   | 4-14       | 6               | 8                  | 2.56         | 0.440        | 0.310       | 0.312              | 1 & 8               | 100            |
| 4C-14-14114 | Copper   | 4-14       | 12              | 14                 | 4.430        | 0.440        | 0.310       | 0.312              | 1 & 14              | 50             |
| 4C-14-15313 | Copper   | 4-14       | 13              | 15                 | 4.740        | 0.440        | 0.310       | 0.312              | 3 & 13              | 50             |
| 4C-14-15611 | Copper   | 4-14       | 13              | 15                 | 4.740        | 0.440        | 0.310       | 0.312              | 6 & 11              | 50             |
| 4C-190*     | Copper   | 4-14       | 190             | 190                | 60.000       | 0.440        | 0.310       | 0.312              | —                   | 10             |
| 2C-14-515   | Copper   | 2-14       | 3               | 5                  | 2.000        | 0.500        | 0.380       | 0.397              | 1 & 5               | 50             |
| 2C-14-827   | Copper   | 2-14       | 6               | 8                  | 3.250        | 0.500        | 0.380       | 0.397              | 2 & 7               | 50             |

# CONNECTORS

## Multiple Connectors

### Copper Neutral Connectors

#### CN Series



#### SPECIFICATIONS

- Temperature Rating: 90 °C.
- Voltage: 600V.



#### FEATURES

- NSi copper neutral connectors are manufactured from high strength pure electrolytic copper tube to ensure both maximum strength and conductivity.
- Plain copper finish.
- Suitable for use with copper conductors only.

| CAT. NO.  | LINE RANGE | NO. OF CIRCUITS | CIRCUIT RANGE | MTG. HOLES | LENGTH (IN.) | HEIGHT (IN.) | WIDTH (IN.) | STD. CTN. QTY. |
|-----------|------------|-----------------|---------------|------------|--------------|--------------|-------------|----------------|
| CN70-10-1 | 4-14       | 8               | 6-14          | 2 x .20    | 4.370        | 0.750        | 0.340       | 100            |
| CN70-14-1 | 4-14       | 12              | 6-14          | 2 x .20    | 5.940        | 0.750        | 0.340       | 100            |

# CONNECTORS

## Multiple Connectors

### Combination Connectors

#### CB Series



#### FEATURES

- Multiple combination connectors are made from aluminum and are tin-plated for low contact resistance.
- Suitable for use with both copper and aluminum conductors.
- Each connector contains a combination of 1/0-14 awg and 6-14 awg wire holes.
- Economical and compact innovative design and hole spacing.
- Dual rated for use with aluminum and copper cables.

| CAT. NO. | NUMBER OF CIRCUITS |          | LENGTH (IN.) | STD. CTN. QTY. |
|----------|--------------------|----------|--------------|----------------|
|          | 1/0-14 AWG         | 6-14 AWG |              |                |
| CB-11    | 3                  | 8        | 3.500        | 25             |
| CB-19    | 5                  | 14       | 5.810        | 25             |
| CB-23    | 6                  | 17       | 7.000        | 25             |
| CB-120   | 30                 | 90       | 36.000       | 10             |

# CONNECTORS

## Neutral Connectors

Neutral 225A 600 VAC

1024 Series



### FEATURES

- These stacked neutral assemblies offer the ultimate in compact design and performance.
- Wire holes are stacked to minimize width. One-piece construction provides superior mechanical performance.
- Made from high strength 6061T-6 aluminum alloy.
- Options include a 350 mcm main lug and a high strength, glass-filled polyester mounting base for isolated mounting.
- Available in 12 to 42 wire holes (4-14 awg).



| CAT. NO. | FIG. NO. | NO. OF 4-14 AWG CIRCUITS | MAIN LUG SIZE | MOUNTING BASE | LENGTH (IN.) | HEIGHT (IN.) | WIDTH (IN.) | STD. CTN. QTY. |
|----------|----------|--------------------------|---------------|---------------|--------------|--------------|-------------|----------------|
| 1012     | 1        | 12                       | NONE          | NO            | 2.068        | 0.875        | 1.500       | 1              |
| 1012M    | 2        | 12                       | 350-6         | no            | 2.193        | 1.375        | 1.500       | 1              |
| 1012B    | 3        | 12                       | none          | yes           | 2.068        | 2.250        | 2.250       | 1              |
| 1012MB   | 4        | 12                       | 350-6         | yes           | 2.193        | 2.750        | 2.250       | 1              |
| 1018     | 1        | 18                       | none          | no            | 3.132        | 0.875        | 1.500       | 1              |
| 1018M    | 2        | 18                       | 350-6         | no            | 3.257        | 1.375        | 1.500       | 1              |
| 1018B    | 3        | 18                       | none          | yes           | 3.132        | 2.250        | 2.250       | 1              |
| 1018MB   | 4        | 18                       | 350-6         | yes           | 3.257        | 2.750        | 2.250       | 1              |
| 1024     | 1        | 24                       | none          | no            | 4.196        | 0.875        | 1.500       | 1              |
| 1024M    | 2        | 24                       | 350-6         | no            | 4.321        | 1.375        | 1.500       | 1              |
| 1024B    | 3        | 24                       | none          | yes           | 4.196        | 2.250        | 2.250       | 1              |
| 1024MB   | 4        | 24                       | 350-6         | yes           | 4.321        | 2.750        | 2.250       | 1              |
| 1030     | 1        | 30                       | none          | no            | 5.260        | 0.875        | 1.500       | 1              |
| 1030M    | 2        | 30                       | 350-6         | no            | 5.385        | 1.375        | 1.500       | 1              |
| 1030B    | 3        | 30                       | none          | yes           | 5.260        | 2.250        | 2.250       | 1              |
| 1030MB   | 4        | 30                       | 350-6         | yes           | 5.385        | 2.750        | 2.250       | 1              |
| 1036     | 1        | 36                       | none          | no            | 6.324        | 0.875        | 1.500       | 1              |
| 1036M    | 2        | 36                       | 350-6         | no            | 6.449        | 1.375        | 1.500       | 1              |
| 1036B    | 3        | 36                       | none          | yes           | 6.324        | 2.250        | 2.250       | 1              |
| 1036MB   | 4        | 36                       | 350-6         | yes           | 6.449        | 2.750        | 2.250       | 1              |
| 1042     | 1        | 42                       | none          | no            | 7.388        | 0.875        | 1.500       | 1              |
| 1042M    | 2        | 42                       | 350-6         | no            | 7.513        | 1.375        | 1.500       | 1              |
| 1042B    | 3        | 42                       | none          | yes           | 7.388        | 2.250        | 2.250       | 1              |
| 1042MB   | 4        | 42                       | 350-6         | yes           | 7.513        | 2.750        | 2.250       | 1              |

# CONNECTORS

## Neutral Connectors

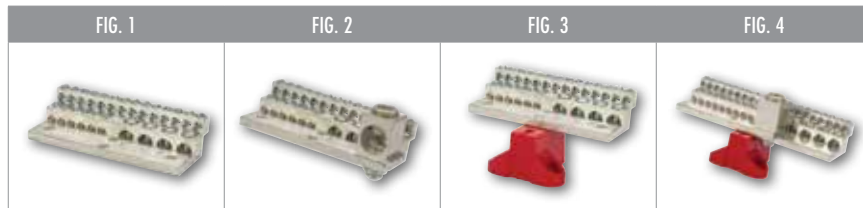
### Neutral Connectors

#### 2024 Series



#### FEATURES

- Multiple combination connectors are made from aluminum and are tin-plated for low contact resistance.
- Suitable for use with both copper and aluminum conductors.
- Each connector contains a combination of 1/0-14 awg and 6-14 awg wire holes.
- Economical and compact due to innovative design and hole spacing.
- Dual rated for use with aluminum and copper cables.



| CAT. NO. | FIG. NO. | NO. OF 4-14 AWG CIRCUITS | NO. OF 1/0-14 AWG CIRCUITS | MAIN LUG SIZE | MOUNTING BASE | LENGTH (IN.) | HEIGHT (IN.) | WIDTH (IN.) | STD. CTN. QTY. |
|----------|----------|--------------------------|----------------------------|---------------|---------------|--------------|--------------|-------------|----------------|
| 2024     | 1        | 20                       | 4                          | NONE          | NO            | 4.332        | 1.025        | 1.687       | 1              |
| 2024M    | 2        | 20                       | 4                          | 350-6         | No            | 4.457        | 1.525        | 1.687       | 1              |
| 2024MB   | 4        | 20                       | 4                          | 350-6         | Yes           | 4.457        | 2.900        | 2.437       | 1              |
| 2030     | 1        | 26                       | 4                          | None          | No            | 5.244        | 1.025        | 1.687       | 1              |
| 2030M    | 2        | 26                       | 4                          | 350-6         | No            | 5.369        | 1.525        | 1.687       | 1              |
| 2030B    | 3        | 26                       | 4                          | None          | Yes           | 5.244        | 2.400        | 2.437       | 1              |
| 2030MB   | 4        | 26                       | 4                          | 350-6         | Yes           | 5.369        | 2.900        | 2.437       | 1              |
| 2036     | 1        | 32                       | 4                          | None          | No            | 6.156        | 1.025        | 1.687       | 1              |
| 2036M    | 2        | 32                       | 4                          | 350-6         | No            | 6.281        | 1.525        | 1.687       | 1              |
| 2036MB   | 4        | 32                       | 4                          | 350-6         | Yes           | 6.281        | 2.900        | 2.437       | 1              |
| 2042M    | 2        | 38                       | 4                          | 350-6         | No            | 7.193        | 1.525        | 1.687       | 1              |
| 2042MB   | 4        | 38                       | 4                          | 350-6         | Yes           | 7.193        | 2.900        | 2.437       | 1              |

# CONNECTORS

## Splices and Taps

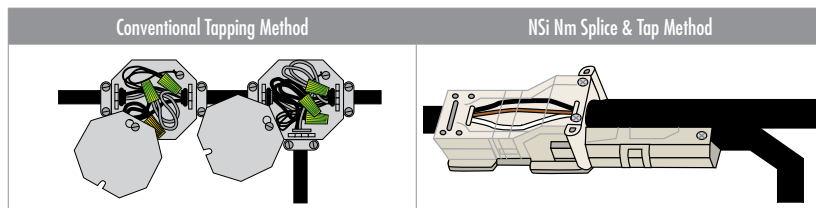
### Non-Metallic Splice

#### NMS, NMT Series

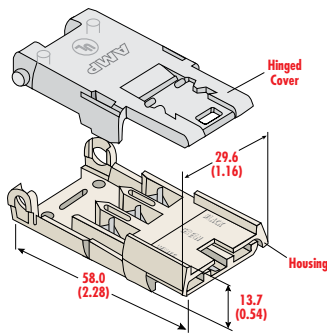


#### FEATURES

- The NSi NM Splice & Tap method provides a fast and reliable way to connect 12 and 14 AWG circuits using non-metallic (NM) cable. It eliminates the need for junction boxes, covers, fittings, connectors – and is approved for use in a variety of applications including: residential branch circuits, manufactured housing and pre-fabricated building structures. When adding new circuits in residential applications, NM connectors eliminate both the need to cut into the existing wiring and the extra junction boxes and associated hardware required for the tap connection.
- In factory installations within pre-fabricated structures, the NM connectors eliminate costly time-consuming on-site wiring. As individual modules are joined, splices and taps are simply snapped together easily by assembly crews with no special training or tools.
- Termination is easy. Split the cable, remove the sheathing and cut the splice conductors to length (if necessary). With the tap, individual conductors do not need to be stripped, only exposed. Clear cover installation is done with slip-joint pliers. The installation displacement contacts eliminate the need to strip individual conductors. Simply plug the connectors together and the installation is complete.
- Compliant with 2014 NEC 334.40 (A) (B).

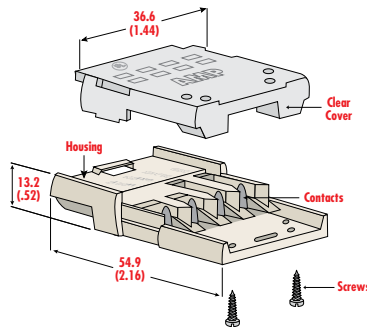


| CAT. NO. | WIRE RANGE  | KIT DESCRIPTION                          | STD. CTN. QTY. |
|----------|-------------|--|----------------|
| NMS-2    | 12 – 14 AWG | SPLICE FOR 2-CONDUCTOR CABLE WITH GROUND | 25             |
| NMS-3    | 12 – 14 AWG | SPLICE FOR 3-CONDUCTOR CABLE WITH GROUND | 25             |
| NMT-2    | 12 – 14 AWG | SPLICE AND TAP KIT FOR 2-CONDUCTOR CABLE | 12             |



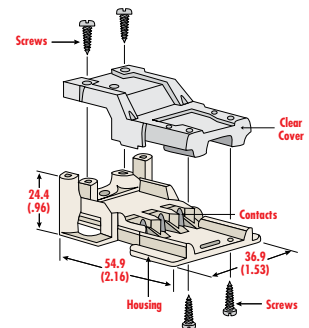
#### NMS - 2 (SPLICE)

For splicing 12 or 14 awg solid conductor, 2-conductor cable with ground. Hinged cover makes termination fast and easy. The NMS-2 kit includes everything required to make a two conductor splice.



#### NMS - 3 (SPLICE)

For splicing 12 or 14 awg solid conductor, 3-conductor cable with ground. The NMS-3 kit includes everything required to make a three conductor splice.



#### NMT - 2 (TAP)

For tapping into 12 or 14 awg solid conductor 2-conductor cable with ground. The NMT-2 kit includes everything required to complete a two conductor tap.



# CONNECTORS

## Connectors Accessories

### Transformer Lug Kits Mechanical Set-Screw Types LK Series



#### SPECIFICATIONS

- UL486B listed Wire Connector.
- Temperature Rating: 90 °C.
- Voltage: 600V.
- AL9CU.

#### FEATURES

- Terminal lugs are dual rated for use with both copper and aluminum cables.

| CAT. NO. | TRANSFORMER<br>KVA SIZE | QTY. | TERMINAL LUGS INCLUDED |             | HARDWARE INCLUDED |                 | STD. CTN. QTY. |
|----------|-------------------------|------|------------------------|-------------|-------------------|-----------------|----------------|
|          |                         |      | LUG TYPE               | WIRE RANGE  | QTY.              | BOLT SIZE       |                |
| LK-1     | 15-37-1/2 1Ø            | 8    | 2T                     | 2-14        | 8                 | 1/4-20X3/4      | 1              |
|          | 15-45-3Ø                | 4    | 250T                   | 250 MCM-6   | 8                 | 1/4-20X3/4      | 1              |
| LK-2     | 50-75 1Ø                | 12   | 250T                   | 250 MCM-6   | 8                 | 1/4-20 x 3/4    | 1              |
|          | 75-112-1/2 3Ø           | 12   | 250T                   | 250 MCM-6   | 8                 | 1/4-20 x 1 3/4  | 1              |
| LK-3     | 100-167 1Ø              | 3    | 250T                   | 250 MCM-6   | 3                 | 1/4-20 x 3/4    | 1              |
|          | 150-300 3Ø              | 22   | 600T                   | 600 MCM-2   | 16                | 3/8-16 x 2      | 1              |
| LK-4     | 500 3Ø                  | 29   | 600T                   | 600 MCM-2   | 18                | 3/8-16 x 2      | 1              |
| LK-5     | 15-25 1Ø                | 7    | 0T                     | 1/0-14      | 7                 | 1/4-20 x 1 1/2  | 1              |
|          | 15-37 1/2 3Ø            | 7    | 0T                     | 1/0-14      | 7                 | 1/4-20 x 1 1/2  | 1              |
| LK-6     | 37 1/2-50 1Ø            | 7    | 250T                   | 250 MCM-6   | 7                 | 5/16-16 x 1 1/2 | 1              |
|          | 45-75 3Ø                | 6    | 350T                   | 350 MCM-6   | 7                 | 5/16-16 x 1 1/2 | 1              |
|          |                         | 3    | 0T                     | 1/0-14      | 3                 | 1/4-20 x 1      | 1              |
| LK-7     | 225 3Ø                  | 6    | 2-350T                 | 350 MCM-6   | 6                 | 1/2-13 x 2      | 1              |
|          |                         | 6    | 350T                   | 350 MCM-6   | 13                | 3/8-16 x 1 1/2  | 1              |
| LK-8     | 225 3Ø                  | 3    | 500T                   | 500 MCM-4   | 7                 | 3/8-16 x 2      | 1              |
|          |                         | 4    | 2-600T                 | 600 MCM-2   | 7                 | 3/8-16 x 2      | 1              |
| LK-9     | 300 3Ø                  | 3    | 2-350T                 | 350 MCM-6   | 7                 | 1/2-13 x 2      | 1              |
|          |                         | 12   | 500T                   | 500 MCM-4   | 4                 | 1/2-13 x 2 1/2  | 1              |
| LK-10    | 400-500 3Ø              | 16   | 800T                   | 800-300 MCM | 11                | 1/2-13 x 2 1/2  | 1              |
|          |                         | 3    | 2-600T                 | 600 MCM-2   | 11                | 1/2-13 x 2 1/2  | 1              |

# COMPRESSION CONNECTORS TOOL/DIE CHART



CRIMP FOR  
DIES:

# COMPRESSION CONNECTORS TOOL/DIE CHARTS

• Tool and Die Charts For Copper Connectors For Connector Series: L, LN, LNB, GL, GLN, GLNB, SLN, C, SC, SCB

| COPPER COMPRESSION CONNECTOR TOOL AND DIE CHART              |   |  |                           |                   |                          |                  |                             |            |                   |            |  | Dieless NSI N121D                  |  |
|--|---|--|---------------------------|-------------------|--------------------------|------------------|-----------------------------|------------|-------------------|------------|--|------------------------------------|--|
| CONNECTOR SERIES: L, LN, LNB, GL, GLN, GLNB, SLN, C, SC, SCB |   |  |                           |                   |                          |                  |                             |            |                   |            |  |                                    |  |
| COPPER CLASS B/C CONDUCTOR SIZE                              | COPPER CLASS GHKLM FLEX CONDUCTOR SIZE W/ LB, LNB, GLB, GLNB, SCB SERIES ONLY | COPPER CLASS DLO CONDUCTOR SIZE W/ LB, LNB, GLB, GLNB, SCB SERIES ONLY | MIN. # OF CRIMPS REQUIRED | COPPER COLOR CODE | NSI DIE                  | NSI/GREENLEE DIE | ILSCO DIE                   | BURNDY DIE | T&B DIE           | HUSKIE DIE | COPPER CLASS B/C EXPANDED WIRE RANGE WHEN INSTALLED WITH NSI N121D | MIN. # OF CRIMPS REQUIRED          |  |
| 8 AWG  | –   | –  | 1                         | RED               | –                        | KC12-8           | ILD-1, ILD-21               | U8CRT      | 15520             | –          | 8 AWG  | 1                                  |  |
| 6 AWG  | –   | –  | 1                         | BLUE              | CD2                      | KC12-6           | ILD-2, ILD-24               | U5CRT      | 15522             | HT41AT     | 6-8 AWG  | 1                                  |  |
| 4 AWG  | –   | –  | 1                         | GREY              | CD3                      | KC12-4           | ILD-3, ILD-29               | U4CRT      | 15527-CK          | HT41AU     | 4-6 AWG  | 1                                  |  |
| 3 AWG  | #4 FLEX   | –  | 1                         | WHITE             | –                        | KC12-3           | ILD-29                      | U3CRT      | –                 | HT41AV     | 3-6 AWG  | 1                                  |  |
| 2 AWG  | –   | –  | 1                         | BROWN             | CD4                      | KC12-2           | ILD-4, ILD-33               | U2CRT      | 15528             | HT41AW     | 2-6 AWG  | 1                                  |  |
| 1 AWG  | #2 FLEX   | –  | 1                         | GREEN             | CD5                      | KC12-1           | ILD-4, ILD-37               | U1CRT-1    | 15513-CK          | HT41AX     | 1-6 AWG  | 1                                  |  |
| 1/0 AWG  | #1 FLEX   | –  | 2                         | PINK              | CD6                      | KC12-1/0         | ILD-5, ILD-42               | U25RT      | 15508             | HT41AY     | 1/0-6 AWG  | 2                                  |  |
| 2/0 AWG  | 1/0 FLEX  | –  | 2                         | BLACK             | CD7                      | KC12-2/0         | ILD-6, ILD-45               | U26RT      | 15526             | HT41AZ     | 2/0-4 AWG  | 2                                  |  |
| 3/0 AWG  | 2/0 FLEX  | –  | 2                         | ORANGE            | CD10                     | KC12-3/0         | ILD-9, ILD-50               | U27RT      | 15530             | HT41BA     | 3/0-2 AWG  | 2                                  |  |
| 4/0 AWG  | 3/0 FLEX  | –  | 2                         | PURPLE            | CD12                     | KC12-4/0         | ILD-10, ILD-54              | U28RT      | 15511             | HT41BC     | 4/0-1 AWG  | 2                                  |  |
| 250 MCM  | 4/0 FLEX  | –  | 2                         | YELLOW            | CD14                     | KC12-250         | ILD-11, ILD-62              | U29RT      | 15510-CK          | HT41BE     | 250 MCM-1/0 AWG  | 2                                  |  |
| 300 MCM  | 250 FLEX  | –  | 2                         | WHITE             | CD15                     | KC12-300         | ILD-12, ILD-66              | U30RT      | 15534             | HT41BF     | 300 MCM-2/0 AWG  | 2                                  |  |
| 350 MCM  | 250 FLEX  | 262.2  | 2                         | RED               | CD16A                    | KC12-350         | ILD-13, ILD-71              | U31RT      | 15514-CK          | HT41BJ     | 350 MCM-3/0 AWG  | 2                                  |  |
| 400 MCM  | 300 FLEX  | 313.1  | 2                         | BLUE              | CD17                     | KC12-400         | ILD-14, ILD-76              | U32RT      | 15512             | HT41BK     | 400 MCM-4/0 AWG  | 2                                  |  |
| 500 MCM  | 350 FLEX  | 373.7  | 2                         | BROWN             | CD18                     | KC12-500         | ILD-15, ILD-87              | U34RT      | 15506             | HT41BL     | 500 MCM-250 MCM  | 2                                  |  |
| 600 MCM  | 400 FLEX  | 444.4  | 2                         | GREEN             | CD19                     | KC12-600         | ILD-16, ILD-94              | U36RT      | 15536-CK          | HT41BM     | 600 MCM-250 MCM  | 2                                  |  |
| 700 MCM  | 500 FLEX  | 535.3  | 2                         | PINK              | CD20                     | KC12-700         | ILD-16A, ILD-99             | U38RT      | 15505             | HT41BM     | 700 MCM-350 MCM  | 2                                  |  |
| 750 MCM  | 600 FLEX  | 646.6  | 2                         | BLACK             | CD21                     | KC12-750         | ILD-17, ILD-106             | U39RT      | 15515-CK          | HT41BP     | 750 MCM-500 MCM  | 2                                  |  |
| 1000 MCM   | 750 FLEX  | 777.7  | 2                         | YELLOW            | CD23                     | –                | ILD-18*, ILD-125            | P44RT      | 15603*            | HT61BU*    | 1000 - 750 MCM   | 2                                  |  |
| –  | –   | –  | –                         | LISTED TOOLS      | N1240<br>NSI-12<br>P-750 | HK1240           | ILC-12<br>ILC-12H<br>ILC-15 | Y-35       | TBM-15<br>TBM-14M | EP510C     | <b>N121D<br/>M-250<br/>M-500<br/>RDC-1/0</b>                       | N121D<br>M-250<br>M-500<br>RDC-1/0 |  |

\* REQUIRES 15 TON TOOL

# COMPRESSION CONNECTORS TOOL/DIE CHARTS

- Tool and Die Charts For Copper Connectors For Connector Series: CT, CTH

| COPPER COMPRESSION CONNECTOR TOOL AND DIE CHART |  |  |                           |                   |              |            |
|---|--|--|---------------------------|-------------------|--------------|------------|
| CONNECTOR SERIES: CT, CTH                       |  |  |                           |                   |              |            |
| COPPER CLASS B/C CONDUCTOR SIZE                 | MAIN / RUN WIRE RANGE  | TAP / BRANCH WIRE RANGE  | MIN. # OF CRIMPS REQUIRED | COPPER COLOR CODE | NSI DIE CODE | NSI TOOL   |
| CT-101  | 12 SOL-12 STR  | 14 SOL-12 STR  | 1                         | RED               | BARE 8       | M-250      |
| CT-102  | 10 STR<br>8 STR  | 10 STR<br>12 STR   | 1                         | LIGHT BLUE        | BARE 4       | RDC-1/0    |
| CT-103  | 6 STR<br>8 STR   | 10-12 STR<br>8-10 STR  | 1                         | GREY              | BARE 4       | RDC-1/0    |
| CT-104  | 4 STR<br>6 STR   | 8-12 STR<br>6-8 STR  | 1                         | BROWN             | BARE 2       | RDC-1/0    |
| CT-105  | 4 STR<br>4-5 STR   | 6-12 STR<br>6-5 STR  | 1                         | GREEN             | INS 2        | RDC-1/0    |
| CT-106  | 4 STR<br>4 STR   | 4 STR<br>4 STR   | 1                         | PINK              | INS 2        | RDC-1/0    |
| CT-107  | 1 STR<br>2 STR<br>4 STR  | 4 STR<br>4 STR<br>4 STR  | 1                         | BLACK             | BG           | OD-59      |
| CT-108  | 1/0 STR<br>1 STR<br>2 STR                                      | 4 STR<br>4 STR<br>2 STR  | 1                         | ORANGE            | KC12-2/0     | N1240      |
| CT-109  | 2/0 STR<br>1/0 STR<br>1/0 STR                                  | 4 STR<br>2 STR<br>1-2 STR  | 2                         | PURPLE            | KC12-4/0     | N1240      |
| CT-110  | 3/0 STR<br>2/0 STR<br>1/0 STR                                  | 4 STR<br>4 STR<br>4 STR  | 2                         | YELLOW            | KC12-250     | N1240      |
| CTH-111   | 1 STR<br>1/0 STR<br>2/0 STR<br>3/0-4/0 STR<br>4/0 STR          | 1 STR<br>1/0-2 STR<br>2/0-4 STR<br>1/0-6 STR<br>1.8 STR                      | 2                         | BLUE              | KC12-250     | N1240      |
| CTH-112   | 2/0 STR<br>3/0 STR<br>4/0 STR<br>250 STR                       | 2/0-1 STR<br>3/0-2 STR<br>4/0-4 STR<br>1/0-8 STR                             | 2                         | BROWN             | KC12-400     | N1240      |
| CTH-113   | 2/0 STR<br>3/0 STR<br>4/0 STR<br>250 STR<br>300 STR            | 2/0-1 STR<br>3/0-2 STR<br>4/0-4 STR<br>3/0-6 STR<br>2/0-8 STR                | 2                         | PINK              | KC12-400     | N1240      |
| CTH-114   | 4/0 STR<br>250 STR<br>300 STR<br>350 STR                       | 4/0-2/0 STR<br>250-1 STR<br>4/0-4 STR<br>3/0-6 STR                           | 2                         | BLACK             | KC12-500     | N1240      |
| CTH-115   | 250 STR<br>300 STR<br>350 STR<br>400 STR<br>450 STR<br>500 STR | 250 STR<br>300-3/0 STR<br>350-1/0 STR<br>300-2 STR<br>250-4 STR<br>250-6 STR | 2                         | YELLOW            | KC12-750     | N1240      |
| CTH-116   | 350 STR<br>400 STR<br>450 STR<br>500 STR                       | 350-4/0 STR<br>400-2/0 STR<br>450-1 STR<br>500-2 STR                         | 2                         | WHITE             | KC12-750     | N1240      |
| CTH-117   | 750-500 STR<br>750 STR   | 4/0-6 STR<br>750-4/0 STR   | 4                         | -                 | T&B 15603    | T&B TBM-15 |

# COMPRESSION CONNECTORS TOOL/DIE CHARTS

- Tool and Die Charts For Copper Connectors For Connector Series: CT, CTH

| COPPER COMPRESSION CONNECTOR TOOL AND DIE CHART |                       |                         |                           |                   |          |          |
|---|-----------------------|-------------------------|---------------------------|-------------------|----------|----------|
| CONNECTOR SERIES: CT, CTH                       |                       |                         |                           |                   |          |          |
| COPPER CLASS B/C CONDUCTOR SIZE                 | MAIN / RUN WIRE RANGE | TAP / BRANCH WIRE RANGE | MIN. # OF CRIMPS REQUIRED | COPPER COLOR CODE | NSI DIE  | NSI TOOL |
| CTH-46  | 4 STR                 | 6 STR                   | 1                         | –                 | KC12-1/0 | N1240    |
| CTH-44  | 6 STR<br>4 STR        | 4 STR<br>4 STR          | 1                         | –                 | KC12-1/0 | N1240    |
| CTH-24  | 2 SOL<br>2 STR        | 8 SOL<br>4 STR          | 1                         | –                 | C        | OD581    |
| CTH-22  | 2 SOL<br>2 STR        | 2 SOL<br>2 STR          | 1                         | –                 | C        | OD581    |
| CTH-2020  | 1/0 STR<br>2/0 STR    | 1/0 STR<br>2/0 STR      | 1                         | –                 | 0        | OD581    |
| CTH-4020  | 3/0 STR<br>4/0 STR    | 1/0 STR<br>2/0 STR      | 1                         | –                 | D3       | OD581    |
| CTH-4040  | 3/0 STR<br>4/0 STR    | 3/0 STR<br>4/0 STR      | 1                         | –                 | D3       | OD581    |



# COMPRESSION CONNECTORS TOOL/DIE CHARTS

## • Tool and Die Charts For Aluminum Connectors For Connector Series: AL, ALN, ASCT

CONNECTORS

| ALUMINUM COMPRESSION CONNECTOR TOOL AND DIE CHART |                           |                     |                          |                  |                             |            |                   |            | Dieless NSi N121D   |  |
|---|---------------------------|---------------------|--------------------------|------------------|-----------------------------|------------|-------------------|------------|---|--|
| CONNECTOR SERIES: AL, ALN, ASCT                   |                           |                     |                          |                  |                             |            |                   |            |   |  |
| ALUMINUM CLASS B/C CONDUCTOR SIZE                 | MIN. # OF CRIMPS REQUIRED | ALUMINUM COLOR CODE | NSI DIE                  | NSI/GREENLEE DIE | ILSCO DIE                   | BURNDY DIE | T&B DIE           | HUSKIE DIE | COPPER CLASS B/C<br>EXPANDED WIRE RANGE WHEN INSTALLED WITH NSI N121D | MIN. # OF CRIMPS REQUIRED                    |
| 8 AWG   | 1                         | BLUE                | CD2                      | KA12-8           | ILD-2                       | U8CABT     | 15522             | HT41GL     | 8 AWG   | 1  |
| 6 AWG   | 1                         | GREY                | CD3                      | KA12-6           | ILD-3                       | U6CABT     | 15527-CK          | HT41GE     | 6-8 AWG   | 1  |
| 4 AWG   | 1                         | GREEN               | CD5A                     | KA12-4           | ILD-4                       | U4CABT     | 15313-CK          | HT41GM     | 4-6 AWG   | 1  |
| 2 AWG   | 1                         | PINK                | CD6A                     | KA12-2           | ILD-7                       | U2CABT     | 15508             | HT41GF     | 2-6 AWG   | 1  |
| 1 AWG   | 1                         | YELLOW              | –                        | KA12-1           | ILD-7                       | U1CABT     | 15526             | –          | 1-6 AWG   | 1  |
| 1/0 AWG   | 2                         | TAN                 | CD9                      | KA12-1/0         | ILD-8                       | U25ART     | 15530             | HT41EX     | 1/0-6 AWG   | 2  |
| 2/0 AWG   | 2                         | OLIVE               | CD11                     | KA12-2/0         | ILD-10                      | U26ART     | 15511             | HT41EY     | 2/0-4 AWG   | 2  |
| 3/0 AWG   | 2                         | RUBY                | CD13                     | KA12-3/0         | ILD-10                      | U27ART     | 15532-CK          | HT41GW     | 3/0-2 AWG   | 2  |
| 4/0 AWG   | 2                         | WHITE               | CD15A                    | KA12-4/0         | ILD-12                      | U28ART     | 15534             | HT41EZ     | 4/0-1 AWG   | 2  |
| 250 MCM   | 2                         | RED                 | CD16A                    | KA12-250         | ILD-13                      | U29ART     | 15514-CK          | HT41FW     | 250 MCM-1/0 AWG   | 2  |
| 300 MCM   | 2                         | BLUE                | CD17A                    | KA12-300         | ILD-14                      | U30ART     | 15512             | HT41GZ     | 300 MCM-2/0 AWG   | 2  |
| 350 MCM   | 2                         | BROWN               | CD18A                    | KA12-350         | ILD-14                      | U31ART     | 15506             | HT41FA     | 350 MCM-3/0 AWG   | 2  |
| 400 MCM   | 2                         | GREEN               | CD19A                    | KA12-400         | ILD-16                      | U32ART     | 15536-CK          | HT41HH     | 400 MCM-4/0 AWG   | 2  |
| 500 MCM   | 2                         | PINK                | CD20                     | KA12-500         | ILD-16A                     | U34ART     | 15505             | HT41FB     | 500 MCM-250 MCM   | 2  |
| 600 MCM   | 2                         | BLACK               | CD21A                    | KA12-600         | ILD-17                      | U36ART     | –                 | HT41HG     | 600 MCM-250 MCM   | 2  |
| 750 MCM   | 2                         | RED                 | CD22                     | KA12-750         | ILD-18                      | U39ART-2   | 15504             | HT41LJ     | 750 MCM-500 MCM   | 2  |
| 1000 MCM  | 2                         | BROWN               | –                        | –                | ILD-P302*                   | P44ART*    | 15602             | –          | –   | 2  |
| –   | –                         | LISTED TOOLS        | N1240<br>NSI-12<br>P-750 | HK1240           | ILC-12<br>ILC-12H<br>ILC-15 | Y-35       | TBM-15<br>TBM-14M | EP510C     | <b>N121D<br/>M-250<br/>M-500<br/>RDC-1/0</b>                          | <b>N121D<br/>M-250<br/>M-500<br/>RDC-1/0</b> |

\* REQUIRES 15 TON TOOL

# COMPRESSION CONNECTORS TOOL/DIE CHARTS

## • Tool and Die Charts For Aluminum Connectors For Connector Series: PT, PTO, PTS

| ALUMINUM COMPRESSION CONNECTOR TOOL AND DIE CHART |                                   |   |  |          |                           |                   |                          |                  |                             |            |                   |            |
|---|-----------------------------------|---|--|----------|---------------------------|-------------------|--------------------------|------------------|-----------------------------|------------|-------------------|------------|
| CONNECTOR SERIES: PT, PTO, PTS                    |                                   |   |  |          |                           |                   |                          |                  |                             |            |                   |            |
| ALUMINUM CONDUCTOR ONLY PT SERIES                 | ALUMINUM CONDUCTOR ONLY PT SERIES | ALUMINUM OR COPPER CONDUCTOR PTS & PTO SERIES | ALUMINUM OR COPPER CLASS B/C CONDUCTOR SIZE PTS & PTO SERIES | PIN SIZE | MIN. # OF CRIMPS REQUIRED | COPPER COLOR CODE | NSI DIE                  | NSI/GREENLEE DIE | ILSCO DIE                   | BURNDY DIE | T&B DIE           | HUSKIE DIE |
| -   | -                                 | PTS6  | 6 AWG  | 4 AWG    | 1                         | TAN               | CD9                      | KA12-1/0         | ILD-8                       | U25ART     | 15530             | HT41EX     |
| PT6   | 6 AWG                             | -   | -  | 8 AWG    | 1                         | -                 | BG 52                    | -                | -                           | -          | -                 | -          |
| -   | -                                 | PTS4  | 4 AWG  | 4 AWG    | 1                         | TAN               | CD9                      | KA12-1/0         | ILD-8                       | U25ART     | 15530             | HT41EX     |
| PT4   | 4 AWG                             | -   | -  | 6 AWG    | 1                         | -                 | BG 52                    | -                | -                           | -          | -                 | -          |
| -   | -                                 | PTS2  | 2 AWG  | 4 AWG    | 1                         | TAN               | CD9                      | KA12-1/0         | ILD-8                       | U25ART     | 15530             | HT41EX     |
| PT2   | 2 AWG                             | -   | -  | 4 AWG    | 1                         | -                 | BG 52                    | -                | -                           | -          | -                 | -          |
| -   | -                                 | PTS1  | 1 AWG  | 3 AWG    | 1                         | TAN               | CD9                      | KA12-1/0         | ILD-8                       | U25ART     | 15530             | HT41EX     |
| PT1   | 1 AWG                             | -   | -  | 3 AWG    | 1                         | -                 | BG 52                    | -                | -                           | -          | -                 | -          |
| -   | -                                 | PTS1/0  | 1/0 AWG  | 2 AWG    | 2                         | TAN               | CD9                      | KA12-1/0         | ILD-8                       | U25ART     | 15530             | HT41EX     |
| PT1/0   | 1/0 AWG                           | -   | -  | 2 AWG    | 2                         | RED               | CD16A                    | KC12-350         | ILD-13, ILD-71              | U31RT      | 15514-CK          | HT41BJ     |
| -   | -                                 | PTS2/0<br>PTO2/0                              | 2/0 AWG  | 1 AWG    | 2                         | WHITE             | CD15A                    | KA12-4/0         | ILD-12                      | U28ART     | 15534             | HT41EZ     |
| PT2/0   | 2/0 AWG                           | -   | -  | 1 AWG    | 2                         | RED               | CD16A                    | KC12-350         | ILD-13, ILD-71              | U31RT      | 15514-CK          | HT41BJ     |
| -   | -                                 | PTS3/0<br>PTO3/0                              | 3/0 AWG  | 1/0 AWG  | 2                         | WHITE             | CD15A                    | KA12-4/0         | ILD-12                      | U28ART     | 15534             | HT41EZ     |
| PT3/0   | 3/0 AWG                           | -   | -  | 1/0 AWG  | 2                         | RED               | CD16A                    | KC12-350         | ILD-13, ILD-71              | U31RT      | 15514-CK          | HT41BJ     |
| -   | -                                 | PTS4/0<br>PTO4/0                              | 4/0 AWG  | 2/0 AWG  | 2                         | WHITE             | CD15A                    | KA12-4/0         | ILD-12                      | U28ART     | 15534             | HT41EZ     |
| PT4/0   | 4/0 AWG                           | -   | -  | 2/0 AWG  | 2                         | BROWN             | CD16A                    | KC12-350         | ILD-13, ILD-71              | U31RT      | 15514-CK          | HT41BJ     |
| -   | -                                 | PTS250<br>PTO250                              | 250 MCM  | 3/0 AWG  | 2                         | BROWN             | CD18A                    | KA12-350         | ILD-14                      | U31ART     | 15506             | HT41FA     |
| PT250   | 250 MCM                           | -   | -  | 3/0 AWG  | 2                         | BROWN             | CD18A                    | KA12-350         | ILD-14                      | U31ART     | 15506             | HT41FA     |
| -   | -                                 | PTS300<br>PTO300                              | 300 MCM  | 4/0 AWG  | 2                         | BROWN             | CD18A                    | KA12-350         | ILD-14                      | U31ART     | 15506             | HT41FA     |
| PT300   | 300 MCM                           | -   | -  | 4/0 AWG  | 2                         | BROWN             | CD18A                    | KA12-350         | ILD-14                      | U31ART     | 15506             | HT41FA     |
| -   | -                                 | PTS350<br>PTO350                              | 350 MCM  | 250 MCM  | 2                         | BROWN             | CD18A                    | KA12-350         | ILD-14                      | U31ART     | 15506             | HT41FA     |
| PT350   | 350 MCM                           | -   | -  | 4/0 AWG  | 2                         | BROWN             | CD18A                    | KA12-350         | ILD-14                      | U31ART     | 15506             | HT41FA     |
| -   | -                                 | PTS400<br>PTO400                              | 400 MCM  | 300 MCM  | 2                         | PINK              | CD20                     | KA12-500         | ILD-16A                     | U34ART     | 15505             | HT41FB     |
| PT400   | 400 MCM                           | -   | -  | 250 MCM  | 2                         | PINK              | CD20                     | KA12-500         | ILD-16A                     | U34ART     | 15505             | HT41FB     |
| -   | -                                 | PTS500<br>PTO500                              | 500 MCM  | 350 MCM  | 2                         | PINK              | CD20                     | KA12-500         | ILD-16A                     | U34ART     | 15505             | HT41FB     |
| PT500   | 500 MCM                           | -   | -  | 350 MCM  | 2                         | PINK              | CD20                     | KA12-500         | ILD-16A                     | U34ART     | 15505             | HT41FB     |
| -   | -                                 | PTS600<br>PTO600                              | 600 MCM  | 400 MCM  | 2                         | YELLOW            | CD23                     | -                | ILD-18*, ILD-125            | P44RT      | 15603*            | HT61BU*    |
| PT600   | 600 MCM                           | -   | -  | 350 MCM  | 2                         | YELLOW            | CD23                     | -                | ILD-18*, ILD-125            | P44RT      | 15603*            | HT61BU*    |
| -   | -                                 | PTS750<br>PTO750                              | 750 MCM  | 500 MCM  | 2                         | YELLOW            | CD23                     | -                | ILD-18*, ILD-125            | P44RT      | 15603*            | HT61BU*    |
| PT750   | 750 MCM                           | -   | -  | 500 MCM  | 2                         | YELLOW            | CD23                     | -                | ILD-18*, ILD-125            | P44RT      | 15603*            | HT61BU*    |
| -   | -                                 | -   | -  | -        | -                         | LISTED TOOLS      | N1240<br>NSI-12<br>P-750 | HK1240           | ILC-12<br>ILC-12H<br>ILC-15 | Y-35       | TBM-15<br>TBM-14M | EP510C     |

\* REQUIRES 15 TON TOOL



# COMPRESSION CONNECTORS TOOL/DIE CHARTS

• Tool and Die Charts For Aluminum Connectos For Connector Series: WRD (H-Taps)

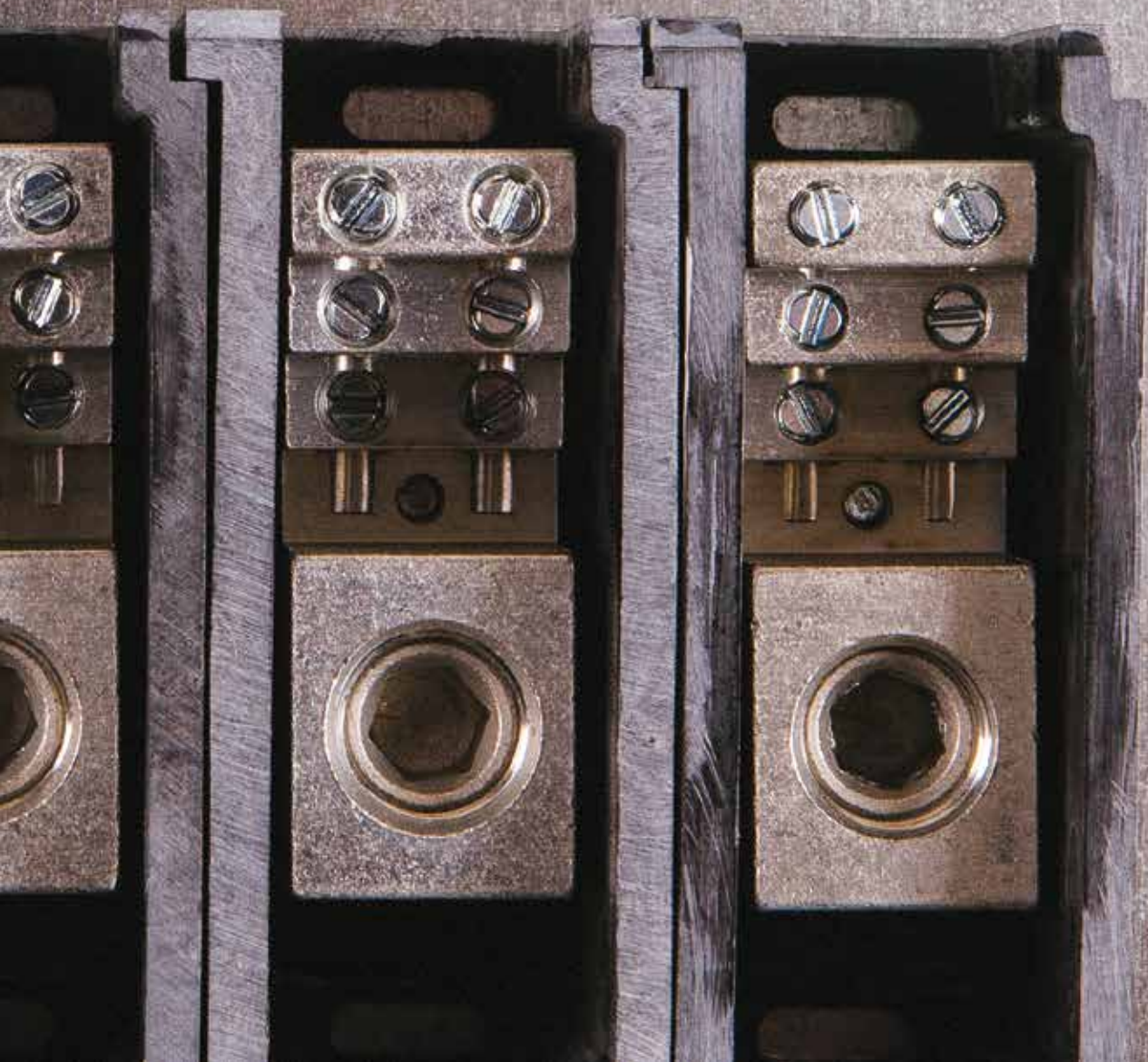
| ALUMINUM COMPRESSION CONNECTOR TOOL AND DIE CHART |        |                                    |                                   |
|---|--------|------------------------------------|-----------------------------------|
| CONNECTOR SERIES: WRD (H-Taps)                    |        |                                    |                                   |
| PART NUMBE  | DIE    | # OF INDENTS W/<br>MECHANICAL TOOL | # OF INDENTS W/<br>HYDRAULIC TOOL |
| WRD9  | 5/8 BG | 3                                  | –                                 |
| WRD 139   | 0      | 4                                  | 2                                 |
| WRD 149   | 0      | 5                                  | 2                                 |
| WRD 159   | 0      | 4                                  | 2                                 |
| WRD 179   | 0      | 5                                  | 2                                 |
| WRD 189   | 0      | 5                                  | 2                                 |
| WRD 199   | 0      | 5                                  | 2                                 |
| WRD 219   | D      | 5                                  | 2                                 |
| WRD 259   | D      | 5                                  | 2                                 |
| WRD 279   | D      | 5                                  | 2                                 |
| WRD 289   | D      | 5                                  | 2                                 |
| WRD 299   | D      | 4                                  | 2                                 |
| WRD 359   | D      | 4                                  | 2                                 |
| WRD 369   | D      | 5                                  | 2                                 |
| WRD 379   | D      | 5                                  | 2                                 |
| WRD 389   | D      | 6                                  | 2                                 |
| WRD 399   | D      | 7                                  | 3                                 |
| WRD 419   | D      | 7                                  | 3                                 |

| ABOVE DIES FOR USE WITH THESE TOOLS |
|-------------------------------------|
| OD58                                |
| OD581                               |
| OD59                                |





# CONNECTOR BLOKS™





# CONNECTOR BLOKS™

## Single Primary, Multiple Secondary

AS, AM, AL Series



### SPECIFICATIONS

- CSA.
- UL Recognize.

### FEATURES

- Each block can stand alone or combine with other blocks to form a multi-block set.
- Add as many holes as you need, in any configuration you want!
- There are no end pieces or connector pieces to fool around with.
- The connector body is made from high strength, high conductivity aluminum alloy and is mounted in a high strength glass-filled polyester base.
- Default SCCR Rating 10,000 Amps.
- Connector Blok™ covers are available in 3 sizes and fits all styles and configurations.



| CAT. NO.    | FIG. NO. | DRAWING                                | CONFIGURATION     |         | AMPS PER POLE | LENGTH (L) (IN.) | HEIGHT (W) (IN.) | WIDTH (H) (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|-------------|----------|--|-------------------|---------|---------------|------------------|------------------|-----------------|----------------|----------------|
|             |          |  | PRIMARY LINE SIDE | DRAWING |               |                  |                  |                 |                |                |
| AS-K1-H4    | 1        |  | 2/0-14 AWG        |         | 4-14 AWG      | 2.900            | 2.714            | 1.04            | 1              | 3              |
| AS-K1-H6    | 1        |  | 2/0-14 AWG        |         | 4-14 AWG      | 2.900            | 2.714            | 1.04            | 1              | 3              |
| AM-P1-H6    | 1        |  | 350MCM-6 AWG      |         | 4-14 AWG      | 4.000            | 2.620            | 1.710           | 1              | 3              |
| AM-P1-H12   | 1        |  | 350MCM-6 AWG      |         | 4-14 AWG      | 4.000            | 2.620            | 1.710           | 1              | 3              |
| AL-P1-K6    | 1        |  | 350MCM-6 AWG      |         | 2/0-14 AWG    | 5.500            | 3.250            | 2.900           | 1              | 3              |
| AM-R1-H12   | 1        |  | 500MCM-4 AWG      |         | 4-14 AWG      | 4.000            | 2.620            | 1.710           | 1              | 3              |
| AL-R1-K6    | 1        |  | 500MCM-4 AWG      |         | 2/0-14 AWG    | 5.500            | 3.250            | 2.900           | 1              | 3              |
| AL-R1-M4    | 1        |  | 500MCM-4 AWG      |         | 4/0-6 AWG     | 5.500            | 3.250            | 2.900           | 1              | 3              |
| AL-V1-K6    | 1        |  | 1000-250 MCM      |         | 2/0-14 AWG    | 5.500            | 3.250            | 2.900           | 1              | 3              |
| ACCESSORIES |          | CONNECTOR BLOK COVER                   |                   |         |               |                  |                  |                 |                | STD. CTN. QTY. |
| CS          | 2        | For use with connector Block AS Series |                   |         |               |                  |                  |                 |                | 12             |
| CM          | 2        | For use with connector Block AM Series |                   |         |               |                  |                  |                 |                | 9              |
| CL          | 2        | For use with connector Block AL Series |                   |         |               |                  |                  |                 |                | 6              |





# CONNECTOR BLOKS™

## Multiple Primary, Multiple Secondary

AS, AM, AL Series

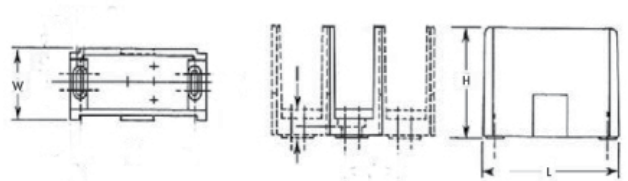


### SPECIFICATIONS

- CSA.
- UL Recognize.

### FEATURES

- Compact, versatile and durable.
- 90 °C and 600V.
- High-impact bases.
- One-piece connectors
- No assembly on job site.
- Default SCCR Rating 10,000 Amps.
- Connector Blok™ covers are available in 3 sizes and fits all styles and configurations.



CONNECTOR BLOKS™

| CAT. NO.           | FIG. NO. | CONFIGURATION                          |                   |         |                     | AMPS PER POLE | LENGTH (L) (IN.) | HEIGHT (W) (IN.) | WIDTH (H) (IN.) | STD. PKG. QTY.              | STD. CTN. QTY. |                       |
|--------------------|----------|--|-------------------|---------|---------------------|---------------|------------------|------------------|-----------------|-----------------------------|----------------|-----------------------|
|                    |          | DRAWING                                | PRIMARY LINE SIDE | DRAWING | SECONDARY LOAD SIDE |               |                  |                  |                 |                             |                |                       |
| AS-K2-H6           | 1        |  | 2/0-14 AWG        |         | 4-14 AWG            | 350           | 2.900            | 2.714            | 1.040           | 1                           | 3              |                       |
| AM-K2-H6           | 1        |  | 2/0-14 AWG        |         | 4-14 AWG            | 350           | 4.000            | 2.620            | 1.710           | 1                           | 3              |                       |
| AM-K2-H12          | 1        |  | 2/0-14 AWG        |         | 4-14 AWG            | 350           | 4.000            | 2.620            | 1.710           | 1                           | 3              |                       |
| AM-K2-I6           | 1        |  | 2/0-14 AWG        |         | 2-14 AWG            | 350           | 4.000            | 2.620            | 1.710           | 1                           | 3              |                       |
| AL-P2-H12          | 1        |  | 350 MCM-6 AWG     |         | 4-14 AWG            | 620           | 5.500            | 3.250            | 2.900           | 1                           | 3              |                       |
| AL-P2-K6           | 1        |  | 350 MCM-6 AWG     |         | 2/0-14 AWG          | 620           | 5.500            | 3.250            | 2.900           | 1                           | 3              |                       |
| AL-R2-H12          | 1        |  | 500 MCM-4 AWG     |         | 4-14 AWG            | 760           | 5.500            | 3.250            | 2.900           | 1                           | 3              |                       |
| AL-R2-K6           | 1        |  | 500 MCM-4 AWG     |         | 2/0-14 AWG          | 760           | 5.500            | 3.250            | 2.900           | 1                           | 3              |                       |
| AL-R2-M4           | 1        |  | 500 MCM-4 AWG     |         | 4/0-6 AWG           | 760           | 5.500            | 3.250            | 2.900           | 1                           | 3              |                       |
| <b>ACCESSORIES</b> |          |  |                   |         |                     |               |                  |                  |                 | <b>CONNECTOR BLOK COVER</b> |                | <b>STD. CTN. QTY.</b> |
| CS                 | 2        | For use with connector Block AS Series |                   |         |                     |               |                  |                  |                 |                             | 12             |                       |
| CM                 | 2        | For use with connector Block AM Series |                   |         |                     |               |                  |                  |                 |                             | 9              |                       |
| CL                 | 2        | For use with connector Block AL Series |                   |         |                     |               |                  |                  |                 |                             | 6              |                       |

# CONNECTOR BLOKS™

## Splicer Reducer, Primary Secondary

AS, AM, AL Series

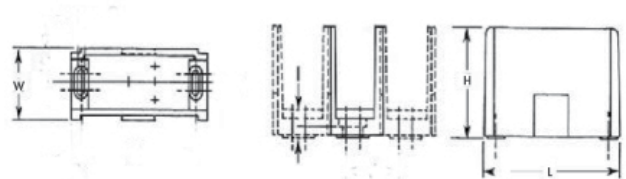


### SPECIFICATIONS

- CSA.
- UL Recognize.

### FEATURES

- Compact, versatile and durable.
- 90 °C and 600V.
- High-impact bases.
- One-piece connectors
- No assembly on job site.
- Default SCCR Rating 10,000 Amps.
- Connector Blok™ covers are available in 3 sizes and fits all styles and configurations.



| CAT. NO.    | FIG. NO. | CONFIGURATION                         |                   |         |                     | AMPS PER POLE | LENGTH (L) (IN.) | HEIGHT (W) (IN.) | WIDTH (H) (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|-------------|----------|---------------------------------------|-------------------|---------|---------------------|---------------|------------------|------------------|-----------------|----------------|----------------|
|             |          | DRAWING                               | PRIMARY LINE SIDE | DRAWING | SECONDARY LOAD SIDE |               |                  |                  |                 |                |                |
| AS-I1-I1    | 1        |                                       | 2-14 AWG          |         | 2-14 AWG            | 115           | 2.900            | 2.714            | 1.040           | 1              | 3              |
| AS-K1-K1    | 1        |                                       | 2/0-14 AWG        |         | 2/0-14 AWG          | 175           | 2.900            | 2.714            | 1.040           | 1              | 3              |
| AM-N1-N1    | 1        |                                       | 250MCM-6 AWG      |         | 250MCM-6 AWG        | 310           | 4.000            | 2.620            | 1.710           | 1              | 3              |
| AM-P1-P1    | 1        |                                       | 350MCM-6 AWG      |         | 350MCM-6 AWG        | 350           | 4.000            | 2.620            | 1.710           | 1              | 3              |
| AM-R1-R1    | 1        |                                       | 500MCM-4 AWG      |         | 500MCM-4 AWG        | 380           | 4.000            | 2.620            | 1.710           | 1              | 3              |
| AS-K2-K2    | 1        |                                       | 2/0-14 AWG        |         | 2/0-14 AWG          | 350           | 2.900            | 2.714            | 1.040           | 1              | 3              |
| AL-P2-P2    | 1        |                                       | 350MCM-6 AWG      |         | 350MCM-6 AWG        | 620           | 5.500            | 3.250            | 2.900           | 1              | 3              |
| AL-R2-R2    | 1        |                                       | 500MCM-4 AWG      |         | 500MCM-4 AWG        | 760           | 5.500            | 3.250            | 2.900           | 1              | 3              |
| ACCESSORIES |          | CONNECTOR BLOK COVER                  |                   |         |                     |               |                  |                  |                 |                | STD. CTN. QTY. |
| CS          | 2        | For use with connector Blok AS Series |                   |         |                     |               |                  |                  |                 |                | 12             |
| CM          | 2        | For use with connector Blok AM Series |                   |         |                     |               |                  |                  |                 |                | 9              |
| CL          | 2        | For use with connector Blok AL Series |                   |         |                     |               |                  |                  |                 |                | 6              |

# TERMINAL BLOKS™

## Double Row 9/16" Centers

TB Series

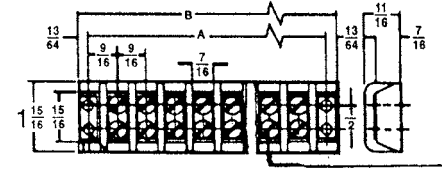


### SPECIFICATIONS

- Temperature Rating: 208 °C.
- Voltage: 30AMP, 600V Max.

### FEATURES

- Heavy duty construction with corrosion-resistant terminal plates ensures dependable, easy-access multiple terminations.
- Made from strong, glass-filled polyester.
- Screws are #8 stud size.
- Other sizes and styles available.
- Accommodates wire sizes 18-10 AWG.



| CAT. NO.  | DIMENSIONS |       | STD. CTN. QTY. |
|-----------|------------|-------|----------------|
|           | A          | B     |                |
| TB3096-2  | 1.688      | 2.109 | 10             |
| TB3096-4  | 2.812      | 3.250 | 10             |
| TB3096-6  | 3.938      | 4.375 | 6              |
| TB3096-8  | 5.062      | 5.500 | 4              |
| TB3096-10 | 6.203      | 6.625 | 4              |
| TB3096-12 | 7.328      | 7.750 | 3              |
| TB3096-14 | 8.453      | 8.875 | 3              |

# TERMINAL BLOKS™

## Insulated Terminal Bloks™

ITB Series

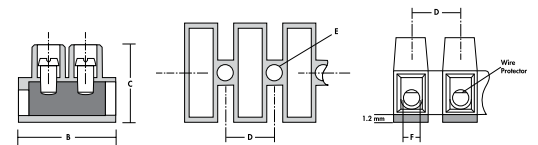


### SPECIFICATIONS

- Rated UL 94V-2.
- Temperature Rating: 110 °C.
- Voltage: 300V.

### FEATURES

- Nylon 66 housing ensures 'touchproof' safety.
- Recessed screws and tubular contacts provide additional safety and help prevent short circuits.
- Integrated stainless steel spring wire protectors prevent twisting and breaking of stranded wires during installation.
- Tubular contacts connect stripped solid or stranded un-terminated wire directly to each contact.
- Modular design allows for connector to be cut into smaller sections or stacked end-to-end.
- Brass metal alloy, nickel plated terminal insert.
- Zinc plated, yellow chromed screws.



| CAT. NO. | NO. OF CIRCUITS | RATINGS | AMPS | WIRE RANGE | DIMENSIONS |       |       |       |       |       | STD. CTN. QTY. |
|----------|-----------------|---------|------|------------|------------|-------|-------|-------|-------|-------|----------------|
|          |                 |         |      |            | A          | B     | C     | D     | E     | F     |                |
| ITB20-12 | 12              | RU      | 20   | 22-12      | 3.787      | 0.669 | 0.570 | 0.315 | 0.114 | 0.110 | 50             |
| ITB20-12 | 12              | CSA     | 10   | 20-18      | 3.787      | 0.669 | 0.570 | 0.315 | 0.114 | 0.110 | 50             |
| ITB30-12 | 12              | RU      | 30   | 22-10      | 4.626      | 0.795 | 0.670 | 0.394 | 0.142 | 0.134 | 50             |
| ITB30-12 | 12              | CSA     | 20   | 18-14      | 4.626      | 0.795 | 0.670 | 0.394 | 0.142 | 0.134 | 50             |
| ITB35-12 | 12              | CRU     | 35   | 22-10      | 5.540      | 0.937 | 0.748 | 0.472 | 0.154 | 0.154 | 40             |
| ITB50-12 | 12              | CRU     | 50   | 20-8       | 6.220      | 1.008 | 0.992 | 0.531 | 0.173 | 0.189 | 25             |

CONNECTOR BLOKS™



# TERMINAL BLOKS™

## Rail Mounted Modular

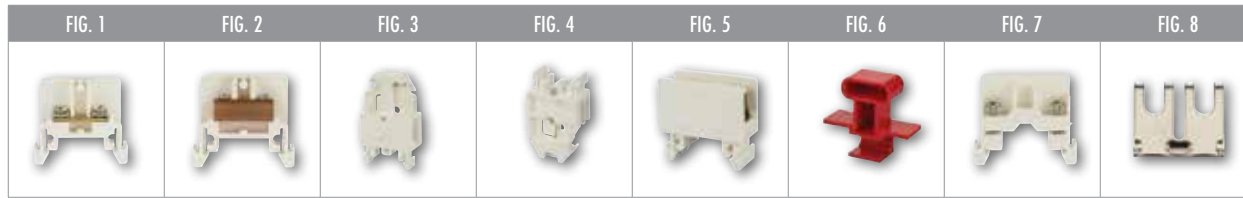
DRT, FTB, DRE, DRJ Series

### SPECIFICATIONS

- UL486A Listed, wire connector.
- Voltage: 30AMP, 600V Max.
- 35mm standard DIN rail.

### FEATURES

- Cost-effective solution to connecting and terminating a wide variety of sizes and styles of wiring.
- Individual blocks can easily be inserted or removed without disturbing adjacent blocks.
- Insertion is made by snapping the block in place by hand.
- Only a screwdriver is needed for removal.
- Mounting rail is fastened by screws to the mounting surface.
- No special brackets or hardware are needed.
- Component pieces may be mixed in an assembly.
- Blocks form their own barriers.
- Blocks include integral mounting feet with screw slot for direct panel mounting, if desired.



| CAT. NO.                      | FIG. NO. | DESCRIPTION   | STD. CTN. QTY. |
|-------------------------------|----------|---|----------------|
| <b>25 AMP TERMINAL BLOCK</b>  |          |   |                |
| DRTB25F                       | 1        | Will accept #22 to two #12 wires per terminal and include captive wire clamps for use with stranded or solid wire or ring terminals. Flat top marking with either pen or stick-on labels. Rated 25 Amps, 600 Volts.   | 50             |
| <b>50 AMP TERMINAL BLOCK</b>  |          |   |                |
| DRTB50                        | 2        | The DRTB50 block uses a box type connector to accept up to a #8 str. Requires only 3/8" per point, allowing 32 points per foot. Provides 3/8" square marking area. Rated 50 Amps, 600 Volts, 94V-0 Rated housing.   | 25             |
| <b>SINGLE POLE DISCONNECT</b> |          |   |                |
| DRDTB-1                       | 3        | The DRD Series of Disconnect Blocks may be used in a single-pole function or linked together with other disconnects to form multiple pole assemblies. Rated 15 Amps per pole. Accepts #22 to two #12 wires per terminal.  | 10             |
| <b>2 POLE DISCONNECT</b>      |          |   |                |
| DRDTB-2                       | 4        | Two single-pole disconnects with an interlocked handle so that operation on any pole operates all poles. This unique assembly makes it possible to interlock the isolation of different control panel functions without using expensive relays or cam switches. | 6              |
| <b>DRFTB FUSE BLOCK</b>       |          |   |                |
| DRFTB                         | 5        | The DRFTB Fuse Block accepts 13/32" dia. by 1 1/2" long cartridge fuses through 25 Amps, 600 Volts. The fusible block requires 3/4" rail taking exactly two standard terminal blocks.   | 10             |
| <b>FUSE PULLER</b>            |          |   |                |
| FTBFP                         | 6        | The FTBFP is supplied red as standard.  | 25             |
| <b>END BARRIER</b>            |          |   |                |
| DREB                          | 7        | Each assembly of blocks requires only an end barrier on each end of the assembly. It acts as both the end barrier for the block and retains the blocks on the rail.   | 50             |
| <b>JUMPER</b>                 |          |   |                |
| DRJS2                         | 8        | Jumper strap from one point to another on 25 Amp terminal block.  | 100            |





# TERMINAL BLOKS™

## Hardware Options

FQC, DR Series

### SPECIFICATIONS

#### FQC Series

- Voltage: 30AMP, 600V Max.

#### DR Series

- CSA.
- UL Recognize.

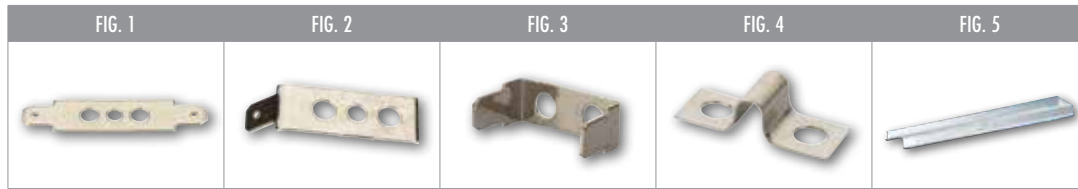
### FEATURES

#### FQC Series

- Nickel plated.
- 0.250 x 0.30 tab size.
- 22-14AWG wire size.

#### DR Series

- Made from 35mm unplated 6061-T6 Aluminum alloy providing for a strong, lightweight rail for mounting sockets, terminal blocks or other electro-mechanical devices.
- Comes supplied with oval holes 1.1 cm, approximately x 0.4 cm apart.
- Standard 10mm height allows for ease of installation vs. traditional 7.5mm height.



| CAT. NO. | FIG. NO. | DESCRIPTION  | HEIGHT | LENGTH | STD. CTN. QTY. |
|----------|----------|--|--------|--------|----------------|
| FQC-00   | 1        | Quick Disconnect – 0° Flat   | –      | –      | 10             |
| FQC-45   | 2        | Quick Disconnect – 45° Bend  | –      | –      | 10             |
| FQC-90   | 3        | Quick Disconnect – 90° Bend  | –      | –      | 10             |
| J-30     | 4        | 30 AMP Jumper  | –      | –      | 10             |
| DR3910   | 5        | For Mounting Sockets, Terminal Blocks, Or Other Electro-Mechanical Devices | 10 mm  | 39.3"  | 10             |

# TERMINAL BLOKS™

## Splicer/Reducers 75 Amps, 600V

TBS Series



### SPECIFICATIONS

- Temperature Rating: 150 °C.
- Voltage: 75AMP, 600V Max.

### FEATURES

- Terminal Bloks™ power terminal blocks are made from high conductivity bodies and will accept either copper or aluminum conductors on the line side.
- The bases are manufactured from high strength phenolic compound.
- 2-14 AWG.

| CAT. NO. | NO. OF POLES | WIRE RANGE        | LENGTH | HEIGHT | WIDTH | STD. CTN. QTY. |
|----------|--------------|-------------------|--------|--------|-------|----------------|
| TBS2-2   | 2            | 2-14 AWG CU or AL | 1.750  | 1.250  | 1.500 | 6              |
| TBS2-3   | 3            | 2-14 AWG CU or AL | 2.380  | 1.250  | 1.500 | 6              |

CONNECTOR BLOKS™



**EASY-TWIST™**



# EASY-TWIST™

## Wire Connectors

### Standard Twist-On

#### WC Series



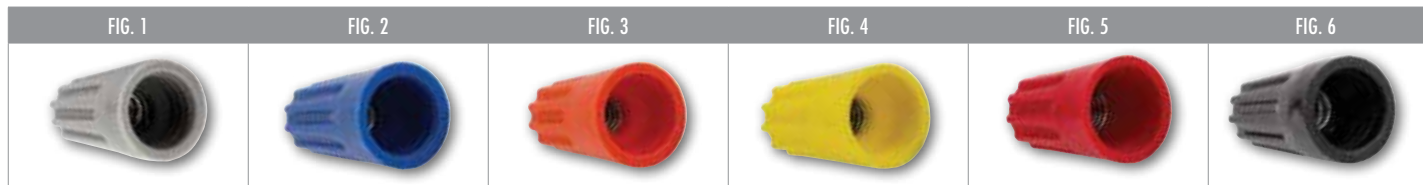
#### SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- **Temperature Rating:** 105 °C (221 °F), 150 °C (302 °F) High Temp.
- **Voltage:** 1,000V max. in fixtures and signs.
- **Wire Type:** For Copper wire only.

**For Illustrations and drawings see page 136.**

#### FEATURES

- Flame retardant UL 94V-2 thermoplastic shell provides excellent electrical insulation.
- Fixed, precise square wire spring provides secure gripping of conductors.
- Deep skirt entry provides protection from flashover and shorts.
- Sure-grip ribs improve gripping comfort.
- Compact design ensures proper installation, especially in tight spaces.
- Threaded funnel entry guides the wires into the connector easily.
- Pre-twisting of wires is not necessary.
- Zinc-plated springs for low contact resistance.
- **Installation:** Socket installation tools are included in each bag of Easy-Twist™ Connectors (Cat. No. with "B" suffix). Made to fit any pneumatic or electrical tool with a 1/4" chuck or drive socket.



| COLOR/TYPE       | FIG. NO. | WIRE RANGE | MAX VOLTAGE | WIRE RANGE                  |                                       | MAX. SPRING WIDTH (A) | MAX. SKIRT ENTRY (B) | MAX. WIDTH (C) | MAX. SKIRT DEPTH (D) | LENGTH/HEIGHT (E) |
|------------------|----------|------------|-------------|-----------------------------|---------------------------------------|-----------------------|----------------------|----------------|----------------------|-------------------|
|                  |          |            |             | MIN.                        | MAX.                                  |                       |                      |                |                      |                   |
| Grey (WC)        | 1        | 22-14 AWG  | 300V        | 2 #22 AWG                   | 1 #16 with<br>1 #18 with<br>1 #20 AWG | 0.150                 | 0.256                | 0.339          | 0.217                | 0.598             |
| Blue (WC)        | 2        | 22-14 AWG  | 300V        | 2 #22 AWG                   | 3 #16 AWG                             | 0.161                 | 0.280                | 0.390          | 0.217                | 0.697             |
| Orange (WC)      | 3        | 22-14 AWG  | 600V        | 1 #18 with<br>1 #20 AWG     | 4 #16 with<br>1 #20 AWG               | 0.197                 | 0.382                | 0.500          | 0.268                | 0.866             |
| Yellow (WC)      | 4        | 22-10 AWG  | 600V        | 3 #20 AWG                   | 2 #12 with<br>2 #14 AWG               | 0.236                 | 0.433                | 0.551          | 0.268                | 0.969             |
| Red (WC)         | 5        | 22-10 AWG  | 600V        | 3 #18 AWG                   | 2 #10 SOL with<br>2 #12 STR           | 0.339                 | 0.516                | 0.642          | 0.406                | 1.043             |
| High Temp 1 (WC) | 6        | 22-18 AWG  | 300V        | 1 #18 STR with<br>1 #22 STR | 2 #18 STR                             | 0.150                 | 0.256                | 0.339          | 0.228                | 0.598             |
| High Temp 3 (WC) | 6        | 22-14 AWG  | 600V        | 1 #16 with<br>1 #22         | 1 #14 with<br>1 #16 with<br>1 #18     | 0.197                 | 0.382                | 0.500          | 0.307                | 0.866             |



Scan QR code  
for mobile access  
to wire combinations.

# EASY-TWIST™

## Wire Connectors

### Standard Twist-On

#### WC Series



#### SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- **Temperature Rating:** 105 °C (221 °F), 150 °C (302 °F) High Temp.
- **Voltage:** 1,000V max. in fixtures and signs.
- **Wire Type:** For Copper wire only.
- **Example: (100) (10x100) = 100 in standard package, 1000 in standard carton.**

#### FEATURES

- Flame retardant UL 94V-2 thermoplastic shell provides excellent electrical insulation.
- Fixed, precise square wire spring provides secure gripping of conductors.
- Deep skirt entry provides protection from flashback and shorts.
- Sure-grip ribs improve gripping comfort.
- Compact design ensures proper installation, especially in tight spaces.
- Threaded funnel entry guides the wires into the connector easily.
- Pre-twisting of wires is not necessary.
- Zinc-plated springs for low contact resistance.
- **Installation:** Socket installation tools are included in each bag of Easy-Twist™ Connectors (Cat. No. with "B" suffix).  
Made to fit any pneumatic or electrical tool with a 1/4" chuck or drive socket.



EASY-TWIST™



| COLOR/TYPE       | CARTON                   | SMALL JAR                 | LARGE JAR   | LARGE BAG                    | BULK              | DRUM              |
|------------------|--------------------------|---------------------------|---|------------------------------|-------------------|-------------------|
| Grey (WC)        | WC-G-C<br>(100) (10x100) | WC-G-SJ<br>(300) (50x300) | —   | WC-G-B<br>(1000) (26x1000)   | WC-G<br>(25000)   | —                 |
| Blue (WC)        | WC-B-C<br>(100) (10x100) | WC-B-SJ<br>(300) (50x300) | —   | WC-B-B<br>(1000) (18x1000)   | WC-B<br>(10000)   | —                 |
| Orange (WC)      | WC-O-C<br>(100) (10x100) | WC-O-CJ<br>(100) (50x100) | WC-O-J<br>(700) (12x700)<br>WC-O-SJ<br>(300) (12x300) | WC-O-B<br>(500) (16x500)     | WC-O<br>(10000)   | WC-O-D<br>(50000) |
| Yellow (WC)      | WC-Y-C<br>(100) (10x100) | WC-Y-CJ<br>(100) (50x100) | WC-Y-J<br>(500) (12x500)<br>WC-Y-SJ<br>(200) (12x200) | WC-Y-B<br>(500) (12x500)     | WC-Y<br>(10000)   | WC-Y-D<br>(35000) |
| Red (WC)         | WC-R-C<br>(100) (10x100) | WC-R-SJ<br>(100) (20x100) | WC-R-J<br>(350) (12x350)                              | WC-R-B<br>(500) (8x500)      | WC-R<br>(5000)    | WC-R-D<br>(25000) |
| High Temp 1 (WC) | —                        | —                         | —   | WC-HB1-B<br>(1000) (26x1000) | WC-HB1<br>(10000) | —                 |
| High Temp 3 (WC) | —                        | —                         | —   | WC-HB3-B<br>(500) (16x500)   | WC-HB3<br>(10000) | —                 |

Scan QR code  
for mobile access  
to wire combinations.



# EASY-TWIST™

## Wire Connectors

### Winged Twist-On

### WWC Series



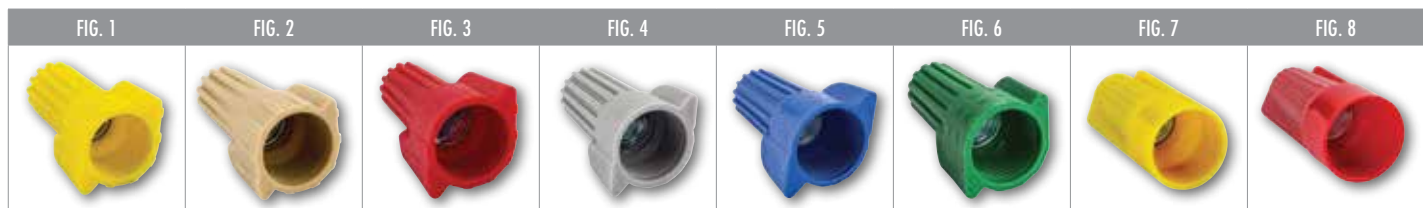
#### SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- WWC-GR is UL 467 Listed Grounding and Bonding.
- Temperature Rating: 105 °C (221 °F).
- Voltage: 600V max., 1,000V max. in fixtures and signs.
- Wire Type: For Copper wire only.

**For Illustrations and drawings see page 136.**

#### FEATURES

- Ergonomic, swept-back wing design provides handling comfort and increased torque ability.
- Flame retardant UL 94V-2 thermoplastic shell provides excellent electrical insulation.
- Fixed, precise square wire spring provides secure gripping of conductors.
- Deep skirt entry provides protection from flashover and shorts.
- Compact design ensures proper installation, especially in tight spaces.
- Threaded funnel entry guides the wires into the connector easily.
- Pre-twisting of wires is not necessary.
- Zinc-plated springs for low contact resistance.
- **Installation:** Socket installation tools are included in each bag of Easy-Twist™ Connectors (Cat.No. with "B" suffix). Made to fit any pneumatic or electrical tool with a 1/4" chuck or drive socket.



| COLOR/TYPE      | FIG. NO. | WIRE RANGE  | MAX VOLTAGE | WIRE RANGE           |                     | MAX. SPRING WIDTH (A) | MAX. SKIRT ENTRY (B) | MAX. WIDTH (C) | MAX. SKIRT DEPTH (D) | LENGTH/HEIGHT (E) |
|-----------------|----------|-------------|-------------|----------------------|---------------------|-----------------------|----------------------|----------------|----------------------|-------------------|
|                 |          |             |             | MIN.                 | MAX.                |                       |                      |                |                      |                   |
| Yellow (WWC)    | 1        | 18 - 10 AWG | 600V        | 3 #18 AWG            | 2 #12 with 1#14 AWG | 0.252                 | 0.386                | 0.717          | 0.354                | 1.016             |
| Tan (WWC)       | 2        | 22-8 AWG    | 600V        | 3 #22 AWG            | 4 #12 AWG           | 0.283                 | 0.457                | 0.720          | 0.362                | 1.142             |
| Red (WWC)       | 3        | 18-8 AWG    | 600V        | 3 #16 AWG            | 5 #12 AWG           | 0.354                 | 0.512                | 0.906          | 0.378                | 1.252             |
| Grey (WWC)      | 4        | 18 - 8 AWG  | 600V        | 3 #14 with 1 #18 AWG | 3 #10 AWG           | 0.394                 | 0.587                | 1.004          | 0.394                | 1.311             |
| Blue (WWC)      | 5        | 14 - 6 AWG  | 600V        | 2 #10 with 1 #12 AWG | 3 #8 with 1 #12 AWG | 0.472                 | 0.701                | 1.260          | 0.512                | 1.575             |
| Green GND (WWC) | 6        | 14-10 AWG   | 600V        | 2 #14                | 5 #12               | 0.327                 | 0.476                | 0.795          | 0.370                | 1.134             |
| Yellow N1 (WWC) | 7        | 22 - 10 AWG | 600V        | 4 #22 AWG            | 3 #12 AWG           | 0.287                 | 0.429                | 0.492          | 0.417                | 0.992             |
| Red N2 (WWC)    | 8        | 22 - 6 AWG  | 600V        | 3 #20 AWG            | 1 #8 with 3#12 AWG  | 0.358                 | 0.520                | 0.583          | 0.453                | 1.161             |



Scan QR code for mobile access to wire combinations.



# EASY-TWIST™

## Wire Connectors

### Winged Twist-On

#### WWC Series



#### SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- WWC-GR is UL 467 Listed Grounding and Bonding.
- Temperature Rating: 105 °C (221 °F).
- Voltage: 600V max., 1,000V max. in fixtures and signs.
- Wire Type: For Copper wire only.
- **Example: (100) (10x100) = 100 in standard package, 1000 in standard carton.**

#### FEATURES

- Deep surface ridges provide better grip.
- Ergonomic, swept-back wing design provides handling comfort and increased torque ability.
- Flame retardant UL 94V-2 thermoplastic shell provides excellent electrical insulation.
- Fixed, precise square wire spring provides secure gripping of conductors.
- Deep skirt entry provides protection from flashover and shorts.
- Compact design ensures proper installation, especially in tight spaces.
- Threaded funnel entry guides the wires into the connector easily.
- Pre-twisting of wires is not necessary.
- Zinc-plated springs for low contact resistance.
- **Installation:** Socket installation tools are included in each bag of Easy-Twist™ Connectors (Cat.No. with "B" suffix). Made to fit any pneumatic or electrical tool with a 1/4" chuck or drive socket.



EASY-TWIST™



| COLOR/TYPE      | CARTON                     | SMALL JAR  | LARGE JAR                  | LARGE BAG                  | BUCKET               | BULK              | DRUM                |
|-----------------|----------------------------|--|----------------------------|----------------------------|----------------------|-------------------|---------------------|
| Yellow (WWC)    | WWC-Y-C<br>(100) (10x100)  | WWC-Y-CJ<br>(100) (50x100)                               | WWC-Y-J<br>(550) (12x550)  | WWC-Y-B<br>(500) (13x500)  | WWC-Y-BT<br>(3,000)  | WWC-Y<br>(5000)   | WWC-Y-D<br>(35000)  |
| Tan (WWC)       | WWC-T-C<br>(100) (10x100)  | WWC-T-CJ<br>(100) (50x100)<br>WWC-T-SJ<br>(100) (50x100) | WWC-T-J<br>(450) (12x450)  | WWC-T-B<br>(500) (12x500)  | WWC-T-BT<br>(3,000)  | WWC-T<br>(5000)   | WWC-T-D<br>(30000)  |
| Red (WWC)       | WWC-R-C<br>(100) (10x100)  | WWC-R-SJ<br>(100) (20x100)                               | WWC-R-J<br>(300) (12x300)  | WWC-R-B<br>(500) (7x500)   | WWC-R-BT<br>(3,000)  | WWC-R<br>(5000)   | WWC-R-D<br>(20000)  |
| Grey (WWC)      | WWC-G-C<br>(50) (10x50)    | WWC-G-SJ<br>(50) (32x50)                                 | —                          | WWC-G-B<br>(250) (11x250)  | —                    | WWC-G<br>(5000)   | WWC-G-D<br>(20000)  |
| Blue (WWC)      | WWC-B-C<br>(50) (10x50)    | WWC-B-SJ<br>(50) (20x50)                                 | WWC-B-J<br>(125) (12x125)  | WWC-B-B<br>(100) (16x100)  | —                    | WWC-B<br>(2500)   | WWC-B-D<br>(9500)   |
| Green GND (WWC) | WWC-GR-C<br>(100) (10x100) | WWC-GR-SJ<br>(100) (20x100)                              | WWC-GR-J<br>(300) (12x350) | WWC-GR-B<br>(500) (9x500)  | WWC-GR-BT<br>(3,000) | WWC-GR<br>(5500)  | WWC-GR-D<br>(25000) |
| Yellow N1 (WWC) | WWC-N1-C<br>(100) (10x100) | WWC-N1-CJ<br>(100) (50x100)                              | —                          | WWC-N1-B<br>(500) (13x500) | —                    | WWC-N1<br>(10000) | —                   |
| Red N2 (WWC)    | WWC-N2-C<br>(100) (10x100) | —  | —                          | WWC-N2-B<br>(500) (9x500)  | —                    | WWC-N2<br>(10000) | —                   |

Scan QR code  
for mobile access  
to wire combinations.





# EASY-TWIST™

## Wire Connectors

### Combination Pails

#### ET-CP Series



#### SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- **Temperature Rating:** 105 °C (221 °F).
- **Voltage:** 1,000V max. in fixtures and signs.
- **Wire Type:** For Copper wire only.

#### FEATURES

- Compact, easy to carry pail, also convenient for use on maintenance cart.
- 4-pack pail includes the most common Easy-twist™ connectors.



Scan QR code for mobile access to wire combinations.

| CAT. NO. | FIG. NO. | PAIL CONTENTS | COLOR     | WIRE RANGE | QTY. PER PAIL | STD. CTN. QTY. |
|----------|----------|---------------|-----------|------------|---------------|----------------|
| ET-CP-1  | 1        | WWC-T         | Tan       | 22-8 AWG   | 70            | 12             |
|          |          | WWC-Y         | Yellow    | 18-10 AWG  | 80            | 12             |
|          |          | WWC-R         | Red       | 18-8 AWG   | 45            | 12             |
|          |          | WWC-B         | Blue      | 14-6 AWG   | 20            | 12             |
| ET-CP-2  |          | WC-O          | Orange    | 22-14 AWG  | 100           | 12             |
|          |          | WC-Y          | Yellow    | 22-10 AWG  | 75            | 12             |
|          |          | WC-R          | Red       | 22-10 AWG  | 50            | 12             |
|          |          | WWC-T         | Tan       | 22-8 AWG   | 70            | 12             |
| ET-CP-3  |          | WC-O          | Orange    | 22-14 AWG  | 100           | 12             |
|          |          | WWC-T         | Tan       | 22-8 AWG   | 70            | 12             |
|          |          | WWC-Y         | Yellow    | 18-10 AWG  | 80            | 12             |
| ET-CP-11 |          | WWC-R         | Red       | 18-8 AWG   | 45            | 12             |
|          |          | WWC-T         | Tan       | 22-8 AWG   | 40            | 16             |
|          |          | WWC-Y         | Yellow    | 18-10 AWG  | 50            | 16             |
|          |          | WWC-R         | Red       | 18-8 AWG   | 30            | 16             |
| ET-CP-12 |          | WWC-B         | Blue      | 14-6 AWG   | 10            | 16             |
|          | WC-O     | Orange        | 22-14 AWG | 65         | 16            |                |
|          | WC-Y     | Yellow        | 22-10 AWG | 45         | 16            |                |
|          | WC-R     | Red           | 22-10 AWG | 30         | 16            |                |
| ET-CP-13 | WWC-T    | Tan           | 22-8 AWG  | 40         | 16            |                |
|          | WC-O     | Orange        | 22-14 AWG | 60         | 16            |                |
|          | WWC-T    | Tan           | 22-8 AWG  | 45         | 16            |                |
|          | WWC-Y    | Yellow        | 18-10 AWG | 50         | 16            |                |
| ET-CP-14 | WWC-R    | Red           | 18-8 AWG  | 30         | 16            |                |
|          | WC-O     | Orange        | 22-14 AWG | 65         | 16            |                |
|          | WC-Y     | Yellow        | 22-10 AWG | 45         | 16            |                |
|          | WC-R     | Red           | 22-10 AWG | 30         | 16            |                |
| ET-CP-15 | WC-B     | Blue          | 22-14 AWG | 100        | 16            |                |
|          | WC-G     | Gray          | 22-14 AWG | 120        | 16            |                |
|          | WC-B     | Blue          | 22-14 AWG | 100        | 16            |                |
|          | WC-O     | Orange        | 22-14 AWG | 65         | 16            |                |
|          |          | WC-Y          | Yellow    | 22-10 AWG  | 45            | 16             |

# EASY-TWIST™

## Wire Connectors

### Push-In

### PIWC Series



#### SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- Temperature Rating: -40 °F to 221 °F (-30 °C to 105 °C).
- Voltage: 600V max., 1,000V max. in fixtures and signs.
- Example: (100) (10x100) = 100 in standard package, 1000 in standard carton.

For Illustrations and drawings see page 136.

#### FEATURES

- Fast, safe and reliable installation saves time and money.
- No twisting or taping of conductors required.
- Just strip the wire, insert the connector and you are done.
- One wire per opening ensures loose connections are eliminated.
- Made of strong, UL 94V-2 flame retardant polycarbonate.
- Integrated test port enables continuity testing.
- Color coded for easy identification.
- Compact design perfect for tight spaces.
- Copper, tin-plated; stainless steel spring; steel frame, zinc-plated.
- For use with 22-12 AWG solid or stranded wire.



Scan QR code for mobile access to wire combinations.



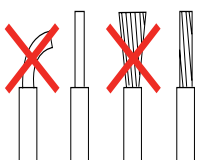
EASY-TWIST™



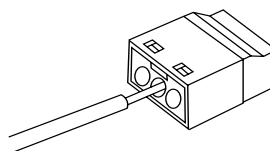
| COLOR/TYPE    | FIG. NO. | NO. OF PORTS | WIRE RANGE | MAX VOLTAGE | WIRE RANGE |           | DEPTH (A) | WIDTH (B) | FRONT HEIGHT (C) | REAR HEIGHT (D) | CASE THICKNESS (E) | FIG. 7 CARTON            | FIG. 8 BAG              |
|---------------|----------|--------------|------------|-------------|------------|-----------|-----------|-----------|------------------|-----------------|--------------------|--------------------------|-------------------------|
|               |          |              |            |             | MIN.       | MAX.      |           |           |                  |                 |                    |                          |                         |
| Yellow (PIWC) | 1        | 2            | 22-12 AWG  | 600V        | 2 #22 AWG  | 2 #12 AWG | 0.748     | 0.463     | 0.411            | 0.343           | 0.035              | PIWC -2-C (100) (10x100) | PIWC-2-B (500) (14x500) |
| Orange (PIWC) | 2        | 3            | 22-12 AWG  | 600V        | 2 #22 AWG  | 3 #12 AWG | 0.748     | 0.626     | 0.411            | 0.343           | 0.035              | PIWC -3-C (100) (10x100) | PIWC-3-B (500) (11x500) |
| Clear (PIWC)  | 3        | 4            | 22-12 AWG  | 600V        | 2 #22 AWG  | 4 #12 AWG | 0.748     | 0.789     | 0.411            | 0.343           | 0.035              | PIWC -4-C (75) (10x75)   | PIWC-4-B (400) (11x400) |
| Blue (PIWC)   | 4        | 5            | 22-12 AWG  | 600V        | 2 #22 AWG  | 5 #12 AWG | 0.748     | 0.953     | 0.411            | 0.343           | 0.035              | PIWC -5-C (50) (10x50)   | PIWC-5-B (300) (12x300) |
| Purple (PIWC) | 5        | 6            | 22-12 AWG  | 600V        | 2 #22 AWG  | 6 #12 AWG | 0.748     | 1.116     | 0.411            | 0.343           | 0.035              | PIWC -6-C (50) (10x50)   | PIWC-6-B (250) (12x250) |
| Grey (PIWC)   | 6        | 8            | 22-12 AWG  | 600V        | 2 #22 AWG  | 8 #12 AWG | 0.748     | 1.443     | 0.411            | 0.343           | 0.035              | PIWC -8-C (40) (10x40)   | PIWC-8-B (200) (12x200) |

#### INSTALLATION

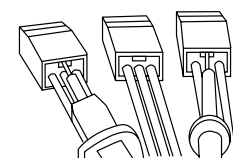
1. Turn off power. Strip wire approximately 0.45 inches (11 mm).



2. Push the stripped conductor into the port of connector fully. No twisting or taping.



3. Use a voltage meter to test your connection via the port on connector.



# EASY-TWIST™

## Wire Connectors

### Crimp Sleeve & Nylon Wire Connectors

SB, TOP, C-N Series



#### SPECIFICATIONS

- UL 486C Listed wire connector E155027.
- Part # SB is UL Listed.
- Part # C-N and C-N-B are UL Listed and CSA.
- **Temperature Rating:**
- C-N Series 105 °C (221 °F). TOP Series 93.3333 °C (200 °F).
- **Example: (100) (10x100) = 100 in standard package, 1000 in standard carton.**

#### FEATURES

- **Copper Crimp Sleeves:** Bullet is designed for easy installation and provide an exceptional connection.
- **Closed End Connectors:** Made from nylon 6/6 (Polyimide 66).
- **Steel Crimp Sleeves:** Economical, brass-plated steel provides an excellent low resistance connection.
- UL 94V-2 self extinguishing, closed end style.
- **Ceramics:** Made of high quality ceramics.
- Have excellent electrical and heat resistant properties.
- Maximum working temperature of 1,000 °F. For applications above 200 °F.
- Uses include appliances, high powered lighting fixtures, ceiling fans, heaters, plastic extrusion/injection molding barrels and similar high temperature applications.

**For Illustrations and drawings see page 136.**



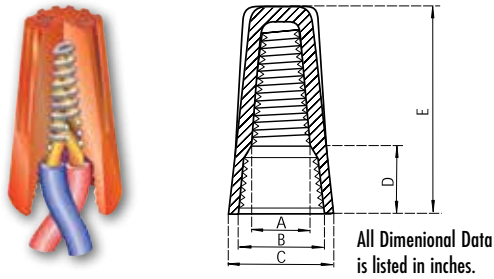
| CAT. NO. | FIG. NO. | COLOR/TYPE          | WIRE RANGE | MAX VOLTAGE | I.D. (A) | MAX. SKIRT ENTRY (B) | MAX. WIDTH (C) | MAX. SKIRT DEPTH (D) | LENGTH/HEIGHT (E) | BLISTER PACK              | CARTON                     | BAG                           |
|----------|----------|---------------------|------------|-------------|----------|----------------------|----------------|----------------------|-------------------|---------------------------|----------------------------|-------------------------------|
| SB1810   | 1        | Copper Crimp Sleeve | 18-10 AWG  | —           | 0.204    | 0.295                | 0.240          | n/a                  | 0.374             | SB1810<br>(100) (10x100)  | —                          | SB1810-B<br>(1000) (10x1000)  |
| SB1808   | 2        | Copper Crimp Sleeve | 18-8 AWG   | —           | 0.263    | 0.364                | 0.307          | n/a                  | 0.610             | SB1808<br>(50) (10x50)    | —                          | SB1808-B<br>(500) (10x500)    |
| SB1810S  | —        | Steel Crimp Sleeve  | 18-10 AWG  | —           | 0.204    | 0.295                | 0.240          | —                    | 0.374             | SB1810S<br>(100) (10x100) | —                          | SB1810S-B<br>(1000) (10x1000) |
| SB1408S  | —        | Steel Crimp Sleeve  | 14-8 AWG   | —           | 0.263    | 0.364                | 0.307          | —                    | 0.610             | SB1408S<br>(50) (10x50)   | —                          | SB1408S-B<br>(500) (10x500)   |
| TOP-S-D  | 3        | Ceramic, White      | 22-14 AWG  | —           | —        | —                    | 0.400          | —                    | 0.685             | TOP-S-D<br>(15) (15x25)   | TOP-S-CD<br>(100) (10x100) | —                             |
| TOP-M-D  | 3        | Ceramic, White      | 22-10 AWG  | —           | —        | —                    | 0.590          | —                    | 0.818             | TOP-M-D<br>(15) (15x25)   | TOP-M-CD<br>(100) (10x100) | —                             |
| TOP-L-D  | 3        | Ceramic, White      | 18-8 AWG   | —           | —        | —                    | 0.720          | —                    | 0.910             | TOP-L-D<br>(15) (15x25)   | TOP-L-CD<br>(100) (10x100) | —                             |
| C22-N    | 4        | Nylon, Clear        | 22-18 AWG  | 300V        | 0.102    | 0.244                | 0.307          | 0.236                | 0.709             | —                         | C22-N<br>(100) (18x100)    | C22-N-B<br>(1000) (30x1000)   |
| C16-N    | 4        | Nylon, Clear        | 22-14 AWG  | 300V        | 0.118    | 0.311                | 0.374          | 0.276                | 0.787             | —                         | C16-N<br>(100) (12x100)    | C16-N-B<br>(1000) (20x1000)   |
| C12-N    | 4        | Nylon, Clear        | 22-10 AWG  | 300V        | 0.173    | 0.413                | 0.492          | 0.378                | 1.004             | —                         | C12-N<br>(50) (12x50)      | C12-N-B<br>(1000) (10x1000)   |
| C8-N*    | 4        | Nylon, Clear        | 16-10 AWG  | 300V        | 0.209    | 0.488                | 0.563          | 0.472                | 1.091             | —                         | C8-N<br>(40) (12x40)       | C8-N-B<br>(500) (12x500)      |



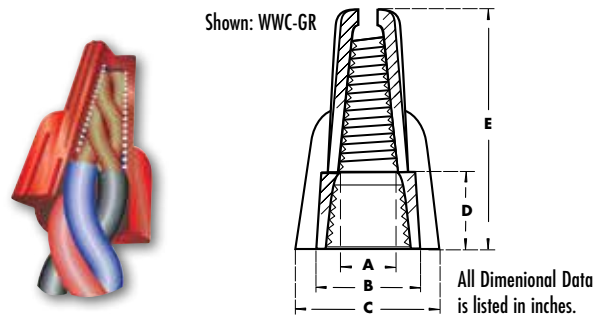
Scan QR code  
for mobile access  
to wire combinations.

# EASY-TWIST™ Illustrations & Drawings

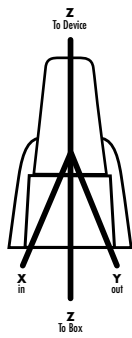
## STANDARD TWIST-ON



## WINGED TWIST-ON



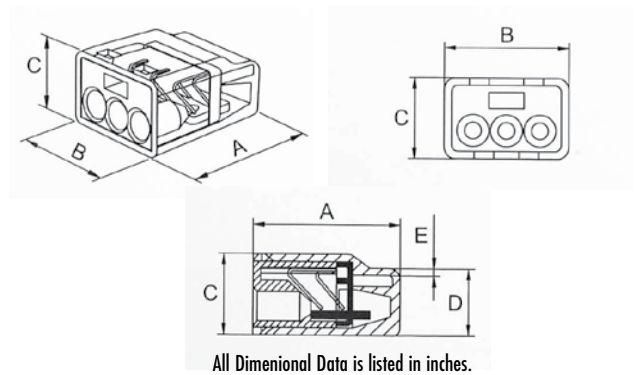
## WINGED GREEN CONNECTOR



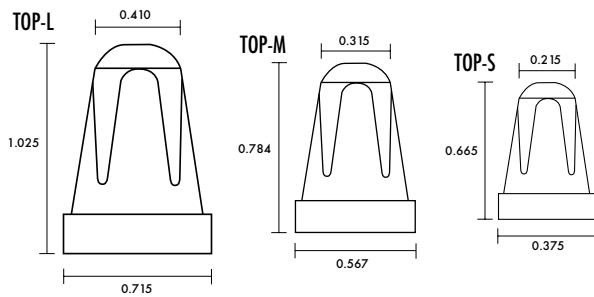
### WINGED GREEN GROUNDING CONNECTOR:

**X** System grounding wire.  
**Y** System grounding wire.  
**Z** "Through" wire between device and box ground.  
**Note:** If "through" wire is a jumper, be sure wire extends below skirt 6" min.

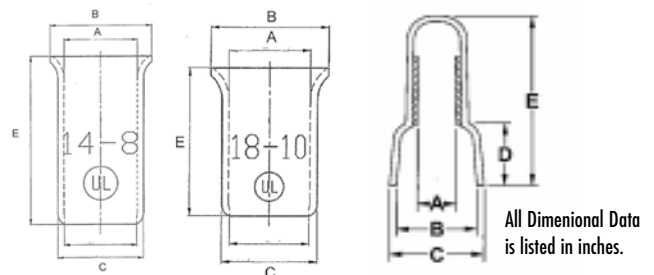
## PUSH-IN



## TOP



## PUSH-IN



Scan QR code  
for mobile access  
to wire combinations.





# MINITERMS, SWITCHES & INDICATOR LIGHTS





# MINITERMS

## Butt Splices

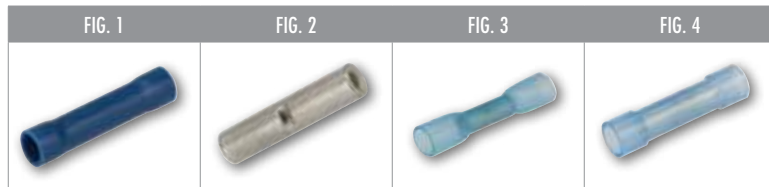
### B Series

#### FEATURES

- Constructed from electro-tin plated copper tubing.
- Center stop provides equal insertion of wires.
- Available in vinyl, nylon, polyolefin and un-insulated formats.

#### SPECIFICATIONS

- **Vinyl:** Electro tin plated copper, vinyl (PVC) 600V, 75 °C.
- **Un-Insulated:** Electro tin plated copper, 600V, 105 °C.
- **Polyolefin HS:** Electro tin plated copper, Heat shrink, 600V, 105 °C, Shrink temp 150 °C.
- **Nylon:** Electro tin plated copper, Nylon, 600V, 105 °C.



| FIG. NO. | INSULATION TYPE | WIRE RANGE | RATINGS | OA LENGTH (L) (IN.) | SEAM TYPE | "S" PACKS |     | PRO PACKS |     | STD PACKS |     | BULK PACKS |      |
|----------|-----------------|------------|---------|---------------------|-----------|-----------|-----|-----------|-----|-----------|-----|------------|------|
|          |                 |            |         |                     |           | CAT. NO.  | QTY | CAT. NO.  | QTY | CAT. NO.  | QTY | CAT. NO.   | QTY  |
| 1        | Vinyl           | 22-18      | cULus   | 1.024               | Seamless  | B22-V-S   | 25  | B22-V-P   | 70  | B22-V     | 100 | B22-V-BULK | 1000 |
| 1        | Vinyl           | 16-14      | cULus   | 1.024               | Seamless  | B16-V-S   | 20  | B16-V-P   | 50  | B16-V     | 100 | B16-V-BULK | 1000 |
| 1        | Vinyl           | 12-10      | cULus   | 1.024               | Seamless  | B12-V-S   | 15  | B12-V-P   | 30  | B12-V     | 50  | B12-V-BULK | 500  |
| 1        | Vinyl           | 8          | —       | 1.398               | Seamless  | —         | —   | B8-V-P    | 10  | B8-V      | 50  | B8-V-BULK  | 250  |
| 1        | Vinyl           | 6          | UL      | 1.855               | Seamless  | —         | —   | —         | —   | B6-V      | 50  | B6-V-BULK  | 100  |
| 2        | Un-insulated    | 22-18      | cULus   | 0.472               | Seamless  | —         | —   | —         | —   | B22       | 100 | B22-BULK   | 1000 |
| 2        | Un-insulated    | 16-14      | cULus   | 0.591               | Seamless  | —         | —   | —         | —   | B16       | 100 | B16-BULK   | 1000 |
| 2        | Un-insulated    | 12-10      | cULus   | 0.591               | Seamless  | —         | —   | —         | —   | B12       | 50  | B12-BULK   | 1000 |
| 2        | Un-insulated    | 8          | UL      | 0.827               | Seamless  | —         | —   | —         | —   | B8        | 50  | B8-BULK    | 1000 |
| 3        | Polyolefin HS   | 22-18      | —       | 0.945               | Seamless  | —         | —   | —         | —   | SB22      | 25  | SB22-BULK  | 500  |
| 3        | Polyolefin HS   | 16-14      | —       | 1.457               | Seamless  | —         | —   | —         | —   | SB16      | 25  | SB16-BULK  | 500  |
| 3        | Polyolefin HS   | 12-10      | —       | 1.614               | Seamless  | —         | —   | —         | —   | SB12      | 50  | SB12-BULK  | 500  |
| 4        | Nylon           | 22-18      | cULus   | 1.024               | Seamless  | —         | —   | —         | —   | B22-N     | 100 | B22-N-BULK | 1000 |
| 4        | Nylon           | 16-14      | cULus   | 1.024               | Seamless  | —         | —   | —         | —   | B16-N     | 100 | B16-N-BULK | 1000 |
| 4        | Nylon           | 12-10      | cULus   | 1.063               | Seamless  | —         | —   | —         | —   | B12-N     | 50  | B12-N-BULK | 500  |



# MINITERMS

## Spade Terminals: Locking

S Series

### SPECIFICATIONS

- **Vinyl:** Electro tin plated copper, vinyl (PVC) 600V, 75 °C.
- **Un-Insulated:** Electro tin plated copper, 600V, 105 °C.
- **Nylon:** Electro tin plated copper, easy-entry Nylon, 600V, 105 °C.

### FEATURES

- Tongue snaps around the screw & terminal is locked into place until the mounting screw can be tightened down.
- Constructed from electro-tin plated copper tubing.
- Available in vinyl, nylon, and un-insulated formats.



| FIG. NO. | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (L) (IN) | WIDTH (W) (IN) | SEAM TYPE | PRO PACKS   |     | STD PACKS |     | BULK PACKS     |      |
|----------|-----------------|------------|-----------|---------|-----------------|----------------|-----------|-------------|-----|-----------|-----|----------------|------|
|          |                 |            |           |         |                 |                |           | CAT. NO.    | QTY | CAT. NO.  | QTY | CAT. NO.       | QTY  |
| 1        | Vinyl           | 22-18      | #10       | cULus   | 0.827           | 0.315          | Butted    | –           | –   | S22-10V-L | 100 | S22-10V-L-BULK | 1000 |
| 1        | Vinyl           | 22-18      | #6        | cULus   | 0.827           | 0.228          | Butted    | –           | –   | S22-6V-L  | 100 | S22-6V-L-BULK  | 1000 |
| 1        | Vinyl           | 22-18      | #8        | cULus   | 0.827           | 0.315          | Butted    | –           | –   | S22-8V-L  | 100 | S22-8V-L-BULK  | 1000 |
| 1        | Vinyl           | 16-14      | #10       | cULus   | 0.866           | 0.335          | Butted    | S16-10V-L-P | 85  | S16-10V-L | 100 | S16-10V-L-BULK | 1000 |
| 1        | Vinyl           | 16-14      | #6        | cULus   | 0.827           | 0.228          | Butted    | –           | –   | S16-6V-L  | 100 | S16-6V-L-BULK  | 1000 |
| 1        | Vinyl           | 16-14      | #8        | cULus   | 0.827           | 0.283          | Butted    | S16-8V-L-P  | 85  | S16-8V-L  | 50  | S16-8V-L-BULK  | 1000 |
| 1        | Vinyl           | 12-10      | #10       | cULus   | 0.992           | 0.374          | Butted    | –           | –   | S12-10V-L | 50  | S12-10V-L-BULK | 500  |
| 1        | Vinyl           | 12-10      | #6        | cULus   | 0.992           | 0.335          | Butted    | –           | –   | S12-6V-L  | 50  | S12-6V-L-BULK  | 500  |
| 1        | Vinyl           | 12-10      | #8        | cULus   | 0.992           | 0.335          | Butted    | –           | –   | S12-8V-L  | 50  | S12-8V-L-BULK  | 500  |
| 2        | Un-insulated    | 22-18      | #10       | UL      | 0.694           | 0.340          | Brazed    | –           | –   | S22-10-L  | 100 | S22-10-L-BULK  | 1000 |
| 2        | Un-insulated    | 22-18      | #6        | UL      | 0.585           | 0.260          | Brazed    | –           | –   | S22-6-L   | 100 | S22-6-L-BULK   | 1000 |
| 2        | Un-insulated    | 22-18      | #8        | UL      | 0.646           | 0.261          | Brazed    | –           | –   | S22-8-L   | 100 | S22-8-L-BULK   | 1000 |
| 2        | Un-insulated    | 16-14      | #10       | UL      | 0.694           | 0.340          | Brazed    | –           | –   | S16-10-L  | 100 | S16-10-L-BULK  | 1000 |
| 2        | Un-insulated    | 16-14      | #6        | UL      | 0.585           | 0.260          | Brazed    | –           | –   | S16-6-L   | 100 | S16-6-L-BULK   | 1000 |
| 2        | Un-insulated    | 16-14      | #8        | UL      | 0.646           | 0.320          | Brazed    | –           | –   | S16-8-L   | 100 | S16-8-L-BULK   | 1000 |
| 2        | Un-insulated    | 12-10      | #10       | UL      | 0.773           | 0.340          | Brazed    | –           | –   | S12-10-L  | 50  | S12-10-L-BULK  | 1000 |
| 2        | Un-insulated    | 12-10      | #6        | UL      | 0.664           | 0.260          | Brazed    | –           | –   | S12-6-L   | 50  | S12-6-L-BULK   | 1000 |
| 2        | Un-insulated    | 12-10      | #8        | UL      | 0.646           | 0.261          | Brazed    | –           | –   | S12-8-L   | 50  | S12-8-L-BULK   | 1000 |
| 3        | Nylon           | 22-18      | #8        | UL      | 0.866           | 0.315          | Butted    | –           | –   | S22-8N-L  | 100 | S22-8N-L-BULK  | 1000 |
| 3        | Nylon           | 16-14      | #10       | UL      | 0.906           | 0.335          | Butted    | –           | –   | S16-10N-L | 100 | S16-10N-L-BULK | 1000 |
| 3        | Nylon           | 16-14      | #6        | UL      | 0.866           | 0.328          | Butted    | –           | –   | S16-6N-L  | 100 | S16-6N-L-BULK  | 1000 |
| 3        | Nylon           | 16-14      | #8        | UL      | 0.866           | 0.283          | Butted    | –           | –   | S16-8N-L  | 100 | S16-8N-L-BULK  | 1000 |
| 3        | Nylon           | 12-10      | #10       | UL      | 1.012           | 0.374          | Butted    | –           | –   | S12-10N-L | 50  | S12-10N-L-BULK | 1000 |
| 3        | Nylon           | 12-10      | #8        | UL      | 1.012           | 0.335          | Butted    | –           | –   | S12-8N-L  | 50  | S12-8N-L-BULK  | 1000 |

# MINITERMS

## Flange Spade Terminals

S Series

### SPECIFICATIONS

- **Vinyl:** Electro tin plated copper, vinyl (PVC) 600V, 75 °C.
- **Un-Insulated:** Electro tin plated copper, 600V, 105 °C.
- **Nylon:** Electro tin plated copper, Nylon, 600V, 105 °C.

### FEATURES

- Vinyl, Un-Insulated and Nylon Flange Spades have turned up edges giving this spade more safety and reliability. Flanges give a location and locking action that aid in installation.
- Available in vinyl, nylon, polyolefin and un-insulated formats.



| FIG. NO. | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (IN) | WIDTH (IN) | SEAM TYPE | STD PACKS |     | BULK PACKS     |      |
|----------|-----------------|------------|-----------|---------|-------------|------------|-----------|-----------|-----|----------------|------|
|          |                 |            |           |         |             |            |           | CAT. NO.  | QTY | CAT. NO.       | QTY  |
| 1        | Vinyl           | 22-18      | #6        | UL      | 0.836       | 0.301      | Butted    | S22-6V-F  | 100 | S22-6V-F-BULK  | 1000 |
| 1        | Vinyl           | 22-18      | #8        | UL      | 0.836       | 0.301      | Butted    | S22-8V-F  | 100 | S22-8V-F-BULK  | 1000 |
| 1        | Vinyl           | 16-14      | #10       | UL      | 0.850       | 0.301      | Butted    | S16-10V-F | 100 | S16-10V-F-BULK | 1000 |
| 1        | Vinyl           | 16-14      | #6        | UL      | 0.850       | 0.301      | Butted    | S16-6V-F  | 100 | S16-6V-F-BULK  | 1000 |
| 1        | Vinyl           | 16-14      | #8        | UL      | 0.850       | 0.301      | Butted    | S16-8V-F  | 100 | S16-8V-F-BULK  | 1000 |
| 1        | Vinyl           | 12-10      | #10       | UL      | 1.075       | 0.320      | Butted    | S12-10V-F | 50  | S12-10V-F-BULK | 1000 |
| 1        | Vinyl           | 12-10      | #8        | UL      | 1.075       | 0.320      | Butted    | S12-8V-F  | 50  | S12-8V-F-BULK  | 1000 |
| 2        | Un-insulated    | 16-14      | #10       | UL      | 0.635       | 0.300      | Brazed    | S16-10-F  | 100 | S16-10-F-BULK  | 1000 |
| 2        | Un-insulated    | 16-14      | #6        | UL      | 0.570       | 0.301      | Brazed    | S16-6-F   | 100 | S16-6-F-BULK   | 1000 |
| 3        | Nylon           | 22-18      | #6        | UL      | 0.885       | 0.294      | Butted    | S22-6N-F  | 100 | S22-6N-F-BULK  | 1000 |
| 3        | Nylon           | 16-14      | #10       | UL      | 0.910       | 0.293      | Butted    | S16-10N-F | 100 | S16-10N-F-BULK | 1000 |
| 3        | Nylon           | 16-14      | #6        | UL      | 0.910       | 0.293      | Butted    | S16-6N-F  | 100 | S16-6N-F-BULK  | 1000 |
| 3        | Nylon           | 16-14      | #8        | UL      | 0.908       | 0.294      | Butted    | S16-8N-F  | 100 | S16-8N-F-BULK  | 1000 |
| 3        | Nylon           | 12-10      | #10       | UL      | 0.770       | 0.385      | Butted    | S12-10N-F | 50  | S12-10N-F-BULK | 1000 |

# MINITERMS

## Block Spade Terminals

### S Series

### SPECIFICATIONS

- **Vinyl:** Electro tin plated copper vinyl (PVC) 300V, 75 °C.
- **Un-Insulated:** Electro tin plated copper 600V, 105 °C.
- **Nylon:** Electro tin plated copper Nylon, 600V, 105 °C.

### FEATURES

- Vinyl, Un-Insulated and Nylon Block Spades have Similar tongue style to a spade, block spades have longer, flatter sides designed for use in terminal blocks.
- Available in vinyl, nylon, polyolefin and un-insulated formats.



| FIG. NO. | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (IN) | WIDTH (IN) | SEAM TYPE | STD PACKS |     | BULK PACKS     |      |
|----------|-----------------|------------|-----------|---------|-------------|------------|-----------|-----------|-----|----------------|------|
|          |                 |            |           |         |             |            |           | CAT. NO.  | QTY | CAT. NO.       | QTY  |
| 1        | Vinyl           | 22-18      | #10       | UL      | 0.831       | 0.297      | Butted    | S22-10V-B | 100 | S22-10V-B-BULK | 1000 |
| 1        | Vinyl           | 22-18      | #6        | UL      | 0.560       | 0.301      | Butted    | S22-6V-B  | 100 | S22-6V-B-BULK  | 1000 |
| 1        | Vinyl           | 22-18      | #8        | UL      | 0.822       | 0.296      | Butted    | S22-8V-B  | 100 | S22-8V-B-BULK  | 1000 |
| 1        | Vinyl           | 16-14      | #10       | UL      | —           | —          | Butted    | S16-10V-B | 100 | S16-10V-BULK   | 1000 |
| 1        | Vinyl           | 16-14      | #6        | UL      | 0.828       | 0.251      | Butted    | S16-6V-B  | 100 | S16-6V-B-BULK  | 1000 |
| 1        | Vinyl           | 16-14      | #8        | UL      | 0.781       | 0.295      | Butted    | S16-8V-B  | 100 | S16-8V-B-BULK  | 1000 |
| 2        | Un-insulated    | 22-18      | #6        | UL      | 0.560       | 0.255      | Brazed    | S22-6-B   | 100 | S22-6-B-BULK   | 1000 |
| 2        | Un-insulated    | 22-18      | #8        | UL      | 0.560       | 0.301      | Brazed    | S22-8-B   | 100 | S22-8-B-BULK   | 1000 |
| 2        | Un-insulated    | 16-14      | #10       | —       | 0.560       | 0.301      | Brazed    | S16-10-B  | 100 | S16-10-B-BULK  | 1000 |
| 2        | Un-insulated    | 16-14      | #6        | UL      | 0.736       | 0.332      | Brazed    | S16-6-B   | 100 | S16-6-B-BULK   | 1000 |
| 2        | Un-insulated    | 16-14      | #8        | UL      | 0.736       | 0.329      | Brazed    | S16-8-B   | 100 | S16-8-B-BULK   | 1000 |
| 3        | Nylon           | 22-18      | #10       | UL      | 0.904       | 0.293      | Butted    | S22-10N-B | 100 | S22-10N-B-BULK | 1000 |
| 3        | Nylon           | 22-18      | #6        | UL      | 0.904       | 0.297      | Butted    | S22-6N-B  | 100 | S22-6N-B-BULK  | 1000 |
| 3        | Nylon           | 16-14      | #10       | —       | 0.556       | 0.305      | Butted    | S16-10N-B | 100 | S16-10N-B-BULK | 1000 |
| 3        | Nylon           | 16-14      | #6        | UL      | 0.940       | 0.245      | Butted    | S16-6N-B  | 100 | S16-6N-B-BULK  | 1000 |
| 3        | Nylon           | 16-14      | #8        | UL      | 0.940       | 0.295      | Butted    | S16-8N-B  | 100 | S16-8N-B-BULK  | 1000 |

# MINITERMS

## Spade Terminals

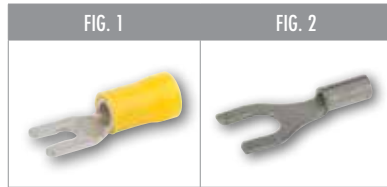
### S Series

### SPECIFICATIONS

- Vinyl: Electro tin plated copper, vinyl (PVC) 300V, 75 °C.
- Un-Insulated: Electro tin plated copper, 600V, 105 °C.

### FEATURES

- Vinyl and Un-Insulated Spade Terminal have open tongue end for rapid insertion on the mounting screw. Typically used on free-standing studs.



| FIG. NO. | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | SEAM TYPE | "S" PACKS |     | PRO PACKS |     | STD PACKS |     | BULK PACKS   |      |
|----------|-----------------|------------|-----------|---------|------------------|-----------------|-----------|-----------|-----|-----------|-----|-----------|-----|--------------|------|
|          |                 |            |           |         |                  |                 |           | CAT. NO.  | QTY | CAT. NO.  | QTY | CAT. NO.  | QTY | CAT. NO.     | QTY  |
| 1        | Vinyl           | 22-18      | 1/4       | cULus   | 1.070            | 0.472           | Butted    | —         | —   | —         | —   | S22-14V   | 100 | S22-14V-BULK | 1000 |
| 1        | Vinyl           | 22-18      | #10       | cULus   | 0.826            | 0.374           | Butted    | S22-10V-S | 25  | S22-10V-P | 100 | S22-10V   | 100 | S22-10V-BULK | 1000 |
| 1        | Vinyl           | 22-18      | #4        | cULus   | 0.817            | 0.251           | Butted    | —         | —   | —         | —   | S22-4V    | 100 | S22-4V-BULK  | 1000 |
| 1        | Vinyl           | 22-18      | #6        | cULus   | 0.826            | 0.228           | Butted    | S22-6V-S  | 25  | S22-6V-P  | 100 | S22-6V    | 100 | S22-6V-BULK  | 1000 |
| 1        | Vinyl           | 22-18      | #8        | cULus   | 0.826            | 0.283           | Butted    | S22-8V-S  | 25  | S22-8V-P  | 100 | S22-8V    | 100 | S22-8V-BULK  | 1000 |
| 1        | Vinyl           | 16-14      | 1/4       | cULus   | 0.812            | 0.543           | Butted    | —         | —   | —         | —   | S16-14V   | 100 | S16-14V-BULK | 1000 |
| 1        | Vinyl           | 16-14      | #10       | cULus   | 0.966            | 0.362           | Butted    | S16-10V-S | 20  | S16-10V-P | 85  | S16-10V   | 100 | S16-10V-BULK | 1000 |
| 1        | Vinyl           | 16-14      | #6        | cULus   | 0.966            | 0.388           | Butted    | S16-6V-S  | 20  | S16-6V-P  | 85  | S16-6V    | 100 | S16-6V-BULK  | 1000 |
| 1        | Vinyl           | 16-14      | #8        | cULus   | 1.103            | 0.388           | Butted    | S16-8V-S  | 20  | S16-8V-P  | 85  | S16-8V    | 100 | S16-8V-BULK  | 1000 |
| 1        | Vinyl           | 12-10      | 1/4       | cULus   | 1.103            | 0.375           | Butted    | S12-14V-S | 12  | S12-14V-P | 40  | S12-14V   | 50  | S12-14V-BULK | 500  |
| 1        | Vinyl           | 12-10      | #10       | cULus   | 1.103            | 0.375           | Butted    | S12-10V-S | 15  | S12-10V-P | 50  | S12-10V   | 50  | S12-10V-BULK | 500  |
| 1        | Vinyl           | 12-10      | #6        | cULus   | 1.103            | 0.375           | Butted    | S12-6V-S  | 15  | S12-6V-P  | 50  | S12-6V    | 50  | S12-6V-BULK  | 500  |
| 1        | Vinyl           | 12-10      | #8        | cULus   | 0.690            | 0.316           | Butted    | S12-8V-S  | 15  | S12-8V-P  | 50  | S12-8V    | 50  | S12-8V-BULK  | 500  |
| 2        | Un-insulated    | 22-18      | #10       | UL      | 0.623            | 0.251           | Brazed    | —         | —   | —         | —   | S22-10    | 100 | S22-10-BULK  | 1000 |
| 2        | Un-insulated    | 22-18      | #4        | UL      | 0.629            | 0.228           | Brazed    | —         | —   | —         | —   | S22-4     | 100 | S22-4-BULK   | 1000 |
| 2        | Un-insulated    | 22-18      | #6        | cULus   | 0.778            | 0.316           | Brazed    | —         | —   | —         | —   | S22-6     | 100 | S22-6-BULK   | 1000 |
| 2        | Un-insulated    | 22-18      | #8        | UL      | 0.770            | 0.388           | Brazed    | —         | —   | —         | —   | S22-8     | 100 | S22-8-BULK   | 1000 |
| 2        | Un-insulated    | 16-14      | #10       | cULus   | 0.638            | 0.245           | Brazed    | —         | —   | S16-10-P  | 100 | S16-10    | 100 | S16-10-BULK  | 1000 |
| 2        | Un-insulated    | 16-14      | #6        | cULus   | 0.635            | 0.295           | Brazed    | —         | —   | —         | —   | S16-6     | 100 | S16-6-BULK   | 1000 |
| 2        | Un-insulated    | 16-14      | #8        | UL      | 1.000            | 0.492           | Brazed    | —         | —   | S16-8-P   | 100 | S16-8     | 100 | S16-8-BULK   | 1000 |
| 2        | Un-insulated    | 12-10      | 1/4       | —       | 0.812            | 0.375           | Brazed    | —         | —   | —         | —   | S12-14    | 50  | S12-14-BULK  | 1000 |
| 2        | Un-insulated    | 12-10      | #10       | cULus   | 0.812            | 0.375           | Brazed    | —         | —   | —         | —   | S12-10    | 50  | S12-10-BULK  | 1000 |
| 2        | Un-insulated    | 12-10      | #6        | UL      | 0.812            | 0.375           | Brazed    | —         | —   | —         | —   | S12-6     | 50  | S12-6-BULK   | 1000 |
| 2        | Un-insulated    | 12-10      | #8        | cULus   | 0.953            | 0.471           | Brazed    | —         | —   | —         | —   | S12-8     | 50  | S12-8-BULK   | 1000 |
| 2        | Un-insulated    | 8          | 1/4       | —       | 0.956            | 0.471           | Brazed    | —         | —   | —         | —   | S8-14     | 50  | S8-14-BULK   | 100  |
| 2        | Un-insulated    | 8          | #10       | —       | 1.033            | 0.322           | Brazed    | —         | —   | —         | —   | S8-10     | 50  | S8-10-BULK   | 100  |

# MINITERMS

## Spade Terminals

### S Series Cont'd

#### SPECIFICATIONS

- Nylon: Electro tin plated copper, Nylon, 600V, 105 °C.

#### FEATURES

- Nylon Spade Terminal have open tongue end for rapid insertion on the mounting screw. Typically used on free-standing studs.



| FIG. NO. | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | SEAM TYPE | STD PACKS |     | BULK PACKS   |      |
|----------|-----------------|------------|-----------|---------|------------------|-----------------|-----------|-----------|-----|--------------|------|
|          |                 |            |           |         |                  |                 |           | CAT. NO.  | QTY | CAT. NO.     | QTY  |
| 3        | Nylon           | 22-18      | #10       | UL      | 0.727            | 0.187           | Butted    | S22-10N   | 100 | S22-10N-BULK | 1000 |
| 3        | Nylon           | 22-18      | #4        | UL      | 1.031            | 0.319           | Butted    | S22-4N    | 100 | S22-4N-BULK  | 1000 |
| 3        | Nylon           | 22-18      | #6        | UL      | 0.898            | 0.286           | Butted    | S22-6N    | 100 | S22-6N-BULK  | 1000 |
| 3        | Nylon           | 22-18      | #8        | UL      | 1.022            | 0.472           | Butted    | S22-8N    | 100 | S22-8N-BULK  | 1000 |
| 3        | Nylon           | 16-14      | 1/4       | —       | 0.898            | 0.338           | Butted    | S16-14N   | 100 | S16-14N-BULK | 1000 |
| 3        | Nylon           | 16-14      | #10       | cULus   | 0.855            | 0.255           | Butted    | S16-10N   | 100 | S16-10N-BULK | 1000 |
| 3        | Nylon           | 16-14      | #6        | cULus   | 0.855            | 0.286           | Butted    | S16-6N    | 100 | S16-6N-BULK  | 1000 |
| 3        | Nylon           | 16-14      | #8        | cULus   | 1.221            | 0.476           | Butted    | S16-8N    | 100 | S16-8N-BULK  | 1000 |
| 3        | Nylon           | 12-10      | 1/4       | cULus   | 1.024            | 0.375           | Butted    | S12-14N   | 50  | S12-14N-BULK | 500  |
| 3        | Nylon           | 12-10      | #10       | cULus   | 1.000            | 0.336           | Butted    | S12-10N   | 50  | S12-10N-BULK | 500  |
| 3        | Nylon           | 12-10      | #6        | cULus   | 1.000            | 0.375           | Butted    | S12-6N    | 50  | S12-6N-BULK  | 500  |
| 3        | Nylon           | 12-10      | #8        | cULus   | 1.256            | 0.474           | Butted    | S12-8N    | 50  | S12-8N-BULK  | 500  |
| 3        | Nylon           | 8          | 1/4       | —       | 1.256            | 0.474           | Butted    | S8-14N    | 50  | S8-14N-BULK  | 500  |
| 3        | Nylon           | 8          | #10       | —       | 1.256            | 0.474           | Butted    | S8-10N    | 50  | S8-10N-BULK  | 500  |

# MINITERMS

## Vinyl Ring Terminals

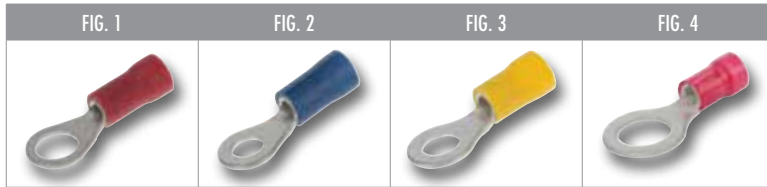
R Series

### SPECIFICATIONS

- Vinyl: Electro tin plated copper, vinyl (PVC) 600V, 75 °C.

### FEATURES

- Vinyl Ring Terminal have Basic tongue type ring terminal. Safe and reliable connections, because it cannot be disconnected unless the screw is completely removed.



| FIG. NO. | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | SEAM TYPE | "S" PACKS |     | PRO PACKS |     | STD PACKS |     | BULK PACKS   |      |
|----------|-----------------|------------|-----------|---------|------------------|-----------------|-----------|-----------|-----|-----------|-----|-----------|-----|--------------|------|
|          |                 |            |           |         |                  |                 |           | CAT. NO.  | QTY | CAT. NO.  | QTY | CAT. NO.  | QTY | CAT. NO.     | QTY  |
| 1        | Vinyl           | 22-18      | 1/4       | cULus   | 1.055            | 0.456           | Butted    | —         | —   | —         | —   | R22-14V   | 100 | R22-14V-BULK | 1000 |
| 1        | Vinyl           | 22-18      | 5/16      | UL      | 1.085            | 0.464           | Butted    | —         | —   | —         | —   | R22-56V   | 100 | R22-56V-BULK | 1000 |
| 1        | Vinyl           | 22-18      | 3/8       | UL      | 1.306            | 0.534           | Butted    | —         | —   | —         | —   | R22-38V   | 100 | R22-38V-BULK | 1000 |
| 1        | Vinyl           | 22-18      | #10       | cULus   | 0.826            | 0.314           | Butted    | R22-10V-S | 25  | R22-10V-P | 100 | R22-10V   | 100 | R22-10V-BULK | 1000 |
| 1        | Vinyl           | 22-18      | #6        | cULus   | 0.826            | 0.314           | Butted    | R22-6V-S  | 25  | —         | —   | R22-6V    | 100 | R22-6V-BULK  | 1000 |
| 1        | Vinyl           | 22-18      | #8        | cULus   | 0.826            | 0.314           | Butted    | R22-8V-S  | 25  | R22-8V-P  | 100 | R22-8V    | 100 | R22-8V-BULK  | 1000 |
| 2        | Vinyl           | 16-14      | 1/4       | cULus   | 1.062            | 0.472           | Butted    | —         | —   | R16-14V-P | 70  | R16-14V   | 100 | R16-14V-BULK | 1000 |
| 2        | Vinyl           | 16-14      | 5/16      | cULus   | 1.062            | 0.472           | Butted    | —         | —   | —         | —   | R16-56V   | 100 | R16-56V-BULK | 1000 |
| 2        | Vinyl           | 16-14      | 3/8       | cULus   | 1.208            | 0.535           | Butted    | —         | —   | —         | —   | R16-38V   | 100 | R16-38V-BULK | 1000 |
| 2        | Vinyl           | 16-14      | 1/2       | —       | 1.348            | 0.745           | Butted    | —         | —   | —         | —   | R16-50V   | 100 | R16-50V-BULK | 1000 |
| 2        | Vinyl           | 16-14      | #10       | cULus   | 0.866            | 0.334           | Butted    | R16-10V-S | 25  | R16-10V-P | 90  | R16-10V   | 100 | R16-10V-BULK | 1000 |
| 2        | Vinyl           | 16-14      | #6        | cULus   | 0.767            | 0.259           | Butted    | R16-6V-S  | 25  | R16-6V-P  | 90  | R16-6V    | 100 | R16-6V-BULK  | 1000 |
| 2        | Vinyl           | 16-14      | #8        | cULus   | 0.866            | 0.334           | Butted    | R16-8V-S  | 25  | R16-8V-P  | 90  | R16-8V    | 100 | R16-8V-BULK  | 1000 |
| 3        | Vinyl           | 12-10      | 1/4       | cULus   | 1.141            | 0.472           | Butted    | R12-14V-S | 20  | R12-14V-P | 50  | R12-14V   | 50  | R12-14V-BULK | 500  |
| 3        | Vinyl           | 12-10      | 5/16      | cULus   | 1.326            | 0.59            | Butted    | —         | —   | —         | —   | R12-56V   | 50  | R12-56V-BULK | 500  |
| 3        | Vinyl           | 12-10      | 3/8       | cULus   | 1.326            | 0.59            | Butted    | R12-38V-S | 10  | —         | —   | R12-38V   | 50  | R12-38V-BULK | 500  |
| 3        | Vinyl           | 12-10      | 1/2       | cULus   | 1.499            | 0.755           | Butted    | —         | —   | —         | —   | R12-50V   | 50  | R12-50V-BULK | 500  |
| 3        | Vinyl           | 12-10      | #10       | cULus   | 1.003            | 0.374           | Butted    | R12-10V-S | 10  | R12-10V-P | 50  | R12-10V   | 50  | R12-10V-BULK | 500  |
| 3        | Vinyl           | 12-10      | #6        | cULus   | 1.003            | 0.374           | Butted    | —         | —   | —         | —   | R12-6V    | 50  | R12-6V-BULK  | 500  |
| 3        | Vinyl           | 12-10      | #8        | cULus   | 1.003            | 0.374           | Butted    | R12-8V-S  | 15  | R12-8V-P  | 50  | R12-8V    | 50  | R12-8V-BULK  | 500  |
| 4        | Vinyl           | 8          | 1/4       | UL      | 1.27             | 0.374           | Butted    | —         | —   | —         | —   | R8-14V    | 50  | R8-14V-BULK  | 250  |
| 4        | Vinyl           | 8          | 5/16      | UL      | 1.31             | 0.328           | Butted    | —         | —   | —         | —   | R8-56V    | 50  | R8-56V-BULK  | 250  |
| 4        | Vinyl           | 8          | 3/8       | UL      | 1.43             | 0.583           | Butted    | —         | —   | —         | —   | R8-38V    | 50  | R8-38V-BULK  | 250  |
| 4        | Vinyl           | 8          | 1/2       | UL      | 1.73             | 0.81            | Butted    | —         | —   | —         | —   | R8-50V    | 50  | R8-50V-BULK  | 250  |
| 4        | Vinyl           | 8          | #10       | UL      | 1.27             | 0.374           | Butted    | —         | —   | —         | —   | R8-10V    | 50  | R8-10V-BULK  | 250  |

# MINITERMS

## Uninsulated Ring Terminals

R Series

### SPECIFICATIONS

- Un-Insulated Electro fin plated copper, 600V, 105 °C.

### FEATURES

- Uninsulated Ring Terminal have Basic tongue type ring terminal. Safe and reliable connections, because it cannot be disconnected unless the screw is completely removed.



| FIG. NO. | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | SEAM TYPE | PRO PACKS |     | STD PACKS |     | BULK PACKS  |      |
|----------|-----------------|------------|-----------|---------|------------------|-----------------|-----------|-----------|-----|-----------|-----|-------------|------|
|          |                 |            |           |         |                  |                 |           | CAT. NO.  | QTY | CAT. NO.  | QTY | CAT. NO.    | QTY  |
| 1        | Un-insulated    | 22-18      | 1/4       | UL      | 0.894            | 0.255           | Brazed    | —         | —   | R22-14    | 100 | R22-14-BULK | 1000 |
| 1        | Un-insulated    | 22-18      | 5/16      | UL      | 0.893            | 0.323           | Brazed    | —         | —   | R22-56    | 100 | R22-56-BULK | 1000 |
| 1        | Un-insulated    | 22-18      | 3/8       | UL      | 1.097            | 0.38            | Brazed    | —         | —   | R22-38    | 100 | R22-38-BULK | 1000 |
| 1        | Un-insulated    | 22-18      | #10       | cULus   | 0.629            | 0.314           | Brazed    | —         | —   | R22-10    | 100 | R22-10-BULK | 1000 |
| 1        | Un-insulated    | 22-18      | #6        | UL      | 0.702            | 0.312           | Brazed    | —         | —   | R22-6     | 100 | R22-6-BULK  | 1000 |
| 1        | Un-insulated    | 22-18      | #8        | cULus   | 0.629            | 0.314           | Brazed    | —         | —   | R22-8     | 100 | R22-8-BULK  | 1000 |
| 2        | Un-insulated    | 16-14      | 1/4       | cULus   | 0.866            | 0.472           | Brazed    | —         | —   | R16-14    | 100 | R16-14-BULK | 1000 |
| 2        | Un-insulated    | 16-14      | 5/16      | UL      | 0.892            | 0.472           | Brazed    | —         | —   | R16-56    | 100 | R16-56-BULK | 1000 |
| 2        | Un-insulated    | 16-14      | 3/8       | cULus   | 1.011            | 0.535           | Brazed    | —         | —   | R16-38    | 100 | R16-38-BULK | 1000 |
| 2        | Un-insulated    | 16-14      | 1/2       | —       | 1.123            | 0.748           | Brazed    | —         | —   | R16-50    | 100 | R16-50-BULK | 1000 |
| 2        | Un-insulated    | 16-14      | #10       | cULus   | 0.669            | 0.334           | Brazed    | R16-10-P  | 125 | R16-10    | 100 | R16-10-BULK | 1000 |
| 2        | Un-insulated    | 16-14      | #6        | UL      | 0.704            | 0.313           | Brazed    | —         | —   | R16-6     | 100 | R16-6-BULK  | 1000 |
| 2        | Un-insulated    | 16-14      | #8        | cULus   | 0.669            | 0.334           | Brazed    | R16-8-P   | 125 | R16-8     | 100 | R16-8-BULK  | 1000 |
| 3        | Un-insulated    | 12-10      | 1/4       | cULus   | 0.885            | 0.472           | Brazed    | —         | —   | R12-14    | 50  | R12-14-BULK | 1000 |
| 3        | Un-insulated    | 12-10      | 5/16      | cULus   | 1.07             | 0.59            | Brazed    | —         | —   | R12-56    | 50  | R12-56-BULK | 500  |
| 3        | Un-insulated    | 12-10      | 3/8       | cULus   | 1.07             | 0.59            | Brazed    | —         | —   | R12-38    | 50  | R12-38-BULK | 500  |
| 3        | Un-insulated    | 12-10      | 1/2       | —       | 1.284            | 0.755           | Brazed    | —         | —   | R12-50    | 50  | R12-50-BULK | 500  |
| 3        | Un-insulated    | 12-10      | #10       | cULus   | 0.74             | 0.372           | Brazed    | R12-10-P  | 80  | R12-10    | 50  | R12-10-BULK | 1000 |
| 3        | Un-insulated    | 12-10      | #6        | UL      | 0.766            | 0.374           | Brazed    | —         | —   | R12-6     | 50  | R12-6-BULK  | 500  |
| 3        | Un-insulated    | 12-10      | #8        | UL      | 0.766            | 0.376           | Brazed    | —         | —   | R12-8     | 50  | R12-8-BULK  | 500  |
| 4        | Un-insulated    | 8          | 1/4       | UL      | 0.956            | 0.457           | Brazed    | —         | —   | R8-14     | 50  | R8-14-BULK  | 500  |
| 4        | Un-insulated    | 8          | 5/16      | UL      | 0.952            | 0.471           | Brazed    | —         | —   | R8-56     | 50  | R8-56-BULK  | 500  |
| 4        | Un-insulated    | 8          | 3/8       | UL      | 1.083            | 0.59            | Brazed    | —         | —   | R8-38     | 50  | R8-38-BULK  | 500  |
| 4        | Un-insulated    | 8          | #10       | UL      | 0.955            | 0.47            | Brazed    | —         | —   | R8-10     | 50  | R8-10-BULK  | 500  |
| 5        | Un-insulated    | #6         | 1/4       | UL      | 1.253            | 0.634           | Brazed    | —         | —   | R6-14     | 50  | R6-14-BULK  | 500  |
| 5        | Un-insulated    | #6         | 5/16      | UL      | 1.243            | 0.635           | Brazed    | —         | —   | R6-56     | 50  | R6-56-BULK  | 500  |
| 5        | Un-insulated    | #6         | 3/8       | UL      | 1.239            | 0.635           | Brazed    | —         | —   | R6-38     | 50  | R6-38-BULK  | 500  |
| 5        | Un-insulated    | #6         | 1/2       | UL      | 1.434            | 0.827           | Brazed    | —         | —   | R6-50     | 50  | R6-50-BULK  | 500  |
| 5        | Un-insulated    | #6         | #10       | UL      | 1.18             | 0.485           | Brazed    | —         | —   | R6-10     | 50  | R6-10-BULK  | 500  |
| 6        | Un-insulated    | #4         | 1/4       | UL      | 1.245            | 0.469           | Brazed    | —         | —   | R4-14     | 25  | R4-14-BULK  | 500  |
| 6        | Un-insulated    | #4         | 5/16      | UL      | 1.25             | 0.476           | Brazed    | —         | —   | R4-56     | 25  | R4-56-BULK  | 500  |
| 6        | Un-insulated    | #4         | 3/8       | UL      | 1.34             | 0.665           | Brazed    | —         | —   | R4-38     | 25  | R4-38-BULK  | 500  |
| 6        | Un-insulated    | #4         | 1/2       | UL      | 1.327            | 0.665           | Brazed    | —         | —   | R4-50     | 25  | R4-50-BULK  | 500  |
| 7        | Un-insulated    | #2         | 1/4       | UL      | 1.563            | 0.636           | Brazed    | —         | —   | R2-14     | 25  | R2-14-BULK  | 500  |
| 7        | Un-insulated    | #2         | 5/16      | UL      | 1.673            | 0.868           | Brazed    | —         | —   | R2-56     | 25  | R2-56-BULK  | 500  |
| 7        | Un-insulated    | #2         | 3/8       | UL      | 1.563            | 0.635           | Brazed    | —         | —   | R2-38     | 25  | R2-38-BULK  | 500  |
| 7        | Un-insulated    | #2         | 1/2       | UL      | 1.677            | 0.868           | Brazed    | —         | —   | R2-50     | 25  | R2-50-BULK  | 500  |



# MINITERMS

## Nylon Ring Terminals

R Series

### SPECIFICATIONS

- Nylon: Electro tin plated copper with brazed seam, easy-entry Nylon, 600V, 105 °C.

### FEATURES

- Nylon Ring Terminal have Basic tongue type ring terminal. Safe and reliable connections, because it cannot be disconnected unless the screw is completely removed.



| FIG. NO. | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | SEAM TYPE | STD PACKS |     | BULK PACKS   |      |
|----------|-----------------|------------|-----------|---------|------------------|-----------------|-----------|-----------|-----|--------------|------|
|          |                 |            |           |         |                  |                 |           | CAT. NO.  | QTY | CAT. NO.     | QTY  |
| 1        | Nylon           | 22-18      | 1/4       | UL      | 1.094            | 0.456           | Butted    | R22-14N   | 100 | R22-14N-BULK | 1000 |
| 1        | Nylon           | 22-18      | 5/16      | UL      | 1.094            | 0.456           | Butted    | R22-56N   | 100 | R22-56N-BULK | 1000 |
| 1        | Nylon           | 22-18      | 3/8       | UL      | 1.248            | 0.535           | Butted    | R22-38N   | 100 | R22-38N-BULK | 1000 |
| 1        | Nylon           | 22-18      | #10       | UL      | 0.866            | 0.314           | Butted    | R22-10N   | 100 | R22-10N-BULK | 1000 |
| 1        | Nylon           | 22-18      | #4        | UL      | 0.953            | 0.264           | Butted    | R22-4N    | 100 | R22-4N-BULK  | 1000 |
| 1        | Nylon           | 22-18      | #6        | cULus   | 0.866            | 0.314           | Butted    | R22-6N    | 100 | R22-6N-BULK  | 1000 |
| 1        | Nylon           | 22-18      | #8        | UL      | 0.866            | 0.314           | Butted    | R22-8N    | 100 | R22-8N-BULK  | 1000 |
| 2        | Nylon           | 16-14      | 1/4       | UL      | 1.102            | 0.472           | Butted    | R16-14N   | 100 | R16-14N-BULK | 1000 |
| 2        | Nylon           | 16-14      | 5/16      | UL      | 0.807            | 0.529           | Butted    | R16-56N   | 100 | R16-56N-BULK | 1000 |
| 2        | Nylon           | 16-14      | 3/8       | UL      | 1.248            | 0.535           | Butted    | R16-38N   | 100 | R16-38N-BULK | 1000 |
| 2        | Nylon           | 16-14      | 1/2       | -       | 1.44             | 0.755           | Butted    | R16-50N   | 100 | R16-50N-BULK | 1000 |
| 2        | Nylon           | 16-14      | #10       | cULus   | 0.905            | 0.334           | Butted    | R16-10N   | 100 | R16-10N-BULK | 1000 |
| 2        | Nylon           | 16-14      | #6        | UL      | 0.995            | 0.31            | Butted    | R16-6N    | 100 | R16-6N-BULK  | 1000 |
| 2        | Nylon           | 16-14      | #8        | cULus   | 0.905            | 0.334           | Butted    | R16-8N    | 100 | R16-8N-BULK  | 1000 |
| 3        | Nylon           | 12-10      | 1/4       | cULus   | 1.161            | 0.472           | Butted    | R12-14N   | 50  | R12-14N-BULK | 500  |
| 3        | Nylon           | 12-10      | 5/16      | UL      | 1.346            | 0.59            | Butted    | R12-56N   | 50  | R12-56N-BULK | 500  |
| 3        | Nylon           | 12-10      | 3/8       | UL      | 1.346            | 0.59            | Butted    | R12-38N   | 50  | R12-38N-BULK | 500  |
| 3        | Nylon           | 12-10      | 1/2       | -       | 1.519            | 0.755           | Butted    | R12-50N   | 50  | R12-50N-BULK | 500  |
| 3        | Nylon           | 12-10      | #10       | cULus   | 1.023            | 0.374           | Butted    | R12-10N   | 50  | R12-10N-BULK | 500  |
| 3        | Nylon           | 12-10      | #6        | UL      | 1.023            | 0.374           | Butted    | R12-6N    | 50  | R12-6N-BULK  | 500  |
| 3        | Nylon           | 12-10      | #8        | UL      | 1.023            | 0.374           | Butted    | R12-8N    | 50  | R12-8N-BULK  | 500  |
| 4        | Nylon           | 8          | 1/4       | UL      | 1.39             | 0.468           | Butted    | R8-14N    | 50  | R8-14N-BULK  | 250  |
| 4        | Nylon           | 8          | 5/16      | UL      | 1.39             | 0.468           | Butted    | R8-56N    | 50  | R8-56N-BULK  | 250  |
| 4        | Nylon           | 8          | 3/8       | UL      | 1.51             | 0.588           | Butted    | R8-38N    | 50  | R8-38N-BULK  | 250  |
| 4        | Nylon           | 8          | #10       | UL      | 1.39             | 0.468           | Butted    | R8-10N    | 50  | R8-10N-BULK  | 500  |
| 5        | Nylon           | #6         | 1/4       | UL      | 1.355            | 0.48            | Butted    | R6-14N    | 50  | R6-14N-BULK  | 250  |
| 5        | Nylon           | #6         | 5/16      | UL      | 1.355            | 0.64            | Butted    | R6-56N    | 50  | R6-56N-BULK  | 250  |
| 5        | Nylon           | #6         | 3/8       | UL      | 1.355            | 0.64            | Butted    | R6-38N    | 50  | R6-38N-BULK  | 250  |
| 5        | Nylon           | #6         | 1/2       | -       | 1.447            | 0.832           | Butted    | R6-50N    | 50  | R6-50N-BULK  | 250  |
| 6        | Nylon           | #4         | 1/4       | UL      | 1.85             | 0.475           | Butted    | R4-14N    | 25  | R4-14N-BULK  | 100  |
| 6        | Nylon           | #4         | 5/16      | UL      | 1.85             | 0.475           | Butted    | R4-56N    | 25  | R4-56N-BULK  | 100  |
| 6        | Nylon           | #4         | 3/8       | UL      | 1.95             | 0.668           | Butted    | R4-38N    | 25  | R4-38N-BULK  | 100  |
| 6        | Nylon           | #4         | 1/2       | UL      | 1.95             | 0.668           | Butted    | R4-50N    | 25  | R4-50N-BULK  | 100  |
| 7        | Nylon           | #2         | 1/4       | UL      | 1.821            | 0.645           | Butted    | R2-14N    | 25  | R2-14N-BULK  | 100  |
| 7        | Nylon           | #2         | 5/16      | UL      | 1.821            | 0.645           | Butted    | R2-56N    | 25  | R2-56N-BULK  | 100  |
| 7        | Nylon           | #2         | 3/8       | UL      | 1.821            | 0.645           | Butted    | R2-38N    | 25  | R2-38N-BULK  | 100  |
| 7        | Nylon           | #2         | 1/2       | -       | 2.202            | 0.863           | Butted    | R2-50N    | 25  | R2-50N-BULK  | 100  |

# MINITERMS

## Male & Female Plugs & Adapters, Plier Taps & Pin Terminal

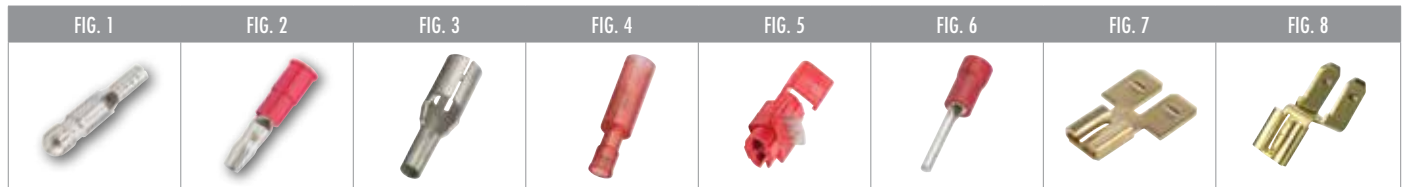
PM, PF, PTC, PT Series

### SPECIFICATIONS

- **Nylon Male Plugs:** Electro tin plated copper, Nylon, 600V, 75 °C.
- **Nylon Female Plugs:** Electro tin plated copper, Nylon, 600V, 105 °C.
- **Vinyl Piercing Taps:** Electro tin plated copper, Vinyl (PVC), 600V, 75 °C.
- **Vinyl Pin Terminal:** Electro tin plated copper, 600V, 75 °C.
- **Un-Insulated Male/Female Adapters:** Brass, quick disconnect easy-entry, 600V, 105 °C.

### FEATURES

- Uninsulated/Nylon Female Plugs are styled with safety and reliability.
- Vinyl Plier Taps have an insulated piercing tap.
- Vinyl Pin Terminals are designed for use in terminal blocks.
- Un-Insulated Male/Female adapters have similar tongue to a quick disconnects for use in terminal blocks or interconnect splices.



| FIG. NO. | STYLE                  | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | SEAM TYPE | "S" PACKS  |     | PRO PACKS  |     | STD PACKS  |     | BULK PACKS      |      |
|----------|------------------------|-----------------|------------|-----------|---------|------------------|-----------------|-----------|------------|-----|------------|-----|------------|-----|-----------------|------|
|          |                        |                 |            |           |         |                  |                 |           | CAT. NO.   | QTY | CAT. NO.   | QTY | CAT. NO.   | QTY | CAT. NO.        | QTY  |
| 1        | Plugs Male             | Un-insulated    | 22-18      | 0.157     | —       | 0.630            | 0.145           | Butted    | —          | —   | —          | —   | PM22-157   | 100 | PM22-157-BULK   | 1000 |
| 1        | Plugs Male             | Un-insulated    | 16-14      | 0.157     | —       | 0.630            | 0.136           | Butted    | —          | —   | —          | —   | PM16-157   | 100 | PM16-157-BULK   | 1000 |
| 2        | Plugs Male             | Nylon           | 22-18      | 0.157     | UR      | 0.890            | 0.145           | Butted    | —          | —   | —          | —   | PM22-157N  | 100 | PM22-157N-BULK  | 1000 |
| 2        | Plugs Male             | Nylon           | 16-14      | 0.157     | UR      | 0.890            | 0.145           | Butted    | —          | —   | —          | —   | PM16-157N  | 100 | PM16-157N-BULK  | 1000 |
| 3        | Plugs Female           | Un-insulated    | 22-18      | 0.157     | —       | 0.680            | 0.194           | Butted    | —          | —   | —          | —   | PF22-157   | 100 | PF22-157-BULK   | 1000 |
| 3        | Plugs Female           | Un-insulated    | 16-14      | 0.157     | —       | 0.680            | 0.185           | Butted    | —          | —   | —          | —   | PF16-157   | 100 | PF16-157-BULK   | 1000 |
| 4        | Plugs Female           | Nylon           | 22-18      | 0.157     | UR      | 1.000            | 0.128           | Butted    | —          | —   | —          | —   | PF22-157N  | 100 | PF22-157N-BULK  | 1000 |
| 4        | Plugs Female           | Nylon           | 22-18      | 0.157     | —       | 1.234            | 0.309           | Butted    | —          | —   | —          | —   | PFS22-157N | 100 | PFS22-157N-BULK | 1000 |
| 4        | Plugs Female           | Nylon           | 16-14      | 0.157     | UR      | 1.000            | 0.150           | Butted    | —          | —   | —          | —   | PF16-157N  | 100 | PF16-157N-BULK  | 1000 |
| 4        | Plugs Female           | Nylon           | 16-14      | 0.157     | —       | 1.233            | 0.339           | Butted    | —          | —   | —          | —   | PFS16-157N | 100 | PFS16-157N-BULK | 1000 |
| 4        | Plugs Female           | Nylon           | 16-14      | 0.197     | —       | 1.233            | 0.339           | Butted    | —          | —   | —          | —   | PFS16-197N | 100 | PFS16-197N-BULK | 1000 |
| 5        | Plier Tap Connector    | Vinyl           | 22-18      | n/a       | cULus   | 0.790            | 0.550           | —         | —          | —   | —          | —   | PTC22-18   | 100 | PTC22-18-BULK   | 500  |
| 5        | Plier Tap Connector    | Vinyl           | 16-14      | n/a       | cULus   | 0.790            | 0.550           | —         | —          | —   | —          | —   | PTC16-14   | 100 | PTC16-14-BULK   | 500  |
| 5        | Plier Tap Connector    | Vinyl           | 12-10      | n/a       | cULus   | 0.800            | 0.740           | —         | —          | —   | —          | —   | PTC12-10   | 50  | PTC12-10-BULK   | 250  |
| 6        | Pin Terminal           | Vinyl           | 22-18      | n/a       | cULus   | 0.930            | 0.078           | Butted    | —          | —   | —          | —   | PT-22V     | 100 | PT-22V-BULK     | 1000 |
| 6        | Pin Terminal           | Vinyl           | 16-14      | n/a       | cULus   | 0.930            | 0.078           | Butted    | —          | —   | —          | —   | PT-16V     | 100 | PT-16V-BULK     | 1000 |
| 6        | Pin Terminal           | Vinyl           | 12-10      | n/a       | cULus   | 1.120            | 0.107           | Butted    | —          | —   | —          | —   | PT-12V     | 50  | PT-12V-BULK     | 500  |
| 7        | Male/Female Adapter    | Un-insulated    | n/a        | 0.250     | —       | 0.825            | 0.564           | —         | DMT250-3-S | 15  | DMT250-3-P | 60  | DMT250-3   | 100 | DMT250-3-BULK   | 1000 |
| 8        | Male/Female Adapter 90 | Un-insulated    | n/a        | 0.250     | —       | 0.825            | 0.564           | —         | —          | —   | —          | —   | 250-3-Z    | 100 | 250-3-Z-BULK    | 1000 |

# MINITERMS

## High Temperature Spade, Ring, Piggyback & Disconnect

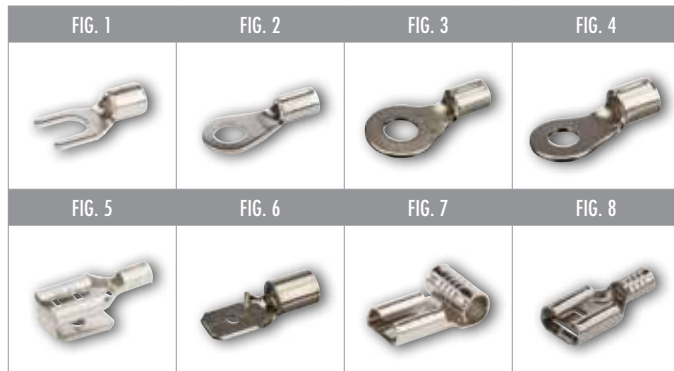
HT Series

### FEATURES

- Un-Insulated Disconnect Females have similar tongue style to a spade. Block spades have longer, flatter sides designed for use in terminal blocks.
- Terminals designed for high temperature operating conditions.

### SPECIFICATIONS

- **Un-Insulated Spade:** Spade style terminal, Nickel plated copper, 900 °F.
- **Un-Insulated Ring Terminal:** Ring style terminal, Nickel plated copper, brazed seam, 900 °F.
- **Un-Insulated Piggyback:** Turned up edges give this space more safety and reliability.
- **Un-Insulated Male Disconnect:** Quick male disconnect with butted seam, 600V, 105 °C.
- **Un-Insulated Female Disconnect:** Female quick disconnect with butted seam, 600V, 105 °C.



| FIG NO. | STYLE                  | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | SEAM TYPE | "S" PACKS     |     | PRO PACKS      |     | STD PACKS    |     | BULK PACKS        |      |
|---------|------------------------|-----------------|------------|-----------|---------|------------------|-----------------|-----------|---------------|-----|----------------|-----|--------------|-----|-------------------|------|
|         |                        |                 |            |           |         |                  |                 |           | CAT. NO.      | QTY | CAT. NO.       | QTY | CAT. NO.     | QTY | CAT. NO.          | QTY  |
| 1       | Spade                  | Un-insulated    | 12-10      | #10       | –       | 0.499            | 0.384           | Butted    | HTS12-10-S    | 15  | –              | –   | –            | –   | HTS12-10-BULK     | 1000 |
| 2       | Ring                   | Un-insulated    | 22-18      | #10       | –       | 0.443            | 0.325           | Butted    | –             | –   | –              | –   | HTR22-10     | 100 | HTR22-10-BULK     | 1000 |
| 2       | Ring                   | Un-insulated    | 22-18      | #6        | –       | 0.443            | 0.270           | Butted    | –             | –   | –              | –   | HTR22-6      | 100 | HTR22-6-BULK      | 1000 |
| 3       | Ring                   | Un-insulated    | 16-14      | #10       | –       | 0.450            | 0.384           | Butted    | –             | –   | HTR16-10-P     | 100 | HTR16-10     | 100 | HTR16-10-BULK     | 1000 |
| 3       | Ring                   | Un-insulated    | 16-14      | #6        | –       | 0.470            | 0.345           | Butted    | –             | –   | –              | –   | HTR16-6      | 100 | HTR16-6-BULK      | 1000 |
| 3       | Ring                   | Un-insulated    | 16-14      | #8        | –       | 0.444            | 0.390           | Butted    | –             | –   | –              | –   | HTR16-8      | 100 | HTR16-8-BULK      | 1000 |
| 4       | Ring                   | Un-insulated    | 12-10      | 1/4       | –       | 0.616            | 0.482           | Butted    | –             | –   | –              | –   | HTR12-14     | 50  | HTR12-14-BULK     | 1000 |
| 4       | Ring                   | Un-insulated    | 12-10      | #10       | –       | 0.530            | 0.384           | Butted    | –             | –   | HTR12-10-P     | 60  | HTR12-10     | 50  | HTR12-10-BULK     | 1000 |
| 4       | Ring                   | Un-insulated    | 12-10      | #8        | –       | 0.530            | 0.384           | Butted    | –             | –   | –              | –   | HTR12-8      | 50  | HTR12-8-BULK      | 1000 |
| 5       | Piggyback              | Un-insulated    | 16-14      | 0.250     | –       | 0.625            | 0.291           | Butted    | –             | –   | –              | –   | HTP16-250-3  | –   | HTP16-250-3-BULK  | 1000 |
| 6       | Disconnect Male        | Un-insulated    | 12-10      | 0.250     | –       | 0.685            | 0.250           | Butted    | –             | –   | –              | –   | HTM12-250-3  | 50  | HTM12-250-3-BULK  | 1000 |
| 7       | Disconnect Female Flag | Un-insulated    | 16-14      | 0.250     | –       | 0.506            | 0.312           | Butted    | –             | –   | HTSF16-250-3-P | 60  | HTSF16-250-3 | 60  | HTSF16-250-3-BULK | 1000 |
| 7       | Disconnect Female Flag | Un-insulated    | 12-10      | 0.250     | –       | 0.587            | 0.294           | Butted    | –             | –   | HTSF12-250-3-P | 50  | HTSF12-250-3 | 50  | HTSF12-250-3-BULK | 1000 |
| 8       | Disconnect Female      | Un-insulated    | 16-14      | 0.250     | –       | 0.500            | 0.250           | Butted    | HTF16-250-3-S | 15  | HTF16-250-3-P  | 60  | HTF16-250-3  | 50  | HTF16-250-3-BULK  | 1000 |
| 8       | Disconnect Female      | Un-insulated    | 12-10      | 0.250     | –       | 0.690            | 0.304           | Butted    | HTF12-250-3-S | 15  | –              | –   | –            | –   | HTF12-250-3-BULK  | 500  |

# MINITERMS

## Male Disconnects: Fully Insulated & Male/Female Adapter

M, IM, FCT Series

### SPECIFICATIONS

- **Vinyl Male Disconnects:** Electro tin plated, Vinyl (PVC), 300V, 75 °C.
- **Un-Insulated Male Disconnects:** Electro tin plated copper, 600V, 105 °C.
- **Nylon Male Disconnects:** Fully insulated, Nylon, 300V, 105 °C.
- **Un-Insulated-Bare Male/Female Adapter:** Turned up edges give this quick disconnect adaptor more safety and reliability. 600V, 105 °C.

### FEATURES

- Un-Insulated Male/Female adapters have turned up edges to give disconnect more safety and reliability.



MINITERMS, SWITCHES & INDICATOR LIGHTS

| FIG. NO. | STYLE                    | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | SEAM TYPE | "S" PACKS     |     | PRO PACKS     |     | STD PACKS   |     | BULK PACKS       |      |
|----------|--------------------------|-----------------|------------|-----------|---------|------------------|-----------------|-----------|---------------|-----|---------------|-----|-------------|-----|------------------|------|
|          |                          |                 |            |           |         |                  |                 |           | CAT. NO.      | QTY | CAT. NO.      | QTY | CAT. NO.    | QTY | CAT. NO.         | QTY  |
| 1        | Male Insulated Barrel    | Vinyl           | 22-18      | 0.250     | cULus   | 0.834            | 0.249           | Butted    | M22-250-3V-S  | 25  | —             | —   | M22-250-3V  | 100 | M22-250-3V-BULK  | 1000 |
| 1        | Male Insulated Barrel    | Vinyl           | 16-14      | 0.187     | cULus   | 0.755            | 0.188           | Butted    | —             | —   | —             | —   | M16-187-2V  | 100 | M16-187-2V-BULK  | 1000 |
| 1        | Male Insulated Barrel    | Vinyl           | 16-14      | 0.250     | cULus   | 0.834            | 0.249           | Butted    | M16-250-3V-S  | 30  | M16-250-3V-P  | 100 | M16-250-3V  | 100 | M16-250-3V-BULK  | 1000 |
| 1        | Male Insulated Barrel    | Vinyl           | 12-10      | 0.250     | cULus   | 0.933            | 0.249           | Butted    | M12-250-3V-S  | 25  | M12-250-3V-P  | 50  | M12-250-3V  | 50  | M12-250-3V-BULK  | 500  |
| 2        | Un-Insulated Male Barrel | Un-insulated    | 16-14      | 0.187     | —       | 0.630            | 0.240           | Brazed    | —             | —   | —             | —   | M16-187-2   | 100 | M16-187-2-BULK   | 1000 |
| 2        | Un-Insulated Male Barrel | Un-insulated    | 16-14      | 0.250     | —       | 0.630            | 0.240           | Brazed    | —             | —   | —             | —   | M16-250-3   | 100 | M16-250-3-BULK   | 1000 |
| 2        | Un-Insulated Male Barrel | Un-insulated    | 12-10      | 0.250     | —       | 0.765            | 0.250           | Brazed    | —             | —   | —             | —   | M12-250-3   | 50  | M12-250-3-BULK   | 1000 |
| 3        | Male Fully Insulated     | Nylon           | 22-18      | 0.250     | cULus   | 0.925            | 0.249           | Butted    | —             | —   | —             | —   | IM22-250-3N | 100 | IM22-250-3N-BULK | 1000 |
| 3        | Male Fully Insulated     | Nylon           | 22-18      | 0.250     | UL      | 0.904            | 0.249           | Butted    | —             | —   | —             | —   | M22-250-3N  | 100 | M22-250-3N-BULK  | 1000 |
| 3        | Male Fully Insulated     | Nylon           | 16-14      | 0.187     | cULus   | 0.795            | 0.188           | Butted    | —             | —   | —             | —   | M16-187-2N  | 100 | M16-187-2N-BULK  | 1000 |
| 3        | Male Fully Insulated     | Nylon           | 16-14      | 0.250     | cULus   | 0.925            | 0.249           | Butted    | IM16-250-3N-S | 20  | IM16-250-3N-P | 30  | IM16-250-3N | 50  | IM16-250-3N-BULK | 1000 |
| 3        | Male Fully Insulated     | Nylon           | 16-14      | 0.250     | cULus   | 0.874            | 0.249           | Butted    | —             | —   | —             | —   | M16-250-3N  | 100 | M16-250-3N-BULK  | 1000 |
| 3        | Male Fully Insulated     | Nylon           | 12-10      | 0.250     | cULus   | 1.062            | 0.249           | Butted    | —             | —   | —             | —   | IM12-250-3N | 50  | IM12-250-3N-BULK | 500  |
| 3        | Male Fully Insulated     | Nylon           | 12-10      | 0.250     | UL      | 1.061            | 0.249           | Butted    | —             | —   | —             | —   | M12-250-3N  | 50  | M12-250-3N-BULK  | 500  |
| 4        | Male/Female Adapter      | Un-insulated    | 12-10      | 0.250     | —       | 0.529            | 0.549           | Butted    | FCT12-250-3-S | 10  | —             | —   | FCT12-250-3 | 50  | FCT12-250-3-BULK | 1000 |

# MINITERMS

## Female Disconnects: Piggyback, Sleeved Barrel & Insulated

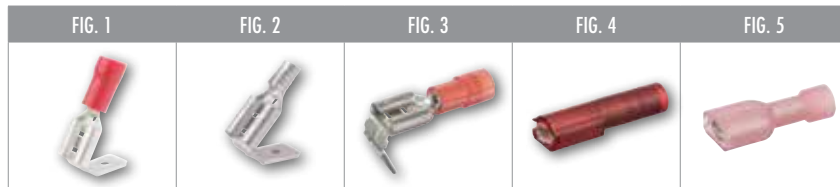
P, IFS, IF Series

### FEATURES

- Female quick disconnects feature turned up edges for greater retention safety and reliability.

### SPECIFICATIONS

- Vinyl/Un-Insulated/Nylon Female Piggyback:** Electro tin plated copper with butter seam, Vinyl, 600V, 105 °F.
- Nylon Female Fully Insulated Sleeved Barrel:** Electro tin plated copper, Nylon, 600V, 105 °F. Female fully insulated quick disconnect with butted seam.
- Nylon Female Fully Insulated:** Female, fully insulated quick disconnect, Nylon, 600V, 105 °C.



| FIG. NO. | STYLE                                 | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | "S" PACKS        |     | PRO PACKS     |     | STD PACKS      |     | BULK PACKS          |      |
|----------|---------------------------------------|-----------------|------------|-----------|---------|------------------|-----------------|------------------|-----|---------------|-----|----------------|-----|---------------------|------|
|          |                                       |                 |            |           |         |                  |                 | CAT. NO.         | QTY | CAT. NO.      | QTY | CAT. NO.       | QTY | CAT. NO.            | QTY  |
| 1        | Female Piggyback                      | Vinyl           | 22-18      | 0.250     | cULus   | 0.826            | 0.259           | -                | -   | -             | -   | P22-250-3V     | 100 | P22-250-3V-BULK     | 1000 |
| 1        | Female Piggyback                      | Vinyl           | 16-14      | 0.250     | cULus   | 0.826            | 0.259           | P16-250-3V-S     | 15  | P16-250-3V-P  | 40  | P16-250-3V     | 100 | P16-250-3V-BULK     | 1000 |
| 1        | Female Piggyback                      | Vinyl           | 12-10      | 0.250     | UL      | 1.010            | 0.250           | -                | -   | -             | -   | P12-250-3V     | 50  | P12-250-3V-BULK     | 500  |
| 2        | Female Piggyback                      | Un-insulated    | 16-14      | 0.250     | -       | 0.677            | 0.295           | -                | -   | -             | -   | P16-250-3      | 100 | P16-250-3-BULK      | 1000 |
| 3        | Female Piggyback                      | Nylon           | 22-18      | 0.250     | cULus   | 0.866            | 0.259           | -                | -   | -             | -   | P22-250-3N     | 100 | P22-250-3N-BULK     | 1000 |
| 3        | Female Piggyback                      | Nylon           | 16-14      | 0.250     | cULus   | 0.866            | 0.259           | -                | -   | -             | -   | P16-250-3N     | 100 | P16-250-3N-BULK     | 1000 |
| 4        | Female Fully Insulated Sleeved Barrel | Nylon           | 22-18      | 0.110     | UL      | 0.800            | 0.230           | -                | -   | -             | -   | IFS22-110-2N   | 100 | IFS22-110-2N-BULK   | 1000 |
| 4        | Female Fully Insulated Sleeved Barrel | Nylon           | 22-18      | 0.110     | UL      | 0.800            | 0.230           | -                | -   | -             | -   | IFS22-110-3N   | 100 | IFS22-110-3N-BULK   | 1000 |
| 4        | Female Fully Insulated Sleeved Barrel | Nylon           | 22-18      | 0.250     | UL      | 0.890            | 0.380           | -                | -   | -             | -   | IFS22-250-3N   | 100 | IFS22-250-3N-BULK   | 1000 |
| 4        | Female Fully Insulated Sleeved Barrel | Nylon           | 16-14      | 0.250     | UL      | 0.890            | 0.380           | -                | -   | -             | -   | IFS16-250-3N   | 100 | IFS16-250-3N-BULK   | 1000 |
| 4        | Female Fully Insulated Sleeved Barrel | Nylon           | 12-10      | 0.250     | UL      | 1.040            | 0.380           | -                | -   | -             | -   | IFS12-250-3N   | 50  | IFS12-250-3N-BULK   | 500  |
| 5        | Female Fully Insulated                | Nylon           | 22-18      | 0.110     | UL      | 0.800            | 0.230           | -                | -   | -             | -   | IF22-110-2N    | 100 | IF22-110-2N-BULK    | 1000 |
| 5        | Female Fully Insulated                | Nylon           | 22-18      | 0.110     | UL      | 0.800            | 0.230           | -                | -   | -             | -   | IF22-110-3N    | 100 | IF22-110-3N-BULK    | 1000 |
| 5        | Female Fully Insulated                | Nylon           | 22-18      | 0.187     | UL      | 0.780            | 0.320           | -                | -   | -             | -   | IF22-187-2N    | 100 | IF22-187-2N-BULK    | 1000 |
| 5        | Female Fully Insulated                | Nylon           | 22-18      | 0.187     | UL      | 0.780            | 0.320           | -                | -   | -             | -   | IF22-187-3N    | 100 | IF22-187-3N-BULK    | 1000 |
| 5        | Female Fully Insulated                | Nylon           | 22-18      | 0.250     | cULus   | 0.866            | 0.259           | -                | -   | -             | -   | IF22-250-3N    | 100 | IF22-250-3N-BULK    | 1000 |
| 5        | Female Fully Insulated                | Nylon           | 16-14      | 0.187     | cULus   | 0.780            | 0.320           | -                | -   | -             | -   | IF16-187-2N    | 100 | IF16-187-2N-BULK    | 1000 |
| 5        | Female Fully Insulated                | Nylon           | 16-14      | 0.187     | UL      | 0.780            | 0.320           | -                | -   | -             | -   | IF16-187-3N    | 100 | IF16-187-3N-BULK    | 1000 |
| 5        | Female Fully Insulated                | Nylon           | 16-14      | 0.250     | cULus   | 0.866            | 0.259           | IF16-250-3N-S    | 12  | IF16-250-3N-P | 50  | IF16-250-3N    | 100 | IF16-250-3N-BULK    | 1000 |
| 5        | Female Fully Insulated                | Nylon           | 16-14      | 0.250     | -       | 0.955            | 0.395           | IF16-250-3N-IG-S | 10  | -             | -   | IF16-250-3N-IG | 100 | IF16-250-3N-IG-BULK | 1000 |
| 5        | Female Fully Insulated                | Nylon           | 12-10      | 0.250     | cULus   | 0.964            | 0.259           | IF12-250-3N-S    | 12  | IF12-250-3N-P | 30  | IF12-250-3N    | 50  | IF12-250-3N-BULK    | 500  |

# MINITERMS

## Female Flag & Fully Insulated Flag, Two Way Receptacle

IFL, SF, DFR Series

### SPECIFICATIONS

- **Nylon Female Flag:** Electro tin plated copper, 600V, 105 °C. Female flag style fully insulated quick disconnect.
- **Un-Insulated Female Flag:** Electro tin plated copper, 600V, 105 °C.
- **Nylon 2 Way Receptacle:** For use with male plug terminals with 0.157 plug.

### FEATURES

- Fully insulated female flag for use with 0.250 male quick disconnects.
- Un-insulated female flag with turned up edges for improved retention, safety and reliability.
- 2 way receptacle nylon insulated for use with 2 male plugs of 0.157 diameter.



| FIG. NO. | STYLE                       | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | "S" PACKS      |     | PRO PACKS      |     | STD PACKS     |     | BULK PACKS         |      |
|----------|-----------------------------|-----------------|------------|-----------|---------|------------------|-----------------|----------------|-----|----------------|-----|---------------|-----|--------------------|------|
|          |                             |                 |            |           |         |                  |                 | CAT. NO.       | QTY | CAT. NO.       | QTY | CAT. NO.      | QTY | CAT. NO.           | QTY  |
| 1        | Female Flag Fully Insulated | Nylon           | 22-18      | 0.250     | UL      | 0.630            | 0.236           | –              | –   | –              | –   | IFL22-250-3N  | 100 | IFL22-250-3N-BULK  | 1000 |
| 1        | Female Flag Fully Insulated | Nylon           | 16-14      | 0.250     | UL      | 0.630            | 0.390           | –              | –   | –              | –   | IFL16-250-3N  | 50  | IFL16-250-3N-BULK  | 1000 |
| 1        | Female Flag Fully Insulated | Nylon           | 12-10      | 0.250     | UL      | 0.667            | 0.311           | IFL12-250-3N-S | 12  | IFL12-250-3N-P | 30  | IFL12-250-3N  | 50  | IFL12-250-3N-BULK  | 500  |
| 2        | Female Flag                 | Un-insulated    | 22-18      | 0.250     | –       | 0.539            | 0.312           | –              | –   | –              | –   | SF22-250-3    | 100 | SF22-250-3-BULK    | 1000 |
| 2        | Female Flag                 | Un-insulated    | 16-14      | 0.187     | UL      | 0.539            | 0.312           | –              | –   | SF16-187-2-P   | –   | SF16-187-2    | 100 | SF16-187-2-BULK    | 1000 |
| 2        | Female Flag                 | Un-insulated    | 16-14      | 0.250     | –       | 0.539            | 0.312           | SF16-250-3-S   | 20  | –              | –   | SF16-250-3    | 100 | SF16-250-3-BULK    | 1000 |
| 2        | Female Flag                 | Un-insulated    | 12-10      | 0.250     | –       | 0.582            | 0.259           | SF12-250-3-S   | 15  | –              | –   | SF12-250-3    | 50  | SF12-250-3-BULK    | 1000 |
| 2        | Female Flag                 | Un-insulated    | 12-10      | 0.250     | –       | 0.570            | 0.320           | –              | –   | –              | –   | SF12-250-3-SP | 50  | SF12-250-3-SP-BULK | 1000 |
| 3        | 2 Way Receptacle            | Nylon           | n/a        | 0.157     | –       | –                | –               | –              | –   | –              | –   | DFR-157N      | 100 | DFR-157N-BULK      | 1000 |

# MINITERMS

## Female Disconnects: Piggyback, Sleeved Barrel & Insulated

F-V, F-N Series

### FEATURES

- Insulated, Un-insulated female disconnects leave turned up edges for increased retention, safety and reliability.

### SPECIFICATIONS

- Vinyl Female Flag:** Electro tin plated copper with butted seam, Vinyl, 600V, 105 °C. Female, quick disconnect.
- Un-Insulated Female Flag:** Electro tin plated copper with butted seam, 600V, 105 °F. Female quick disconnect.
- Nylon Female Flag:** Turned up edges give this quick disconnect adaptor more safety and reliability. 600V, 105 °C.



| FIG. NO. | STYLE  | INSULATION TYPE | WIRE RANGE | STUD SIZE | RATINGS | LENGTH (L) (IN.) | WIDTH (W) (IN.) | "S" PACKS    |     | PRO PACKS    |     | STD PACKS  |     | BULK PACKS      |      |
|----------|--------|-----------------|------------|-----------|---------|------------------|-----------------|--------------|-----|--------------|-----|------------|-----|-----------------|------|
|          |        |                 |            |           |         |                  |                 | CAT. NO.     | QTY | CAT. NO.     | QTY | CAT. NO.   | QTY | CAT. NO.        | QTY  |
| 1        | Female | Vinyl           | 22-18      | 0.110     | cULus   | 0.728            | 0.125           | —            | —   | —            | —   | F22-110-2V | 100 | F22-110-2V-BULK | 1000 |
| 1        | Female | Vinyl           | 22-18      | 0.110     | UL      | 0.789            | 0.170           | —            | —   | —            | —   | F22-110-3V | 100 | F22-110-3V-BULK | 1000 |
| 1        | Female | Vinyl           | 22-18      | 0.187     | cULus   | 0.748            | 0.196           | —            | —   | —            | —   | F22-187-2V | 100 | F22-187-2V-BULK | 1000 |
| 1        | Female | Vinyl           | 22-18      | 0.187     | UL      | 0.789            | 0.250           | —            | —   | —            | —   | F22-187-3V | 100 | F22-187-3V-BULK | 1000 |
| 1        | Female | Vinyl           | 22-18      | 0.250     | cULus   | 0.826            | 0.259           | F22-250-3V-S | 25  | F22-250-3V-P | 80  | F22-250-3V | 100 | F22-250-3V-BULK | 1000 |
| 1        | Female | Vinyl           | 16-14      | 0.110     | UL      | 0.789            | 0.170           | —            | —   | —            | —   | F16-110-2V | 100 | F16-110-2V-BULK | 1000 |
| 1        | Female | Vinyl           | 16-14      | 0.110     | UL      | 0.789            | 0.170           | —            | —   | —            | —   | F16-110-3V | 100 | F16-110-3V-BULK | 1000 |
| 1        | Female | Vinyl           | 16-14      | 0.187     | cULus   | 0.748            | 0.196           | F16-187-2V-S | 25  | —            | —   | F16-187-2V | 100 | F16-187-2V-BULK | 1000 |
| 1        | Female | Vinyl           | 16-14      | 0.187     | cULus   | 0.748            | 0.196           | —            | —   | —            | —   | F16-187-3V | 100 | F16-187-3V-BULK | 1000 |
| 1        | Female | Vinyl           | 16-14      | 0.250     | cULus   | 0.826            | 0.259           | F16-250-3V-S | 25  | F16-250-3V-P | 70  | F16-250-3V | 100 | F16-250-3V-BULK | 1000 |
| 1        | Female | Vinyl           | 12-10      | 0.250     | cULus   | 0.925            | 0.259           | F12-250-3V-S | 25  | F12-250-3V-P | 50  | F12-250-3V | 50  | F12-250-3V-BULK | 500  |
| 2        | Female | Un-insulated    | 22-18      | 0.110     | UL      | 0.550            | 0.150           | —            | —   | —            | —   | F22-110-2  | 100 | F22-110-2-BULK  | 1000 |
| 2        | Female | Un-insulated    | 22-18      | 0.110     | UL      | 0.554            | 0.150           | —            | —   | —            | —   | F22-110-3  | 100 | F22-110-3-BULK  | 1000 |
| 2        | Female | Un-insulated    | 22-18      | 0.187     | UL      | 0.565            | 0.233           | —            | —   | —            | —   | F22-187-2  | 100 | F22-187-2-BULK  | 1000 |
| 2        | Female | Un-insulated    | 22-18      | 0.187     | UL      | 0.565            | 0.233           | —            | —   | —            | —   | F22-187-3  | 100 | F22-187-3-BULK  | 1000 |
| 2        | Female | Un-insulated    | 22-18      | 0.250     | —       | 0.629            | 0.259           | —            | —   | F22-250-3-P  | 100 | F22-250-3  | 100 | F22-250-3-BULK  | 1000 |
| 2        | Female | Un-insulated    | 16-14      | 0.110     | UL      | 0.557            | 0.149           | —            | —   | —            | —   | F16-110-2  | 100 | F16-110-2-BULK  | 1000 |
| 2        | Female | Un-insulated    | 16-14      | 0.110     | —       | 0.531            | 0.125           | —            | —   | —            | —   | F16-110-3  | 100 | F16-110-3-BULK  | 1000 |
| 2        | Female | Un-insulated    | 16-14      | 0.187     | UL      | 0.556            | 0.233           | —            | —   | —            | —   | F16-187-2  | 100 | F16-187-2-BULK  | 1000 |
| 2        | Female | Un-insulated    | 16-14      | 0.187     | UL      | 0.559            | 0.233           | —            | —   | —            | —   | F16-187-3  | 100 | F16-187-3-BULK  | 1000 |
| 2        | Female | Un-insulated    | 16-14      | 0.250     | —       | 0.629            | 0.259           | —            | —   | F16-250-3-P  | 125 | F16-250-3  | 100 | F16-250-3-BULK  | 1000 |
| 2        | Female | Un-insulated    | 12-10      | 0.250     | —       | 0.669            | 0.259           | —            | —   | —            | —   | F12-250-3  | 50  | F12-250-3-BULK  | 500  |
| 3        | Female | Nylon           | 22-18      | 0.110     | —       | 0.789            | 0.163           | —            | —   | —            | —   | F22-110-2N | 100 | F22-110-2N-BULK | 1000 |
| 3        | Female | Nylon           | 22-18      | 0.110     | UL      | 0.789            | 0.210           | —            | —   | —            | —   | F22-110-3N | 100 | F22-110-3N-BULK | 1000 |
| 3        | Female | Nylon           | 22-18      | 0.187     | UL      | 0.789            | 0.125           | —            | —   | —            | —   | F22-187-2N | 100 | F22-187-2N-BULK | 1000 |
| 3        | Female | Nylon           | 22-18      | 0.187     | UL      | 0.789            | 0.125           | —            | —   | —            | —   | F22-187-3N | 100 | F22-187-3N-BULK | 1000 |
| 3        | Female | Nylon           | 22-18      | 0.250     | cULus   | 0.866            | 0.259           | —            | —   | —            | —   | F22-250-3N | 100 | F22-250-3N-BULK | 1000 |
| 3        | Female | Nylon           | 16-14      | 0.110     | UL      | 0.789            | 0.163           | —            | —   | —            | —   | F16-110-2N | 100 | F16-110-2N-BULK | 1000 |
| 3        | Female | Nylon           | 16-14      | 0.110     | UL      | 0.789            | 0.163           | —            | —   | —            | —   | F16-110-3N | 100 | F16-110-3N-BULK | 1000 |
| 3        | Female | Nylon           | 16-14      | 0.187     | UL      | 0.789            | 0.238           | —            | —   | —            | —   | F16-187-2N | 100 | F16-187-2N-BULK | 1000 |
| 3        | Female | Nylon           | 16-14      | 0.187     | cULus   | 0.787            | 0.196           | —            | —   | —            | —   | F16-187-3N | 100 | F16-187-3N-BULK | 1000 |
| 3        | Female | Nylon           | 16-14      | 0.250     | cULus   | 0.866            | 0.259           | —            | —   | —            | —   | F16-250-3N | 100 | F16-250-3N-BULK | 1000 |
| 3        | Female | Nylon           | 12-10      | 0.250     | cULus   | 0.944            | 0.259           | —            | —   | —            | —   | F12-250-3N | 50  | F12-250-3N-BULK | 500  |



# MINITERMS

## Vinyl Insulated Miniterm Kit

MTK, MTK-2

### SPECIFICATIONS

- cULus Listed for Quick Connect Terminals.
- cULus Listed Wire Connector.
- Vinyl Insulated: 300V, 75 °C.
- Nylon Insulated: 600V, 105 °C.

### FEATURES

- These kits have been carefully designed to include the most popular NSI miniterm terminals.
- Cases are reusable and made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Crimping tool included with MTK-2



| CAT. NO. | FIG. NO. | KIT CONTENTS |      |            |      |                        |      | STD. CTN. QTY. |
|----------|----------|--------------|------|------------|------|------------------------|------|----------------|
|          |          | PART NO.     | QTY. | PART NO.   | QTY. | PART NO.               | QTY. |                |
| MTK      | 1        | R22-6V       | 40   | F22-250-3V | 40   | S22-6V                 | 40   | 12             |
|          |          | R22-10V      | 40   | F16-250-3V | 35   | S22-10V                | 35   |                |
|          |          | R16-6V       | 30   | F12-250-3V | 20   | S16-6V                 | 20   |                |
|          |          | R16-10V      | 30   | B22-V      | 35   | S16-10V                | 35   |                |
|          |          | R12-8V       | 20   | B16-V      | 25   | S12-8V                 | 25   |                |
|          |          | R12-14V      | 20   | B12-V      | 15   | S12-14V                | 15   |                |
| MTK-2    | 2        | R22-6V       | 10   | S22-8V     | 10   | B22-V                  | 10   | 12             |
|          |          | R22-8V       | 10   | S22-10V    | 10   | B16-V                  | 10   |                |
|          |          | R22-10V      | 10   | S16-8V     | 10   | B12-V                  | 10   |                |
|          |          | R16-6V       | 10   | S16-10V    | 10   | F22-250-3V             | 10   |                |
|          |          | R16-8V       | 10   | S12-10V    | 5    | F16-250-3V             | 10   |                |
|          |          | R16-10V      | 10   | M22-250-3V | 10   | Crimping tool included | 1    |                |
|          |          | R12-10V      | 5    | M16-250-3V | 10   |                        |      |                |

# MINITERMS

## Vinyl Insulated Miniterm Kit

MTKL-100



### SPECIFICATIONS

- cULus Listed for Quick Connect Terminals.
- cULus Listed Wire Connector.
- Vinyl insulated 300V, 75 °C.

### FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are reusable and made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy identification.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Product number ending in "N" is nylon insulated.
- Crimping tool included.
- Product number starting with "R" is Ring type.
- Product number starting with "S" is Spade type.
- Product number starting with "M" is Male disconnect type.
- Product number starting with "F" is Female disconnect type.
- Product number starting with "B" is Butt splice type.



| CAT. NO. | KIT CONTENTS |      |          |      |            |      | STD. CTN. QTY. |
|----------|--------------|------|----------|------|------------|------|----------------|
|          | PART NO.     | QTY. | PART NO. | QTY. | PART NO.   | QTY. |                |
| MTKL-100 | TL-5-1       | 1    | C12-N    | 2    | M12-250-3V | 2    | 5              |
|          | R12-10V      | 5    | C16-N    | 4    | M16-250-3V | 2    |                |
|          | R16-10V      | 10   | C2-N     | 5    | M22-250-3V | 2    |                |
|          | R22-10V      | 10   | B12-V    | 6    | F12-250-3V | 2    |                |
|          | S12-10V      | 5    | B16-V    | 10   | F16-250-3V | 2    |                |
|          | S16-10V      | 10   | B22-V    | 10   | F22-250-3V | 2    |                |
|          | S22-10V      | 10   |          |      |            |      |                |

# MINITERMS

## Vinyl Insulated Miniterm Kit

MTK-175



### SPECIFICATIONS

- cULus Listed for Quick Connect Terminals.
- cULus Listed Wire Connector.
- Vinyl Insulated: 300V, 75 °C.

### FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are reusable and made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Product number starting with "B" is Butt type.
- Product number starting with "R" is Ring type.
- Product number starting with "S" is Spade type.
- Product number starting with "M" is Male disconnect type.
- Product number starting with "F" is Female disconnect type.



| CAT. NO. | KIT CONTENTS |      |          |      |            |      | STD. CTN. QTY. |
|----------|--------------|------|----------|------|------------|------|----------------|
|          | PART NO.     | QTY. | PART NO. | QTY. | PART NO.   | QTY. |                |
| MTK-175  | B12-V        | 4    | R16-6V   | 11   | S16-10V    | 11   | 5              |
|          | B16-V        | 11   | R16-8V   | 11   | S22-8V     | 11   |                |
|          | B22-V        | 11   | R16-10V  | 11   | S22-10V    | 11   |                |
|          | R12-10V      | 4    | R16-14V  | 9    | M16-250-3V | 11   |                |
|          | R12-38V      | 4    | S16-6V   | 11   | F16-250-3V | 11   |                |
|          | R22-10V      | 11   | S16-8V   | 11   | F22-250-3V | 11   |                |

# MINITERMS

## Vinyl Insulated Miniterm Kit

MTK-2218, MTK-1614, MTK-1210

### SPECIFICATIONS

- cULus Listed for Quick Connect Terminals.
- cULus Listed Wire Connector.

### FEATURES

- These kits have been carefully designed to include the most popular NSi miniterm terminals.
- Cases are reusable and made of extremely durable polypropylene.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition.
- Convenient size for easy carrying and easy storing.
- Product number ending in "V" is vinyl insulated.
- Product number ending in "N" is nylon insulated.



| CAT. NO. | FIG. NO. | KIT CONTENTS |      |             |      |             |      | STD. CTN. QTY. |
|----------|----------|--------------|------|-------------|------|-------------|------|----------------|
|          |          | PART NO.     | QTY. | PART NO.    | QTY. | PART NO.    | QTY. |                |
| MTK-2218 | 1        | R22-6V       | 6    | S22-8V      | 6    | IF22-250-3V | 2    | 10             |
|          | 1        | R22-8V       | 6    | B22-V       | 6    | M22-250-3V  | 6    |                |
|          | 1        | S22-6V       | 6    | IM22-250-3V | 2    | F22-250-3V  | 6    |                |
| MTK-1614 | 2        | R16-6V       | 6    | F16-250-3V  | 6    | B16-V       | 6    | 10             |
|          | 2        | R16-8V       | 6    | S16-6V      | 6    | IM16-250-3N | 3    |                |
|          | 2        | M16-250-3V   | 6    | S16-8V      | 6    | IF16-250-3N | 3    |                |
| MTK-1210 | 3        | R12-8V       | 4    | F12-250-3V  | 4    | B12-V       | 4    | 10             |
|          | 3        | R12-14V      | 2    | M12-250-3V  | 4    | IM12-250-3N | 2    |                |
|          | 3        | R12-38V      | 2    | S12-8V      | 4    | IF12-250-3N | 2    |                |

# MINITERMS

## Push-On & Compressor (With Wire) Terminal Kit

CTK-1, NSi 33-12

### SPECIFICATIONS

- cULus Listed for Quick Connect Terminals.
- cULus Listed Wire Connector.
- Vinyl Insulated: 300V, 75 °C.
- Nylon Insulated: 600V, 105 °C.

### FEATURES

#### PUSH-ON

- Kit converts screw type terminals to push-on type.
- Contains four screws on terminal adapters.

#### COMPRESSOR (WITH WIRE)

- Kit includes three color coded #10 AWG type AWM extra flexible lead wires (10" lengths).
- One end has a 0.250" by 0.032" female tab 12-10 quick disconnect, and the other is stripped at 5/16".

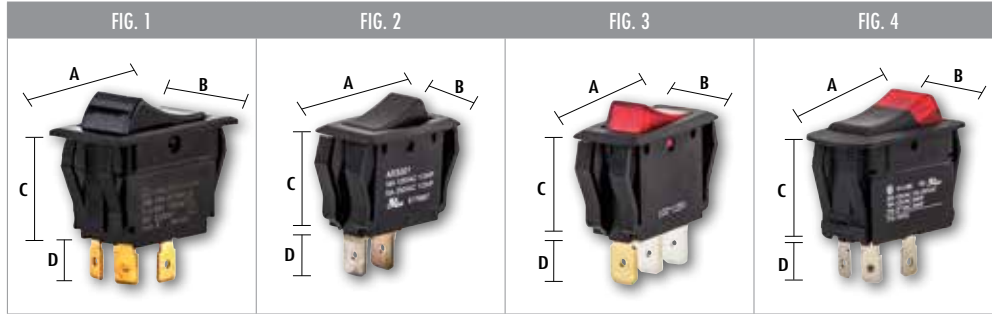
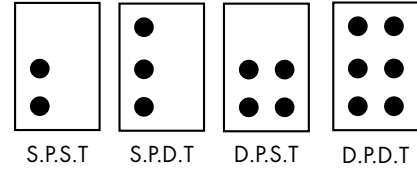


| CAT. NO.  | FIG. NO. | KIT CONTENTS   | STD. CTN. QTY. |
|-----------|----------|--|----------------|
| CTK-1     | 1        | 4 Screw type terminal adapters with 4 screws                                 | 100            |
| NSi 33-12 | 2        | 3 color coded wires and includes three 12-10 AWG shrink tube butt connectors | 1              |

# SWITCHES

## Rocker Switches

### TERMINAL POSITIONS



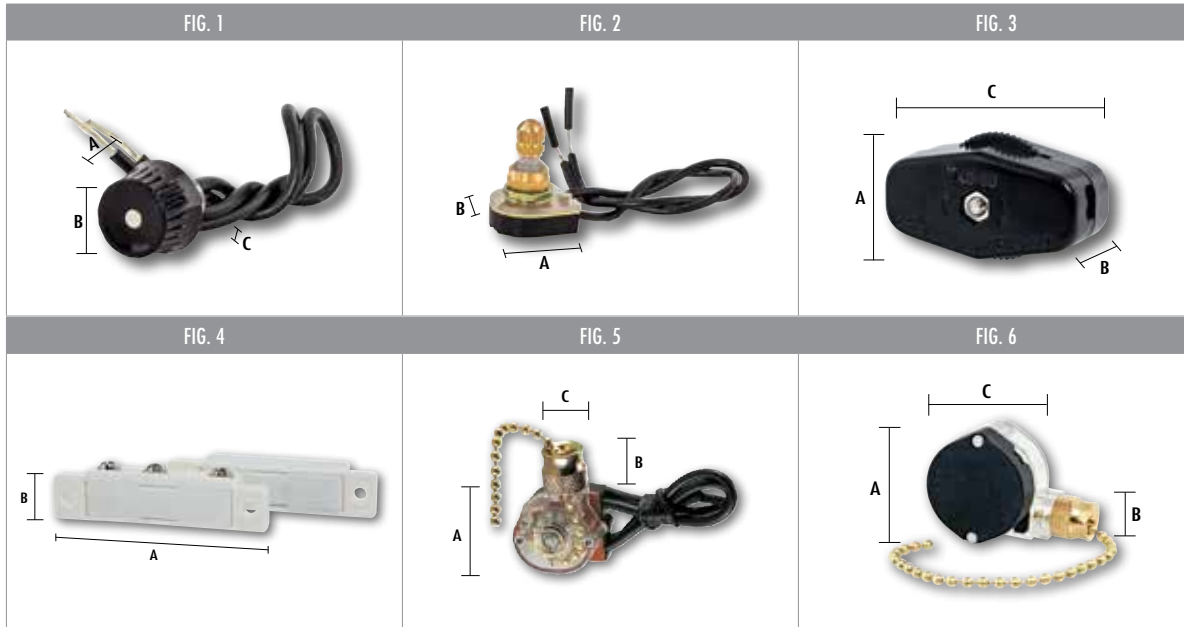
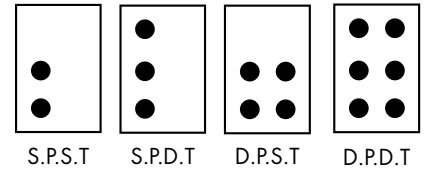
| CAT. NO.        | FIG. NO. | CIRCUIT FUNC. | POLES & THROWS | RATINGS     |             |                    | VOLTAGE      | LAMP COLOR | ACTR. CONTACT | CONNECTION TYPE   | STD. CTN. QTY. |
|-----------------|----------|---------------|----------------|-------------|-------------|--------------------|--------------|------------|---------------|-------------------|----------------|
|                 |          |               |                | AMPS 125VAC | AMPS 250VAC | HP 125-250VAC      |              |            |               |                   |                |
| 77010RQ         | 1        | ON-OFF        | DPST           | 20          | 10          | 1 1/2 @125,2 @ 250 | Non-Lighted  | Black      | Maintained    | 0.250 Quikconnect | 5              |
| 77040RQ         | 1        | ON-ON         | DPDT           | 20          | 10          | 1 1/2 @125,2 @ 250 | Non-Lighted  | Black      | Maintained    | 0.250 Quikconnect | 5              |
| 77060RQ         | 1        | ON-OFF-ON     | DPDT           | 20          | 10          | 1 1/2 @125,2 @ 250 | Non-Lighted  | Black      | Maintained    | 0.250 Quikconnect | 5              |
| 77130RQ         | 1        | (ON) OFF (ON) | DPDT           | 15          | 10          | 3/4                | Non-Lighted  | Black      | Momentary     | 0.250 Quikconnect | 5              |
| Dimensions (IN) | 1        | A: 1.348      | B: 0.750       | C: 0.762    | D: 0.422    |                    |              |            |               |                   |                |
| 77140RQ (cRUus) | 2        | ON-OFF        | SPST           | 15          | 10          | -                  | Non-Lighted  | Black      | Maintained    | 0.250 Quikconnect | 5              |
| Dimensions (IN) | 2        | A: 1.250      | B: 0.625       | C: 0.828    | D: 0.406    |                    |              |            |               |                   |                |
| 77150RQ         | 3        | ON-OFF        | SPST           | 15          | 7.5         | -                  | -            | Red        | Maintained    | 0.250 Quikconnect | 5              |
| Dimensions (IN) | 3        | A: 1.231      | B: 0.713       | C: 0.812    | D: 0.414    |                    |              |            |               |                   |                |
| 77030RQ         | 4        | ON-OFF        | DPST           | 15          | 10          | 3/4 @ 250          | 125V Incand. | Red        | Maintained    | 0.250 Quikconnect | 5              |
| 77020RQ         | 4        | ON-OFF        | DPST           | 15          | 10          | 3/4 @ 250          | 125V Neon    | Amber      | Maintained    | 0.250 Quikconnect | 5              |
| Dimensions (IN) | 4        | A: 0.426      | B: 1.088       | C: 0.709    | D: 0.345    |                    |              |            |               |                   |                |

( ) = Momentary Position.

# SWITCHES

## Rotary Switches & Miscellaneous

### TERMINAL POSITIONS



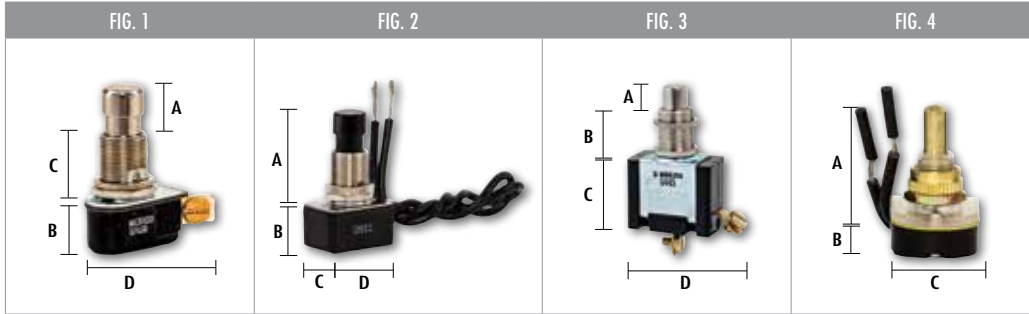
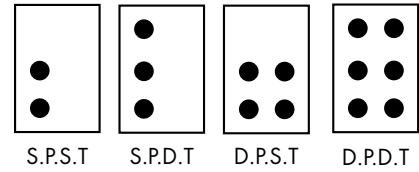
| CAT. NO.        | FIG. NO. | CIRCUIT FUNC. | POLES & THROWS | AMPS 125VAC | RATINGS AMPS 250VAC | HP 125-250VAC | VOLTAGE       | LAMP COLOR | ACTR. CONTACT        | CONNECTION TYPE | STD. CTN. QTY. |
|-----------------|----------|---------------|----------------|-------------|---------------------|---------------|---------------|------------|----------------------|-----------------|----------------|
| 77300RW         | 1        | ON-OFF        | SPST           | 3           | 1                   | Non-Lighted   | Rotary Canopy | —          | Maintained           | Wire Leads      | 5              |
| Dimensions (IN) | 1        | A: 0.718      | B: 0.600       | C: 0.265    |                     |               |               |            |                      |                 |                |
| 77340RW         | 2        | ON-OFF        | SPST           | 6           | 3                   | Non-Lighted   | Rotary Canopy | —          | Maintained           | Wire Leads      | 5              |
| 77320RW         | 2        | OFF-ON-ON-ON  | SPST           | 3           | 1                   | Non-Lighted   | Rotary Canopy | —          | Maintained           | Wire Leads      | 5              |
| Dimensions (IN) | 2        | A: 1.000      | B: 0.844       |             |                     |               |               |            |                      |                 |                |
| 79100MS         | 3        | ON-OFF        | SPST           | 6           | 3                   | —             | —             | —          | Feed Through Switch  | Screws          | 5              |
| Dimensions (IN) | 3        | A: 0.844      | B: 0.594       | C: 1.375    |                     |               |               |            |                      |                 |                |
| 79200MS         | 4        | N.C. & N.O.   | SPDT           | 5           | —                   | —             | —             | —          | Magnetic Feed Switch | Screws          | 5              |
| Dimensions (IN) | 4        | A: 2.500      | B: 0.531       |             |                     |               |               |            |                      |                 |                |
| 75101CW (cRUus) | 5        | ON-OFF        | SPST           | 6           | 3                   | —             | Chain W/Cord  | Brass      | —                    | Wire Leads      | 5              |
| 75102CW (cRUus) | 5        | ON-OFF        | SPST           | 6           | 3                   | —             | Chain W/Cord  | Nickel     | —                    | Wire Leads      | 5              |
| Dimensions (IN) | 5        | A: 1.250      | B: 0.781       | C: 0.594    |                     |               |               |            |                      |                 |                |
| 75110CW (cRUus) | 3        | Way/2 Circuit | SP3T           | 6           | 3                   | —             | Chain W/Cord  | Brass      | —                    | Wire Leads      | 5              |
| 75111CQ (cRUus) | 6        | OFF-ON-ON-ON  | SP3T           | 6           | 3                   | —             | Chain W/Cord  | Brass      | —                    | Push In         | 5              |
| Dimensions (IN) | 6        | A: 1.250      | B: 1.125       | C: 0.742    |                     |               |               |            |                      |                 |                |



# SWITCHES

## Pushbutton Switches

### TERMINAL POSITIONS

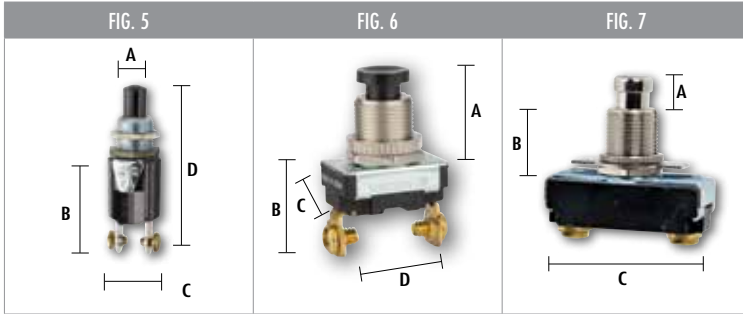
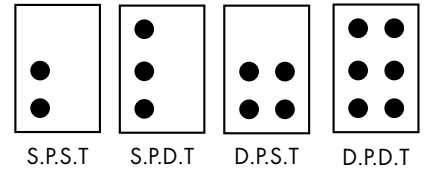


| CAT. NO.        | FIG. NO. | CIRCUIT FUNC.     | POLES & THROWS | RATINGS     |             |               | ACTUATOR STYLE | ACTUATOR MATERIAL | ACTR. CONTACT | CONN. TYPE | STD. CTN. QTY. |
|-----------------|----------|-------------------|----------------|-------------|-------------|---------------|----------------|-------------------|---------------|------------|----------------|
|                 |          |                   |                | AMPS 125VAC | AMPS 250VAC | HP 125-250VAC |                |                   |               |            |                |
| 76050PS         | 1        | PUSH-ON, PUSH-OFF | SPST           | 6*          | 3*          | —             | Pushbutton     | Brass/Nickel      | Maintained    | Screws     | 5              |
| 76040PW         | 1        | PUSH ON, PUSH OFF | SPST           | 6           | 3           | 1/3 @125      | Pushbutton     | Brass/Nickel      | Maintained    | Wire Leads | 5              |
| Dimensions (IN) | 1        | A: 0.437          | A: 0.562       | C: 0.542    | D: 1.183    | —             | —              | —                 | —             | —          | —              |
| 76010PW         | 2        | PUSH ON, PUSH OFF | SPST           | 10          | 5           | 1/4 @125      | Pushbutton     | Nylon             | Maintained    | Wire Leads | 5              |
| Dimensions (IN) | 2        | A: 1.003          | B: 0.612       | C: 0.550    | D: 0.993    | —             | —              | —                 | —             | —          | —              |
| 76060PS         | 3        | PUSH ON, PUSH OFF | SPST           | 15          | 10          | —             | Pushbutton     | Brass/Nickel      | Maintained    | Screws     | 5              |
| Dimensions (IN) | 3        | A: 0.283          | B: 0.562       | C: 0.982    | D: 1.125    | —             | —              | —                 | —             | —          | —              |
| 76055PS         | 4        | ON-OFF            | SPST           | 6           | 3           | —             | Pushbutton     | Brass             | Maintained    | Wire Leads | 1              |
| 76056PS         | 4        | ON-OFF            | SPST           | 6           | 3           | —             | Pushbutton     | Nickel            | Maintained    | Wire Leads | 1              |
| 76090PW         | 4        | ON-OFF            | SPST           | 6           | 3           | —             | Push Canopy    | Brass             | Maintained    | Wire Leads | 5              |
| 76100PW         | 4        | ON-OFF            | SPST           | 6           | 3           | —             | Push Canopy    | Bickel            | Maintained    | Wire Leads | 5              |
| Dimensions (IN) | 4        | A: 0.968          | B: 0.313       | C: 0.858    | —           | —             | —              | —                 | —             | —          | —              |

# SWITCHES

## Pushbutton Switches Cont'd

### TERMINAL POSITIONS



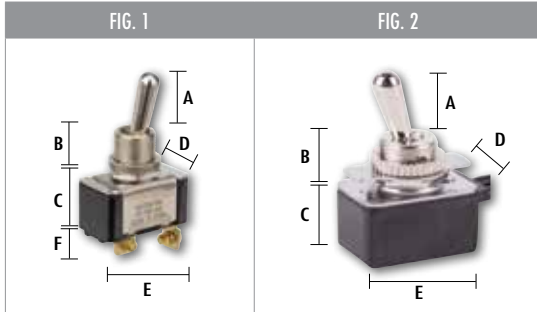
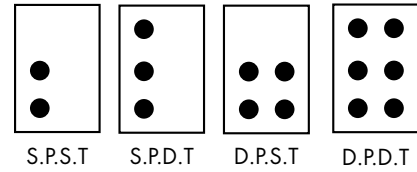
| CAT. NO.        | FIG. NO. | CIRCUIT FUNC. | POLES & THROWS | AMPS 125VAC | RATINGS AMPS 250VAC | HP 125-250VAC | ACTUATOR STYLE | ACTUATOR MATERIAL | CONTACT   | CONN. TYPE | STD. CTN. QTY. |
|-----------------|----------|---------------|----------------|-------------|---------------------|---------------|----------------|-------------------|-----------|------------|----------------|
| 76020PS         | 5        | OFF(O.N)      | SPST N.O.      | 3/4         | 1/4                 | —             | Pushbutton     | Nylon             | Momentary | Screws     | 5              |
| 76030PS         | 5        | ON (OFF)      | SPST N.C.      | 3/4         | 1/4                 | —             | Pushbutton     | Nylon             | Momentary | Screws     | 5              |
| Dimensions (IN) | 5        | A: 0.460      | B: 1.070       | C: 0.650    | D: 1.950            | —             | —              | —                 | —         | —          | —              |
| 76065PS         | 6        | OFF(O.N)      | SPST N.O.      | 3           | —                   | —             | Pushbutton     | Plastic           | Momentary | Screws     | 5              |
| Dimensions (IN) | 6        | A: .689       | B: 1.406       | C: .563     | D: .875             | —             | —              | —                 | —         | —          | —              |
| 76070PS         | 7        | OFF(O.N)      | SPST N.O.      | 15          | 10                  | —             | Pushbutton     | Brass/Nickel      | Momentary | Screws     | 5              |
| 76080PS         | 7        | ON (OFF)      | SPST N.C.      | 15          | 10                  | —             | Pushbutton     | Brass/Nickel      | Momentary | Screws     | 5              |
| Dimensions (IN) | 7        | A: .576       | B: .562        | C: 1.382    | —                   | —             | —              | —                 | —         | —          | —              |

( ) = Momentary Position. N.O. = Normally Open. N.C. = Normally Closed.

# SWITCHES

## Toggle Switches: Maintained Contact Single Pole

### TERMINAL POSITIONS

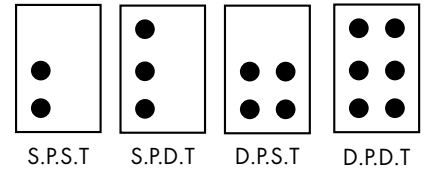


| CAT. NO.        | FIG. NO. | CIRCUIT FUNC. | POLES & THROWS | RATINGS     |             |               | ACTUATOR STYLE   | ACTUATOR MATERIAL      | CONN. TYPE             | STD. CTN. QTY. |
|-----------------|----------|---------------|----------------|-------------|-------------|---------------|------------------|------------------------|------------------------|----------------|
|                 |          |               |                | AMPS 125VAC | AMPS 250VAC | HP 125-250VAC |                  |                        |                        |                |
| 78110TS         | 1        | OFF-ON        | SPST           | 6           | 3           | —             | Bat              | Brass/Nickel           | Screws                 | 5              |
| 78120TQ         | 1        | OFF-ON        | SPST           | 20          | 10          | 3/4           | Bat              | Brass/Nickel           | 0.250 Quikconnect      | 5              |
| 78210TS         | 1        | OFF-ON        | SPST           | 20          | 10          | 3/4           | Bat              | Brass/Nickel           | Screws                 | 5              |
| 78200TS         | 1        | ON-ON         | SPDT           | 20          | 10          | 3/4           | Bat              | Brass/Nickel           | Screws                 | 5              |
| 78160TS         | 1        | ON-OFF-ON     | SPDT           | 20          | 10          | 3/4           | Bat              | Brass/Nickel           | Screws                 | 5              |
| 78070TQ         | 1        | ON-OFF-ON     | SPDT           | 20          | 10          | 3/4           | Bat              | Brass/Nickel           | 0.250 Quikconnect      | 5              |
| Dimensions (in) | 1        | A: .687       | B: .465        | C: .670     | D: .348     | E: 1.134      | F: .634          | THREAD: 15/32-32UNS-2A | KEYWAY: .072 X .038 DP |                |
| 78150TW         | 2        | ON-OFF        | SPST           | 10*         | 4*          | 1/3           | Bat              | Brass/Nickel           | Wire Leads             | 5              |
| Dimensions (IN) | 2        | A: .500       | B: .469        | C: .685     | D: 1.093    | E: 1.856      | THREAD: 15/32-32 |                        | STANDARD 6" WIRE LEADS |                |

# SWITCHES

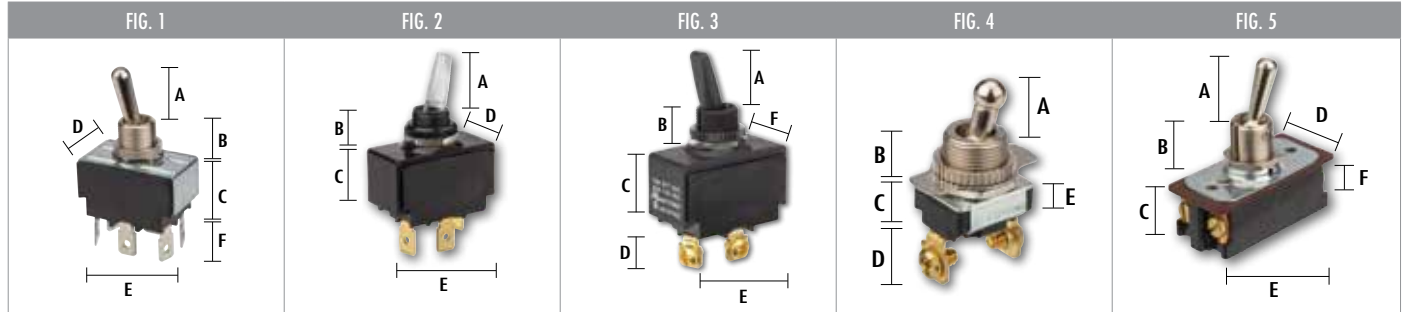
## Toggle Switches: Maintained Contact Single & Double Pole

### TERMINAL POSITIONS



### FEATURES

- \*Amperage and voltage are also valid for D.C. Rating.
- \*\*Lighted toggle and Poly (Polycarbonate).



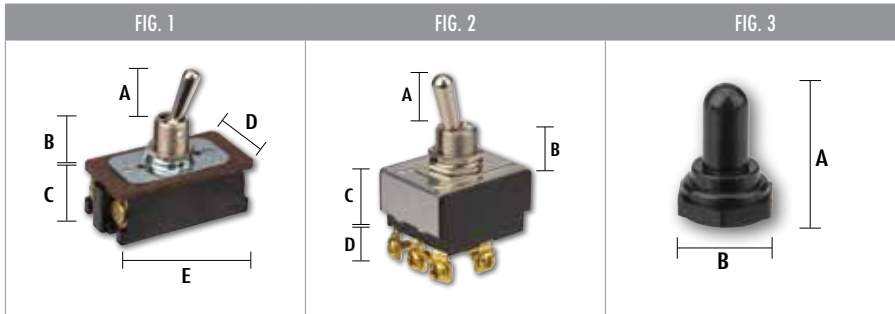
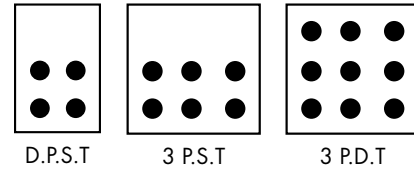
| CAT. NO.        | FIG. NO. | CIRCUIT FUNCTIONS | POLES & THROWS | AMPS 125VAC | RATINGS<br>AMPS 250VAC | H.P.<br>125-250VAC | ACTUATOR STYLE         | ACTUATOR MATERIAL        | ACTR. CONTACT         | CONN. TYPE        | STD. CTN. QTY. |
|-----------------|----------|-------------------|----------------|-------------|------------------------|--------------------|------------------------|--------------------------|-----------------------|-------------------|----------------|
| 78220TS         | 1        | ON-OFF            | DPST           | 20          | 10                     | 3/4                | Bat                    | Brass/Nickel             | -                     | Screws            | 5              |
| 78130TQ         | 1        | ON-OFF            | DPST           | 20          | 10                     | 3/4                | Bat                    | Brass/Nickel             | -                     | 0.250 Quikconnect | 5              |
| 78090TQ         | 1        | ON-ON             | DPDT           | 15          | 10                     | -                  | Bat                    | Brass/Nickel             | -                     | 0.250 Quikconnect | 5              |
| 78270TS         | 1        | ON-ON             | DPDT           | 20          | 10                     | 1½@125.2@250       | Bat                    | Brass/Nickel             | -                     | Screws            | 5              |
| 78230TS         | 1        | ON-OFF-ON         | DPDT           | 10          | 20                     | 1 1/2              | Bat                    | Brass/Nickel             | -                     | Screws            | 5              |
| 78240TS         | 1        | OFF(ON)           | DPST           | 15          | 10                     | 3/4                | Bat                    | Brass/Nickel             | Momentary             | Screws            | 5              |
| 78250TS         | 1        | ON-OFF-(ON)       | DPDT           | 15          | 10                     | 3/4                | Bat                    | Brass/Nickel             | Momentary             | Screws            | 5              |
| 78260TS         | 1        | (ON)-OFF-(ON)     | DPDT           | 15          | 10                     | 3/4                | Bat                    | Brass/Nickel             | Momentary             | Screws            | 5              |
| Dimensions (IN) | 1        | A: 0.687          | B: 0.465       | C: 0.778    | D: 0.750               | E: 1.308           | F: 0.422               | THREAD: 15/32-32UNS-2A   | KEYWAY: 0.072 X 0.038 |                   |                |
| 78065TS         | 2        | ON-OFF            | SPST           | 6           | 3                      | -                  | Bat                    | Nickel                   | -                     | Screws            | 5              |
| 78040TQ         | 2        | ON-OFF            | SPST           | 15*         | 10*                    | 3/4                | Flat                   | Poly. (Red)**            | -                     | 0.250 Quikconnect | 5              |
| Dimensions (IN) | 2        | A: 0.715          | B: 0.379       | C: 0.865    | D: 0.750               | E: 0.422           | THREAD: 15/32-32UNS-2A | KEYWAY: 0.072 X 0.038 DP |                       |                   |                |
| 78280TS         | 3        | ON-OFF            | SPST           | 16*         | 8*                     | 1                  | Bat                    | Brass/Nickel             | -                     | Screws            | 5              |
| 78015TS         | 3        | ON-OFF            | SPST           | 20          | 10                     | -                  | Flat                   | Nylon                    | -                     | Screws            | 5              |
| Dimensions (IN) | 3        | A: 0.687          | B: 0.280       | C: 0.687    | D: 0.375               | E: 1.000           | F: 0.588               | KEYWAY: 0.072 X 0.038    |                       |                   |                |
| 78050TQ         | 4        | ON-OFF            | SPST           | 20          | 10                     | 3/4                | Bat                    | Brass/Nickel             | -                     | 0.250 Quikconnect | 5              |
| 78130TS         | 4        | ON-OFF            | SPST           | 6           | 3                      | -                  | Ball                   | Brass/Nickel             | -                     | Screws            | 5              |
| 78150TS         | 4        | ON-OFF            | SPST           | 20          | 10                     | 3/4                | Spade                  | Brass/Nickel             | -                     | Screws            | 5              |
| Dimensions (IN) | 4        | A: 0.687          | B: 0.465       | C: 0.585    | D: 0.522               | E: 0.312           | THREAD: 15/32-32UNS-2A | KEYWAY: 0.072 X 0.038    |                       |                   |                |
| 78290TS         | 5        | ON-OFF            | DPST           | 16*         | 8*                     | 1                  | Bat                    | Brass/Nickel             | -                     | Screws            | 5              |
| Dimensions (IN) | 5        | A: 0.687          | B: 0.465       | C: 0.765    | D: 0.836               | E: 1.750           | F: 1.764               | THREAD: 15/32-32UNS-2A   | KEYWAY: 0.072 X 0.038 |                   |                |

( ) = Momentary Position.

# SWITCHES

## Toggle Switches

### TERMINAL POSITIONS



| CAT. NO.        | FIG. NO. | CIRCUIT FUNC.       | POLES & THROWS | RATINGS     |             |               | ACTUATOR STYLE | ACTUATOR MATERIAL | CONN. TYPE | STD. CTN. QTY. |
|-----------------|----------|---------------------|----------------|-------------|-------------|---------------|----------------|-------------------|------------|----------------|
|                 |          |                     |                | AMPS 125VAC | AMPS 250VAC | HP 125-250VAC |                |                   |            |                |
| 78300TS         | 1        | ON-OFF              | DPST           | 20*         | 10*         | 1 1/2         | Bot            | Brass/Nickel      | Screws     | 5              |
| Dimensions (IN) | 1        | A: 0.687            | B: 0.465       | C: 0.895    | D: 1.000    | E: 2.093      |                |                   |            |                |
| 78310TS         | 2        | ON-OFF              | 3PST           | 15          | 10          | 3/4 @ 250     | Bot            | Brass/Nickel      | Screws     | 5              |
| 78315TS         | 2        | ON-OFF-ON           | 3PDT           | 15          | 10          | 3/4 @ 250     | Bot            | Brass/Nickel      | Screws     | 5              |
| Dimensions (IN) | 2        | A: 0.688            | B: 0.469       | C: 0.965    | D: 0.300    | THREAD: 15/32 |                |                   |            |                |
| 79300MS         | 3        | Toggle Switch Boots |                | -           | -           | -             | -              | -                 | -          | 2              |
| Dimensions (IN) | 3        | A: 0.950            | B: 0.812       |             |             |               |                |                   |            |                |

# SWITCHES

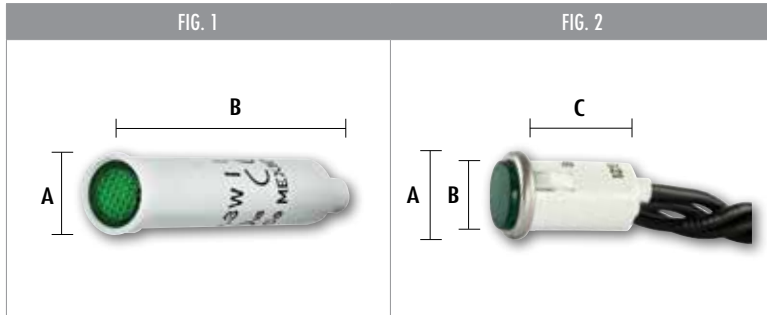
## Round Indicator Lights With Non-Replaceable Lamps

### SPECIFICATIONS

- 125 Volts Rated.

### FEATURES

- High quality indicator lights made of nylon with polycarbonate lens material and neon lamps.
- Connection with 6 inch wire leads.
- More styles and finishes available.
- Available with incandescent lamps.



| CAT. NO.        | FIG. NO. | PANEL CUTOUT | PANEL THICKNESS | LENS STYLE | LENS COLOR | LENS TYPE | BEZEL COLOR | TYPE OF FIT | MTNG. HOLE DIA. | STD. CTN. QTY. |
|-----------------|----------|--------------|-----------------|------------|------------|-----------|-------------|-------------|-----------------|----------------|
| 79710LW         | 1        | 0.312        | 0.030 Min.      | Flush      | Green      | Diamond   | White       | Press       | 0.312           | 5              |
| 79720LW         | 1        | 0.312        | 0.030 Min.      | Flush      | Red        | Diamond   | White       | Press       | 0.312           | 5              |
| Dimensions (IN) | 1        | A: 0.130     | B: 1.430        |            |            |           |             |             |                 |                |
| 79740LW         | 2        | 0.500        | 0.030 - .093    | 0.09 Cyl   | Green      | Diamond   | Stainless   | Press       | 0.500           | 5              |
| 79750LW         | 2        | 0.500        | 0.030 - .093    | 0.09 Cyl   | Red        | Diamond   | Chrome      | Press       | 0.500           | 5              |
| 79755LW         | 2        | 0.500        | 0.030 - .093    | 0.09 Cyl   | Amber      | Diamond   | Stainless   | Press       | 0.500           | 5              |
| Dimensions (IN) | 2        | A: 0.210     | B: 0.100        | C: 0.910   |            |           |             |             |                 |                |

# SWITCHES

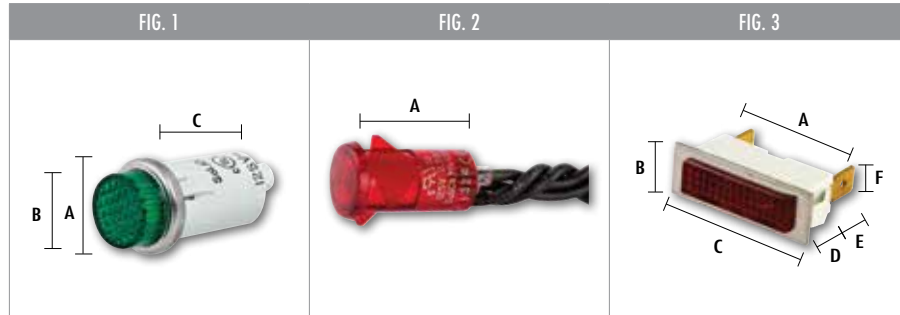
## Round & Snap-In Rectangular Indicator Lights

### SPECIFICATIONS

- 125 Volts Rated.

### FEATURES

- High quality indicator lights made of nylon with polycarbonate lens material and neon lamps.
- Connection with 6 inch wire leads.
- More styles and finishes available.
- Available with incandescent lamps.



| CAT. NO.        | FIG. NO. | PANEL CUTOUT | PANEL THICKNESS      | LENS STYLE | LENS COLOR                     | LENS TYPE | BEZEL COLOR                    | TYPE OF FIT | CONNECTION TYPE   | MTNG. HOLE DIA. | STD. CTN. QTY. |
|-----------------|----------|--------------|----------------------|------------|--------------------------------|-----------|--------------------------------|-------------|-------------------|-----------------|----------------|
| 79770LW         | 1        | 0.500        | 0.030 - 0.093        | 0.25 Cyl   | Green                          | Diamond   | Stainless                      | Press       | —                 | 0.500           | 5              |
| 79780LW         | 1        | 0.500        | 0.030 - 0.093        | 0.25 Cyl   | Red                            | Diamond   | Stainless                      | Press       | —                 | 0.500           | 5              |
| 79785LW         | 1        | 0.500        | 0.030 - 0.093        | 0.25 Cyl   | Amber                          | Diamond   | Stainless                      | Press       | —                 | 0.500           | 5              |
| Dimensions (IN) | 1        | A: 0.210     | B: 0.100             | C: 0.910   | MOUNTING HOLE: 0.500           |           | PANEL THICKNESS: 0.030 - 0.093 |             |                   |                 |                |
| 79800LW         | 2        | 0.500        | 0.040 - 0.110        | Semi-Dome  | Red                            | Rings     | None                           | Snap In     | —                 | 0.500           | 5              |
| Dimensions (IN) | 2        | A: 1.130     | MOUNTING HOLE: 0.500 |            | PANEL THICKNESS: 0.040 - 0.110 |           |                                |             |                   |                 |                |
| 79505LQ         | 3        | 0.375 x 1.28 | 0.03 - .10           | —          | Red                            | Diamond   | Stainless                      | —           | 0.250 Quikconnect | —               | 5              |
| Dimensions (IN) | 3        | A: 1.080     | B: 0.290             | C: 1.380   | D: 0.460                       | E: 0.500  | F: 0.370                       | G: 0.120    |                   |                 |                |



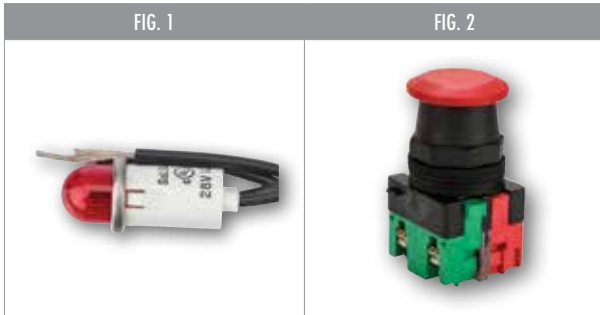
# SWITCHES

## Indicator Lights & Emergency Stop Buttons

### FEATURES

#### INDICATOR LIGHTS

- Terminals are tin-plated brass.
- Dome style.
- Wire leads are 22 AWG, 4.4-4.8" long, 1/2" stripped.
- Mounting will snap-fit into 0.500-0.505" diameter hole in 0.020-0.100" thick panels.



| CAT. NO.                  | FIG. NO. | NAED NO. | LENS COLOR | COLOR | LENS MATERIAL | VOLTAGE (VAC) | BULB TYPE    | BAG QTY. | STD. CTN. QTY. |
|---------------------------|----------|----------|------------|-------|---------------|---------------|--------------|----------|----------------|
| 79900LW                   | 1        | —        | —          | Red   | Polycarbonate | 28V           | Incandescent | 1        | 12             |
| 79901LW                   | 1        | —        | —          | Green | Polycarbonate | 28V           | Incandescent | 1        | 12             |
| 79902LW                   | 1        | —        | —          | Amber | Polycarbonate | 28V           | Incandescent | 1        | 12             |
| 79910LW                   | 1        | —        | —          | Red   | Nylon         | 105-125VAC    | Neon         | 1        | 12             |
| 79911LW                   | 1        | —        | —          | Green | Polycarbonate | 105-125VAC    | Neon         | 1        | 12             |
| 79912LW                   | 1        | —        | —          | Amber | Nylon         | 105-125VAC    | Neon         | 1        | 12             |
| 79920LW                   | 1        | —        | —          | Red   | Polycarbonate | 208-250 VAC   | Neon         | 1        | 12             |
| 79921LW                   | 1        | —        | —          | Green | Polycarbonate | 208-250 VAC   | Neon         | 1        | 12             |
| 79922LW                   | 1        | —        | —          | Amber | Polycarbonate | 208-250 VAC   | Neon         | 1        | 12             |
| Dimensions (IN)           | 1        | L: 1.300 | W: 0.489   |       |               |               |              |          |                |
| ESB2-INCR (UL Listed)     | 2        | 32132    | Red        | —     | —             | —             | —            | —        | 6              |
| ESB2-INOINC-R (UL Listed) | 2        | 32136    | Red        | —     | —             | —             | —            | —        | 6              |





**EASY-WRAP™**



**EASY-WRAP™**  
**Electrical Tape**  
 Premium 070 & 085  
 EWP Series



**SPECIFICATIONS**

- UL Listed and CSA.
- **Temperature Rating:** Suitable for use at no more than 600V and not more than 80 °C (176 °F).
- **CSA Temperature Range:** -18 °C to 105 °C (-0.4 °F to 221 °F).
- Meets MIL-I-24391C, HH-I-595C and ASTM D-3005 (Premium 085).

**FEATURES**

- 7 mil., all-weather, premium grade, pressure sensitive vinyl electrical tape (Premium 070).
- Available in standard black and nine assorted colors for easy identification or color coding (Premium 070).
- Cold and sunlight resistant.
- Flame retardant.
- Suitable for use in all kinds of electrical and mechanical applications.
- Provides exceptional flexibility and performance over a wide range of temperatures.
- \*8.5 mil., all-weather, premium grade, pressure sensitive vinyl electrical tape (Premium 085).
- \*Available in standard black (Premium 085).



| CAT. NO.  | FIG. NO. | COLOR  | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|-----------|----------|--------|--------------|-------------|-----------------|----------------|
| EWP7066   | 1        | Black  | 66           | 0.75        | 0.007           | 10             |
| EWP7066-1 | 2        | Brown  | 66           | 0.75        | 0.007           | 10             |
| EWP7066-2 | 3        | Red    | 66           | 0.75        | 0.007           | 10             |
| EWP7066-3 | 4        | Orange | 66           | 0.75        | 0.007           | 10             |
| EWP7066-4 | 5        | Yellow | 66           | 0.75        | 0.007           | 10             |
| EWP7066-5 | 6        | Green  | 66           | 0.75        | 0.007           | 10             |
| EWP7066-6 | 7        | Blue   | 66           | 0.75        | 0.007           | 10             |
| EWP7066-7 | 8        | Purple | 66           | 0.75        | 0.007           | 10             |
| EWP7066-8 | 9        | Grey   | 66           | 0.75        | 0.007           | 10             |
| EWP7066-9 | 10       | White  | 66           | 0.75        | 0.007           | 10             |
| *EWP8566  | 11       | Black  | 66           | 0.75        | 0.0085          | 10             |



**EASY-WRAP™**  
**Electrical Tape**  
 General Purpose  
 EWG Series

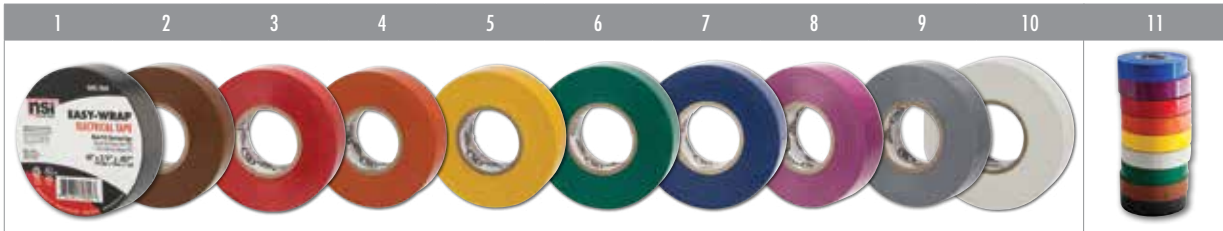


**SPECIFICATIONS**

- UL Listed and CSA.
- **Temperature Rating:** Suitable for use at no more than 600V and not more than 80 °C (176 °F).
- **CSA Temperature Range:** -7 °C to 80 °C (19.4 °F to 176 °F).

**FEATURES**

- 7 mil., economy-grade, sunlight resistant, pressure sensitive vinyl electrical tape.
- Suitable for use in all kinds of electrical and mechanical applications such as cable insulation, wire bundling, and reinforcing.
- Extremely flexible with good adhesion and conformability.
- Available in standard black and nine assorted colors for easy identification or color coding.



**EASY-WRAP™**

| CAT. NO.   | FIG. NO. | COLOR                                   | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |        |
|------------|----------|---|--------------|-------------|-----------------|----------------|--------|
| EWG7060    | 1        | Black                                   | 60           | 0.75        | 0.007           | 10             |        |
| EWG7060-1  | 2        | Brown                                   | 60           | 0.75        | 0.007           | 10             |        |
| EWG7060-2  | 3        | Red                                     | 60           | 0.75        | 0.007           | 10             |        |
| EWG7060-3  | 4        | Orange                                  | 60           | 0.75        | 0.007           | 10             |        |
| EWG7060-4  | 5        | Yellow                                  | 60           | 0.75        | 0.007           | 10             |        |
| EWG7060-5  | 6        | Green                                   | 60           | 0.75        | 0.007           | 10             |        |
| EWG7060-6  | 7        | Blue                                    | 60           | 0.75        | 0.007           | 10             |        |
| EWG7060-7  | 8        | Purple                                  | 60           | 0.75        | 0.007           | 10             |        |
| EWG7060-8  | 9        | Grey                                    | 60           | 0.75        | 0.007           | 10             |        |
| EWG7060-9  | 10       | White                                   | 60           | 0.75        | 0.007           | 10             |        |
| EWG7060-10 | 11       | One roll of each of the above 10 colors |              |             |                 |                | 1 Pkg. |

# EASY-WRAP™

## Electrical Tape

### All-Weather Corrosion Tape (Pipe Wrap)

EWPP Series

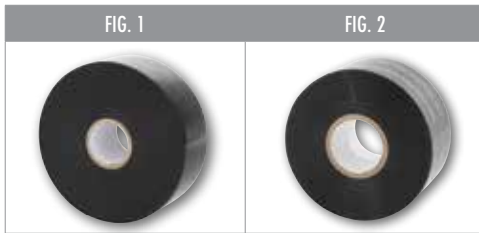


#### SPECIFICATIONS

- Temperature Rating: Temperature rated to 80 °C (176 °F).

#### FEATURES

- Heavy duty PVC tape, manufactured with a high quality adhesive and are designed to protect pipe surfaces from corrosion, abrasion and electrolytic action.
- Indoors or outdoors, above or below ground to protect pipes, conduits, joints and fittings.
- Pliable and easy to apply.
- Outstanding protection against water, sunlight, acids, alkalis, corrosive salts and sewage.
- Excellent UV resistant.
- \*Suffix "P" denotes printed tapes.



| CAT. NO.     | FIG. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|--------------|----------|-------|--------------|-------------|-----------------|----------------|
| EWPP102100*  | 1        | Black | 100          | 2           | 0.01            | 1              |
| EWPP104100*  | 1        | Black | 100          | 4           | 0.01            | 1              |
| EWPP202100   | 1        | Black | 100          | 2           | 0.02            | 1              |
| EWPP102100P* | 2        | Black | 100          | 2           | 0.01            | 1              |
| EWPP202100P* | 2        | Black | 100          | 2           | 0.02            | 1              |

# EASY-WRAP™

## Electrical Tape

Rubber Splicing, Harness Wrap & Duct Tape  
EWRT, EWWH, EWDT Series



### SPECIFICATIONS

- UL Listed and CSA (EWRT).
- **Rubber Splicing Temperature Rating:** Dielectric strength 490 Volts per mil.
- Meets HH-553C Grade B and ASTM D-119; UL 510 listing #2C58.

### FEATURES

#### Rubber Splicing (EWRT)

- High quality unvulcanized rubber that will bond quickly to itself to form a solid mass of watertight protection.
- Self-fusing with liner.
- Can be used as primary insulation for electrical wires and cable splices up to 600 volts.
- Conforms to irregular shapes and is flexible to withstand expansion and contraction.
- Highly resistant to salt water, steam, oils, detergents and other chemicals.

#### Harness Wrap (EWWH)

- A 5 mil PVC film, coated with a rubber adhesive for high elongation and exceptional adherence.
- Excellent conformability to the wiring harness and matte finish.

#### Duct Tape (EWDT)

- Superior cloth duct tapes, designed to meet all industry demands and applications.
- Uniform MD/CD tear properties.



| CAT. NO.     | FIG. NO. | COLOR  | TENSILE (IN./LBS.) | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN) | STD. CTN. QTY. |
|--------------|----------|--------|--------------------|--------------|-------------|----------------|----------------|
| EWRT3022-.75 | 1        | Black  | —                  | 22           | 0.750       | 0.030          | 1              |
| EWRT3022-1.5 | 1        | Black  | —                  | 22           | 1.500       | 0.030          | 1              |
| EWRT3022-2   | 1        | Black  | —                  | 22           | 2.000       | 0.030          | 1              |
| EWWH5060     | 2        | Black  | —                  | 60           | 0.750       | 0.005          | 1              |
| EWDT-8       | 3        | Silver | 18                 | 55           | 2.000       | 0.314          | 1              |

EASY-WRAP™



# EASY-WRAP™

## Electrical Tape

Friction, Electrical Filler & Silicone Rubber Tape

EWFT, EWEF, EWSR Series



### SPECIFICATIONS

- UL Listed and CSA (EWFT).
- Temperature Rating (EWSR): -53.8 °C to 204.4 (-65 °F to 400 °F).
- APPLICATIONS (EWSR): For use on applications up to 69 KV..  
Meets MIL-A-59163.

### FEATURES

#### Friction Tape (EWFT)

- Cloth construction offers strong mechanical protection against abrasion and penetration of cable, splices and wire.
- Coated on both sides with a rubber adhesive for adhesion to all types of surfaces.

#### Electrical Filler Tape (EWEF)

- Butyl based insulation is 1/8" thick for build-up.
- Easy to mold around irregular shapes.
- Self-amalgamates into solid flexible mass.
- Will not corrode copper or aluminum and highly resistant to moisture.
- Rated for applications up to 5 KV.

#### Silicone Rubber Tape - 69 KV (EWSR)

- Self-bonding silicone rubber tape adheres to itself when wrapped under tension and fuses to form a homogeneous mass within 24 hours at room temperature or four hours at 176.6 °C (350 °F).
- No adhesive required; tape leaves no residue.
- Excellent dielectric properties.
- Waterproof and chemical resistant.
- Triangular configuration.



| CAT. NO.   | FIG. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|------------|----------|-------|--------------|-------------|-----------------|----------------|
| EWFT157560 | 1        | Black | 60           | 0.750       | 0.015           | 1              |
| EWEF12155  | 2        | Black | 5            | 1.500       | 0.125           | 1              |
| EWSR121030 | 3        | Red   | 30           | 1.000       | 0.120           | 1              |

# EASY-WRAP™

## Electrical Tape

High Voltage, Glass Cloth & Rubber Mastic Tape  
EWHR, EWGC, EWMT Series



### SPECIFICATIONS

- UL Listed (EWHR).
- **Temperature Rating (EWHR):** Rated for 90 °C (194 °F) continuous operating temperature. Intermittent to 130 °C (266 °F). Will not crack at -40 °C (-40 °F).
- **Temperature Rating (EWGC):** Insulation Class: 130 °C (266 °F). Dielectric strength: 3,300 Volts. MIL-I-15126F (type GFT).
- **Temperature Rating (EWMT):** 130 °C (1266 °F).

### FEATURES

#### High Voltage Rubber Tape - 69 Kv With White Liner (EWHR)

- Self bonding, highly conformable 30 mil EPR rubber with liner.
- Use as primary electrical insulation for applications through 69 KV.
- Flame Retardant, IEEE Standard 17-1974 ANSI.

#### Glass Cloth Rubber Adhesive (EWGC)

- Provides heat stabilized insulation for applications where resistance to high temperature and high mechanical strength are required, such as motor leads, hot spots, switches and controls.

#### Duct Tape (EWMT)

- A self-fusing conformable electrical insulating and sealing tape.
- EPR rubber with a strong stable mastic adhesive for busbar and splice connections.



| CAT. NO.      | FIG. NO. | COLOR | LENGTH (FT.) | WIDTH (IN.) | THICKNESS (IN.) | STD. CTN. QTY. |
|---------------|----------|-------|--------------|-------------|-----------------|----------------|
| EWHR307530-L  | 1        | Black | 30           | 0.750       | 0.030           | 1              |
| EWHR3010030-L | 1        | Black | 30           | 1.000       | 0.030           | 1              |
| EWHR3015030-L | 1        | Black | 30           | 1.500       | 0.030           | 1              |
| EWHR3020030-L | 1        | Black | 30           | 2.000       | 0.030           | 1              |
| EWGC75066     | 2        | White | 66           | 0.500       | 0.007           | 1              |
| EWGC77566     | 2        | White | 66           | 0.750       | 0.007           | 1              |
| EWMT1252524   | 3        | Black | 2            | 2.500       | 0.125           | 1              |

FS-814P  
**FireStop<sup>814+</sup>**

**ELASTOMERIC INTUMESCENT FIRESTOPPING SEALANT**  
UL 1479 & ASTM E814 COMPLIANT  
10.3 FL OZ (304ml)

FireStop<sup>814</sup> is a registered trademark of FireStop Systems, Inc. FireStop<sup>814</sup> is not intended for use in residential or commercial construction. FireStop<sup>814</sup> meets UL 1479/ASTM E814 standards.  
Huntersville, North Carolina 28078.

**FireStop<sup>814</sup>**



# WIRE MANAGEMENT





# WIRE MANAGEMENT

## Standard Slot Panel Channel

PC-LS Series



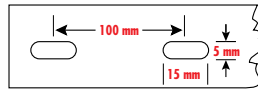
### SPECIFICATIONS

- CSA and UL Recognized.
- **Maximum Service Temperature:** 85 °C (185 °F), Tested to UL File up to 50 °C (122 °F). 94V-0 Rated.

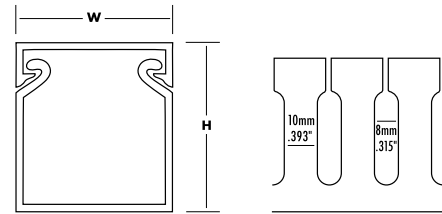
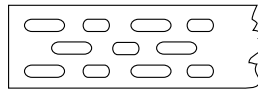
### FEATURES

- Made from high-impact, self-extinguishing, warp-proof PVC for routing wires.
- Restricted slot opening is designed to retain wires and allow for breakout when required. Individual wires are easily traced and removed when necessary.
- Scored sidewalls allow for easy break-off of panel channel sections.
- All sizes are supplied with mounting holes and non-slip, snap-on and off covers.
- Optional adhesive backing is available.
- For other sizes, please contact NSi.

Mounting holes: For widths up to 2.5"



Mounting holes: For widths over 2.5"



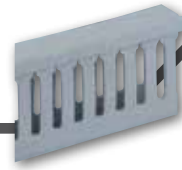
Finger width = 10 mm, slot width = 8 mm.

| CAT. NO.    | COLOR | NOMINAL SIZE  | LENTH (FT.) | STD. PKG. QTY. | STD. CTN. QTY. |
|-------------|-------|---------------|-------------|----------------|----------------|
| PC1010-LS   | Grey  | 1 x 1         | 6'          | 6'             | 72'            |
| PC1010-LS-W | White | 1 x 1         | 6'          | 6'             | 72'            |
| PC1015-LS   | Grey  | 1 x 1 1/2     | 6'          | 6'             | 72'            |
| PC1020-LS   | Grey  | 1 x 2         | 6'          | 6'             | 72'            |
| PC1020-LS-W | White | 1 x 2         | 6'          | 6'             | 72'            |
| PC1030-LS   | Grey  | 1 x 3         | 6'          | 6'             | 72'            |
| PC1030-LS-W | White | 1 x 3         | 6'          | 6'             | 72'            |
| PC1040-LS   | Grey  | 1 x 4         | 6'          | 6'             | 72'            |
| PC1040-LS-W | White | 1 x 4         | 6'          | 6'             | 72'            |
| PC1515-LS   | Grey  | 1 1/2 x 1 1/2 | 6'          | 6'             | 72'            |
| PC1515-LS-W | White | 1 1/2 x 1 1/2 | 6'          | 6'             | 72'            |
| PC1520-LS   | Grey  | 1 1/2 x 2     | 6'          | 6'             | 72'            |
| PC1520-LS-W | White | 1 1/2 x 2     | 6'          | 6'             | 72'            |
| PC1530-LS   | Grey  | 1 1/2 x 3     | 6'          | 6'             | 72'            |
| PC1530-LS-W | White | 1 1/2 x 3     | 6'          | 6'             | 72'            |
| PC1540-LS-W | White | 1 1/2 x 4     | 6'          | 6'             | 72'            |
| PC2010-LS   | Grey  | 2 x 1         | 6'          | 6'             | 72'            |
| PC2010-LS-W | White | 2 x 1         | 6'          | 6'             | 72'            |
| PC2020-LS   | Grey  | 2 x 2         | 6'          | 6'             | 72'            |

# WIRE MANAGEMENT

## Standard Slot Panel Channel

PC-LS Series



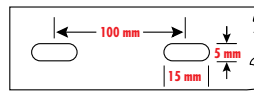
### SPECIFICATIONS

- CSA and UL Recognized.
- **Maximum Service Temperature:** 85 °C (185 °F), Tested to UL File up to 50 °C (122 °F). 94V-0 Rated.

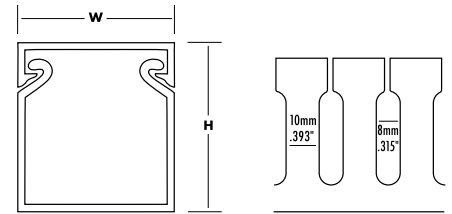
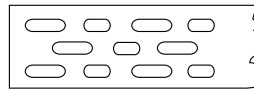
### FEATURES

- Made from high-impact, self-extinguishing, warp-proof PVC for routing wires.
- Restricted slot opening is designed to retain wires and allow for breakout when required. Individual wires are easily traced and removed when necessary.
- Scored sidewalls allow for easy break-off of panel channel sections.
- All sizes are supplied with mounting holes and non-slip, snap-on and off covers.
- Optional adhesive backing is available.
- For other sizes, please contact NSi.

Mounting holes: For widths up to 2.5"



Mounting holes: For widths over 2.5"



Finger width = 10 mm, slot width = 8 mm.

| CAT. NO.    | COLOR | NOMINAL SIZE | LENGH (FT.) | STD. PKG. QTY. | STD. CTN. QTY. |
|-------------|-------|--------------|-------------|----------------|----------------|
| PC2020-LS-W | White | 2 x 2        | 6'          | 6'             | 72'            |
| PC2030-LS   | Grey  | 2 x 3        | 6'          | 6'             | 72'            |
| PC2030-LS-W | White | 2 x 3        | 6'          | 6'             | 72'            |
| PC2040-LS   | Grey  | 2 x 4        | 6'          | 6'             | 72'            |
| PC2040-LS-W | White | 2 x 4        | 6'          | 6'             | 72'            |
| PC3020-LS   | Grey  | 3 x 2        | 6'          | 6'             | 72'            |
| PC3020-LS-W | White | 3 x 2        | 6'          | 6'             | 72'            |
| PC3030-LS   | Grey  | 3 x 3        | 6'          | 6'             | 72'            |
| PC3030-LS-W | White | 3 x 3        | 6'          | 6'             | 72'            |
| PC3040-LS   | Grey  | 3 x 4        | 6'          | 6'             | 72'            |
| PC3040-LS-W | White | 3 x 4        | 6'          | 6'             | 72'            |
| PC4020-LS   | Grey  | 4 x 2        | 6'          | 6'             | 72'            |
| PC4030-LS   | Grey  | 4 x 3        | 6'          | 6'             | 72'            |
| PC4030-LS-W | White | 4 x 3        | 6'          | 6'             | 72'            |
| PC4040-LS   | Grey  | 4 x 4        | 6'          | 6'             | 72'            |
| PC4040-LS-W | White | 4 x 4        | 6'          | 6'             | 72'            |
| PC6040-LS   | Grey  | 6 x 4        | 6'          | 6'             | 72'            |
| PC6040-LS-W | White | 6 x 4        | 6'          | 6'             | 72'            |

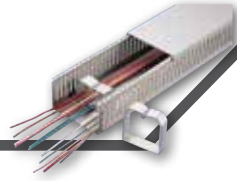




# WIRE MANAGEMENT

## Narrow Finger, High Density Panel Channel

PC-LSN Series



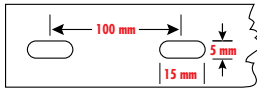
### SPECIFICATIONS

- CSA and UL Recognized.
- Tested to UL File up to 50 °C (122 °F). 94V-0 rated.
- Maximum Service Temperature: 85 °C (185 °F).

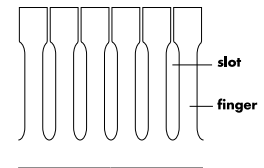
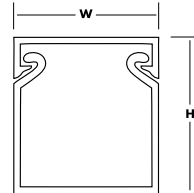
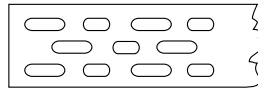
### FEATURES

- Narrower finger width is 6mm.
- Slot width is 4mm.
- Made from high-impact, self-extinguishing, warp-proof PVC.
- Optional adhesive backing is available.
- 5mm slot width is available in both white and grey for 1020, 2020, 2030, 2040

Mounting holes: For widths up to 2.5"



Mounting holes: For widths over 2.5"



| CAT. NO.      | COLOR | NOMINAL SIZE  | LENTH (FT.) | STD. PKG. QTY. | STD. CTN. QTY. |
|---------------|-------|---------------|-------------|----------------|----------------|
| PC.75.75-LSN  | Grey  | 3/4 x 3/4     | 6'          | 6'             | 72'            |
| PC1010-LSN    | Grey  | 1 x 1         | 6'          | 6'             | 72'            |
| PC1010-LSN-W  | White | 1 x 1         | 6'          | 6'             | 72'            |
| PC1015-LSN    | Grey  | 1 x 1 1/2     | 6'          | 6'             | 72'            |
| PC1015-LSN-W  | White | 1 x 1 1/2     | 6'          | 6'             | 72'            |
| PC10175-LSN   | Grey  | 1 x 1 3/4     | 6'          | 6'             | 72'            |
| PC10175-LSN-W | White | 1 x 1 3/4     | 6'          | 6'             | 72'            |
| PC1020-LSN    | Grey  | 1 x 2         | 6'          | 6'             | 72'            |
| PC1020-LSN-W  | White | 1 x 2         | 6'          | 6'             | 72'            |
| PC10250-LSN   | Grey  | 1 x 2 1/2     | 6'          | 6'             | 72'            |
| PC1030-LSN    | Grey  | 1 x 3         | 6'          | 6'             | 72'            |
| PC1030-LSN-W  | White | 1 x 3         | 6'          | 6'             | 72'            |
| PC1515-LSN    | Grey  | 1 1/2 x 1 1/2 | 6'          | 6'             | 72'            |
| PC1520-LSN    | Grey  | 1 1/2 x 2     | 6'          | 6'             | 72'            |
| PC1520-LSN-W  | White | 1 1/2 x 2     | 6'          | 6'             | 72'            |
| PC1530-LSN    | Grey  | 1 1/2 x 3     | 6'          | 6'             | 72'            |
| PC1540-LSN    | Grey  | 1 1/2 x 4     | 6'          | 6'             | 72'            |
| PC175175-LSN  | Grey  | 1 3/4 x 1 3/4 | 6'          | 6'             | 72'            |
| PC2020-LSN    | Grey  | 2 x 2         | 6'          | 6'             | 72'            |
| PC2020-LSN-W  | White | 2 x 2         | 6'          | 6'             | 72'            |
| PC2030-LSN    | Grey  | 2 x 3         | 6'          | 6'             | 72'            |
| PC2030-LSN-W  | White | 2 x 3         | 6'          | 6'             | 72'            |
| PC2040-LSN    | Grey  | 2 x 4         | 6'          | 6'             | 72'            |
| PC3020-LSN    | Grey  | 3 x 2         | 6'          | 6'             | 72'            |
| PC3020-LSN-W  | White | 3 x 2         | 6'          | 6'             | 72'            |
| PC3030-LSN    | Grey  | 3 x 3         | 6'          | 6'             | 72'            |
| PC3040-LSN    | Grey  | 3 x 4         | 6'          | 6'             | 72'            |
| PC4020-LSN-W  | White | 4 x 2         | 6'          | 6'             | 72'            |
| PC4030-LSN    | Grey  | 4 x 3         | 6'          | 6'             | 72'            |
| PC4040-LSN    | Grey  | 4 x 4         | 6'          | 6'             | 72'            |





# WIRE MANAGEMENT

## Solid Wall Panel Channel

PC Series



### SPECIFICATIONS

- CSA and UL Recognized.
- Tested to UL File up to 50 °C (122 °F). 94V-0 rated.
- Maximum Service Temperature: 85 °C (185 °F).

### FEATURES

- Made from high-impact, self-extinguishing, warp-proof PVC for routing wires where wire extraction is not necessary.
- Supplied complete with mounting holes and non-slip, snap-on and off covers.
- Optional adhesive backing is available.
- For other sizes, please contact NSi.

| CAT. NO. | COLOR | NOMINAL SIZE (IN) | LENGTH (FT.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|-------|-------------------|--------------|----------------|----------------|
| PC2020   | Grey  | 2 x 2             | 6'           | 6'             | 72'            |
| PC2030   | Grey  | 2 x 3             | 6'           | 6'             | 72'            |
| PC3030   | Grey  | 3 x 3             | 6'           | 6'             | 72'            |
| PC4040   | Grey  | 4 x 4             | 6'           | 6'             | 72'            |

WIRE MANAGEMENT

# WIRE MANAGEMENT

## Floor Duct

FD Series



### FEATURES

- 2.5" and 4" wide floor duct for use as safe temporary enclosure of electrical cords, data communications cables and other objects that present a trip hazard.
- Manufactured using soft PVC.

| CAT. NO. | COLOR     | NOMINAL SIZE (IN.) | LENGTH (FT.) | WIDTH (IN) |       | HEIGHT (IN) |       | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|-----------|--------------------|--------------|------------|-------|-------------|-------|----------------|----------------|
|          |           |                    |              | ID         | OD    | ID          | OD    |                |                |
| FD250K   | Black     | 2.5"               | 6'           | 0.750      | 2.600 | 0.430       | 0.600 | 6'             | 18'            |
| FD400W   | Off White | 4"                 | 6'           | 1.160      | 4.000 | 0.610       | 0.910 | 6'             | 18'            |
| FD400K   | Black     | 4"                 | 6'           | 1.160      | 4.000 | 0.610       | 0.910 | 6'             | 18'            |

# WIRE MANAGEMENT

## Cable Marker Plates

Wire Marking/ID

MP Series



### FEATURES

- Mark-Pro™ cable marker plates provide reliable method of identification of larger cables and bundles.
- They can be installed using standard nylon tie wraps. A fine tip permanent marker is recommended.  
Manufactured using natural colored nylon.

| CAT. NO. | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|--------------|-------------|----------------|----------------|
| MP-2     | 1.58         | 0.790       | 100            | 1000           |
| MP-3     | 2.36         | 1.000       | 100            | 1000           |

WIRE MANAGEMENT

# WIRE MANAGEMENT

## Wire Marker Dispensers

Wire Marking/ID

WLD Series



### SPECIFICATIONS

- Temperature Rating: -40 °C to 121.1 °C (-40 °F to 250 °F).

### FEATURES

- Permanent markers are recommended for writing on these vinyl self laminating labels, backed with an acrylic adhesive.

| CAT. NO. | WHITE-ON AREA | LENGTH (IN.) | WIDTH (IN.) | STD. CTN. QTY. |
|----------|---------------|--------------|-------------|----------------|
| WLD-1    | 0.75 x 0.31   | 0.75         | 1.250       | 1              |
| WLD-2    | 0.75 x 0.50   | 0.75         | 1.880       | 1              |
| WLD-3    | 0.75 x 0.75   | 0.75         | 3.000       | 1              |

# WIRE MANAGEMENT

## Roll Label Dispenser

Wire Marking/ID

RLD Series



### SPECIFICATIONS

- Temperature Rating: -40 °C to 121.1 °C (-40 °F to 250 °F).

### FEATURES

- Reusable, refillable, compact and convenient, roll label dispensers provide 760 1-1/4" markers per dispenser.
- Made of tough tyvek material with an excellent acrylic adhesive and a silicone release liner.

| CAT. NO. | LABEL LEGEND | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|--------------|----------------|----------------|
| RLD-1    | 0-9          | 1              | 1              |

# WIRE MANAGEMENT

## Pocket Pal Marker Books

### Wire Marking/ID

#### WMB Series



#### SPECIFICATIONS

- Temperature Rating: -40 °C to 121.1 °C (-40 °F to 250 °F).

#### FEATURES

- Convenient NSi wire marker books made with vinyl impregnated cloth.
- A strong adhesive ensures the marking will last.
- Printed with black legends on a white background.
- Each book contains 450 wire markers.

| CAT. NO. | LEGEND                             | MARKERS PER BOOK | STD. CTN. QTY. |
|----------|------------------------------------|------------------|----------------|
| WMB-1    | 0-9                                | 45               | 12             |
| WMB-2    | A-Z, 0-15 +, -, /                  | 10               | 12             |
| WMB-3    | 0-45                               | 10               | 12             |
| WMB-4    | 1,2,3                              | 150 Each         | 12             |
| WMB-5    | A,B,C                              | 150 Each         | 12             |
| WMB-6    | T1,T2,T3                           | 150 Each         | 12             |
| WMB-7    | L1,L2,L3                           | 150 Each         | 12             |
| WMB-8    | 1-15                               | 6 Each           | 12             |
|          | 16-90                              | 4 Each           | 12             |
|          | A-Z, +, -, /, 0                    | 2 Each           | 12             |
| WMB-9    | 1,2,3                              | 45 Each          | 12             |
|          | A,B,C                              | 45 Each          | 12             |
|          | L1,L2,L3                           | 30 Each          | 12             |
|          | T1,T2,T3                           | 30 Each          | 12             |
| WMB-11   | 1-30                               | 15 Each          | 12             |
| WMB-12   | A-Z                                | 15 Each          | 12             |
|          | Blank                              | 45 Each          | 12             |
|          | +                                  | 8 Each           | 12             |
|          | -                                  | 7 Each           | 12             |
| WMB-14   | 0-9                                | 45 Each          | 12             |
|          | L1,L2,L3                           | 15 Each          | 12             |
|          | T1,T2,T3                           | 15 Each          | 12             |
| WMB-15   | 46-90                              | 10 Each          | 12             |
| WMB-20   | 1 X 6 Blank (1 x 1 Write on Area)  | 30 Each          | 12             |
| WMB-21   | 1 x 3 Blank (1x0.75 Write on Area) | 60 Each          | 12             |
| WMB-LC   | Load Center                        | 90 Each          | 12             |

# WIRE MANAGEMENT

## Easy Release Wire Marker Cards

### Wire Marking/ID

#### WMC Series



#### FEATURES

- A high performance label stock.
- 2 mil pressure sensitive polyester and thermal transfer resin ribbon in a cartridge.
- Up to seven year exterior life.
- Chemical, water, UV and abrasion resistant.

| CAT. NO | SYMBOL | CAT. NO | SYMBOL | CAT. NO   | SYMBOL |
|---------|--------|---------|--------|-----------|--------|
| WMC-0   | 0      | WMC-21  | 21     | WMC-42    | 42     |
| WMC-1   | 1      | WMC-22  | 22     | WMC-44    | 44     |
| WMC-2   | 2      | WMC-23  | 23     | WMC-1-33  | 1-33   |
| WMC-3   | 3      | WMC-24  | 24     | WMC-34-66 | 34-66  |
| WMC-4   | 4      | WMC-25  | 25     | WMC-      | -      |
| WMC-5   | 5      | WMC-26  | 26     | WMC-A     | A      |
| WMC-6   | 6      | WMC-27  | 27     | WMC-B     | B      |
| WMC-7   | 7      | WMC-28  | 28     | WMC-C     | C      |
| WMC-8   | 8      | WMC-29  | 29     | WMC-D     | D      |
| WMC-9   | 9      | WMC-30  | 30     | WMC-E     | E      |
| WMC-10  | 10     | WMC-31  | 21     | WMC-F     | F      |
| WMC-11  | 11     | WMC-32  | 32     | WMC-G     | G      |
| WMC-12  | 12     | WMC-33  | 33     | WMC-H     | H      |
| WMC-13  | 13     | WMC-34  | 34     | WMC-I     | I      |
| WMC-14  | 14     | WMC-35  | 35     | WMC-N     | N      |
| WMC-15  | 15     | WMC-36  | 36     | WMC-S     | S      |
| WMC-16  | 16     | WMC-37  | 37     | WMC-W     | W      |
| WMC-17  | 17     | WMC-38  | 38     | WMC-X     | X      |
| WMC-18  | 18     | WMC-39  | 39     | WMC-Y     | Y      |
| WMC-19  | 19     | WMC-40  | 40     | WMC-Z     | Z      |
| WMC-20  | 20     | WMC-41  | 41     | WMC-AZ    | AZ     |



# WIRE MANAGEMENT

## Voltage Markers

### Wire Marking/ID

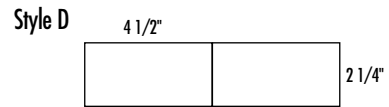
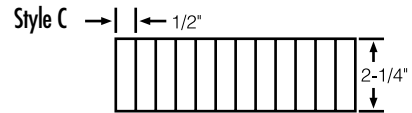
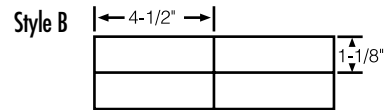
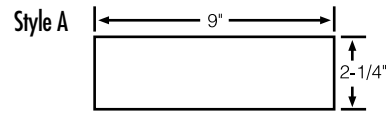
#### VM Series

**120 VOLTS**

#### FEATURES

- Pressure-sensitive vinyl markers for marking power lines, conduit bus, fuse boxes, switches and other electrical equipment, stocked in three convenient sizes.
- Standard Carton Quantity of 25.
- Black lettering on orange background.

#### STYLES



| CAT. NO | SYMBOL              | CAT. NO | SYMBOL              | CAT. NO | SYMBOL              |
|---------|---------------------|---------|---------------------|---------|---------------------|
| VM-A-3  | 120 Volts           | VM-A-49 | 24 Volts            | VM-C-5  | 220 Volts           |
| VM-A-4  | 208 Volts           | VM-B-1  | 110 Volts           | VM-C-7  | 240 Volts           |
| VM-A-5  | 220 Volts           | VM-B-3  | 120 Volts           | VM-C-9  | 277 Volts           |
| VM-A-7  | 240 Volts           | VM-B-4  | 208 Volts           | VM-C-12 | 460 Volts           |
| VM-A-9  | 277 Volts           | VM-B-5  | 220 Volts           | VM-C-13 | 480 Volts           |
| VM-A-11 | 440 Volts           | VM-B-7  | 240 Volts           | VM-C-19 | 4160 Volts          |
| VM-A-12 | 460 Volts           | VM-B-9  | 277 Volts           | VM-C-20 | 4800 Volts          |
| VM-A-13 | 480 Volts           | VM-B-13 | 480 Volts           | VM-C-30 | Single Phase        |
| VM-A-15 | 600 Volts           | VM-B-15 | 600 Volts           | VM-C-32 | Three Phase         |
| VM-A-18 | 2400 Volts          | VM-B-27 | 13200 Volts         | VM-C-35 | 120V to 208V        |
| VM-A-19 | 4160 Volts          | VM-B-28 | 13800 Volts         | VM-C-36 | 120V to 240V        |
| VM-A-20 | 4800 Volts          | VM-B-30 | Single Phase        | VM-C-37 | 277V to 480V        |
| VM-A-25 | 12470 Volts         | VM-B-32 | Three Phase         | VM-C-48 | Danger High Voltage |
| VM-A-28 | 13800 Volts         | VM-B-35 | 120V to 208V        |         |                     |
| VM-A-30 | Single Phase        | VM-B-36 | 120V to 240V        |         |                     |
| VM-A-32 | Three Phase         | VM-B-37 | 277V to 480V        |         |                     |
| VM-A-35 | 120V to 208V        | VM-B-48 | Danger High Voltage |         |                     |
| VM-A-36 | 120V to 240V        | VM-B-49 | 24 Volts            |         |                     |
| VM-A-37 | 277V to 480V        | VM-C-3  | 120 Volts           |         |                     |
| VM-A-48 | Danger High Voltage | VM-C-4  | 208 Volts           |         |                     |

# WIRE MANAGEMENT

## Self-Adhesive Label

Lockout/Tagout  
VL, DSS Series

**CAUTION:** In Accordance with OSHA Standard 1910.147, All Equipment, Machines and Processes Shall Be Locked Out Prior to Servicing. Lockout Procedures are Posted in the Main Operating Area and/or by the Main Energy Source of Each Machine. If You Have any Questions About the Lockout Procedures, Please See Your Supervisor or the Safety Director. This Standard Will Be Strictly Enforced.

### FEATURES

- Self-adhesive labels are sub-surface printed polyester labels.
- Rigid signs are available in either polycarbonate or polyester material.



| CAT. NO. | FIG. NO. | LEGEND   | SIZE (IN.)    | STD. CTN. QTY. |
|----------|----------|--|---------------|----------------|
| VL-7     | 1        | Warning Potential Arc-Flash Hazards Exist While Working on this Energized Equipment. | 2 1/4 x 4 1/2 | 25             |
| VL-8     | 2        | Warning Potential Arc-Flash Hazards Exist While Working on this Energized Equipment. | 4x6           | 25             |
| DSS-5    | 3        | High Voltage.  | 10 x 14       | 25             |
| DSS-6    | 4        | High Voltage Keep Out.   | 10 x 14       | 25             |

# WIRE MANAGEMENT

## Spiral Wrap

Lockout/Tagout

SRPE Series

### FEATURES

- Permits flexible routing of cable harnesses while forming a neat, protective bundle.
- Twists on easily and allows lead-outs at any point.
- **Polyethylene:** For general indoor use with good resistance to ordinary solvents and abrasion.
- **UV Polyethylene:** Ultraviolet resistance for general outdoor use with good resistance to ordinary solvents and abrasion.



| CAT. NO.  | FIG. NO. | COLOR   | MATERIAL        | O.D.  | I.D.  | BUNDLE RANGE | LENGTH (FT.) | STD. CTN. QTY. |
|-----------|----------|---------|-----------------|-------|-------|--------------|--------------|----------------|
| SRPE-250  | 1        | Natural | Polyethylene    | 0.236 | 0.157 | 0.157 - 1.97 | 100          | 1              |
| SRPE-375  | 1        | Natural | Polyethylene    | 0.393 | 0.295 | 0.295 - 2.36 | 100          | 1              |
| SRPE-500  | 1        | Natural | Polyethylene    | 0.472 | 0.354 | 0.354 - 2.56 | 100          | 1              |
| SRPE-2500 | 2        | Black   | UV Polyethylene | 0.236 | 0.157 | 0.157 - 1.97 | 100          | 1              |
| SRPE-3750 | 2        | Black   | UV Polyethylene | 0.393 | 0.295 | 0.295 - 2.36 | 100          | 1              |
| SRPE-5000 | 2        | Black   | UV Polyethylene | 0.472 | 0.354 | 0.354 - 2.56 | 100          | 1              |

# WIRE MANAGEMENT

## Detectable Underground Line Tape

Lockout/Tagout  
ULTD Series

### FEATURES

- Consists of a minimum 5 mil overall thickness with no less than a 35 gauge solid aluminum foil core, which allows for easy detection.
- Specially formulated to resist degradation by elements normally encountered in soil.
- All printing is encased to avoid ink rub-off with environmentally safe ink.



| CAT. NO. | FIG. NO. | COLOR  | LEGEND                                  | LENGTH (FT.) | WIDTH (IN.) | STD. CTN. QTY. |
|----------|----------|--------|---|--------------|-------------|----------------|
| ULTD-327 | 1        | Red    | Caution Buried Electric Line Below      | 1000         | 3           | 8              |
| ULTD-342 | 2        | Orange | Caution Buried Fiber Optic Line Below   | 1000         | 3           | 8              |
| ULTD-343 | 3        | Yellow | Caution Buried Communication Line Below | 1000         | 3           | 8              |
| ULTD-626 | 3        | Yellow | Caution Buried Electric Line Below      | 1000         | 6           | 4              |
| ULTD-627 | 1        | Red    | Caution Buried Electric Line Below      | 1000         | 6           | 4              |
| ULTD-636 | 2        | Orange | Caution Buried Telephone Line Below     | 1000         | 6           | 4              |
| ULTD-643 | 3        | Yellow | Caution Buried Communication Line Below | 1000         | 6           | 4              |

# WIRE MANAGEMENT

## Barricade & Underground Line Tape

Lockout/Tagout  
ULT, BT Series

### FEATURES

- **Underground Line Tape:** Underground tapes are impervious to alkalines, acids and other soil components for the protection, location and identification of underground utility installations. Consists of a 4 mil overall thickness, inert 100 percent virgin low-density polyethylene plastic film formulated for underground use and environmentally safe ink.
- **Barricade Tape:** Made of long lasting, non-adhesive polyethylene for exceptional quality, durability and performance. Used above ground to mark off hazards. Supplied in 1,000 ft. rolls.



| CAT. NO. | FIG. NO. | COLOR  | LEGEND                             | USE          | LENGTH (FT.) | WIDTH (IN.) | STD. CTN. QTY. |
|----------|----------|--------|------------------------------------|--------------|--------------|-------------|----------------|
| ULT-326  | 1        | Yellow | Caution Buried Electric Line Below | Underground  | 1000         | 3           | 8              |
| ULT-327  | 1        | Red    | Caution Buried Electric Line Below | Underground  | 1000         | 3           | 8              |
| ULT-626  | 1        | Yellow | Caution Buried Electric Line Below | Underground  | 1000         | 6           | 4              |
| ULT-627  | 1        | Red    | Caution Buried Electric Line Below | Underground  | 1000         | 6           | 4              |
| BT-305   | 2        | Yellow | Caution                            | Above ground | 1000         | 3           | 8              |
| BT-308   | 2        | Yellow | Caution Do Not Enter               | Above ground | 1000         | 3           | 8              |

# WIRE MANAGEMENT

## Wrap-Around Gel & UF Splice Kits

Easy-Splice™  
WAGS, ESUF Series

### FEATURES

#### Gel Splice Kits (WAGS)

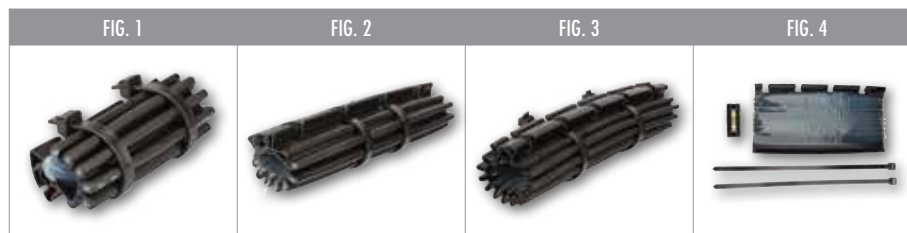
- Wrap-around gel splice closure sleeves quickly insulate and seal buried electrical connections rated up to 1,000 volts.
- Engineered to handle direct burial and manhole applications, these splice enclosure sleeves are equally well suited for insulation and jacket repair.
- Simply wrap and snap the sleeve on any cable in the use range.
- The sealant gel in the sleeve seals on contract.
- The splice closure sleeve can be applied on all common compression connectors and low voltage cables, as well as in-line mechanical connectors.

#### UF Splice Kits (ESUF)

- Wrap-around UF splice kit provides a quick and convenient method of splicing underground feeder (UF) cable.
- Convenient wrap-around design and fast installation. No heating or waiting for compounds to cure.
- The unique sealing gel entirely encapsulates the splice, completely sealing out moisture and other contaminants.

### SPECIFICATIONS

- Insulate and seal buried electrical connections rated up to 1,000 volts.
- A minimum seal length is required on each side of the connector opening or jacket damage.
- Use these guidelines for minimum seal distance:
  - WAGS-4/0 series: 1.50" each side.
  - WAGS-500 series: 2.00" each side.
  - WAGS-750 series: 3.00" each side.
- **Application:** Qualified to ANSI C119.1-1986 for underground splicing.
- The UF splice kit is rated for 600V applications and it includes connector and closure.



| CAT. NO.         | FIG. NO. | WIRE RANGE              | CONDUCTOR SIZE | GENERAL USE DIA. LENGTH (IN.) | LENGTH (L) (IN.) | SLEEVE LENGTH (IN.) | MAX. CONDUCTOR OPENING (IN.) | STD. CTN. QTY. |
|------------------|----------|-------------------------|----------------|-------------------------------|------------------|---------------------|------------------------------|----------------|
| WAGS-4/0-4       | 1        | –                       | 4/0-14 AWG     | 0.15-0.70 (4-18)              | –                | 4.00 (100)          | 1.00 (25)                    | 3              |
| WAGS-4/0-6       | 1        | –                       | 4/0-14 AWG     | 0.15-0.70 (4-18)              | –                | 6.00 (150)          | 3.00 (75)                    | 3              |
| WAGS-4/0-8       | 1        | –                       | 4/0-14 AWG     | 0.15-0.70 (4-18)              | –                | 8.00 (200)          | 5.00 (125)                   | 3              |
| WAGS-4/0-10      | 1        | –                       | 4/0-14 AWG     | 0.15-0.70 (4-18)              | –                | 10.00 (250)         | 7.00 (175)                   | 3              |
| WAGS-500-8       | 2        | –                       | 500 MCM-6 AWG  | 0.30-1.30 (10-33)             | –                | 8.00 (200)          | 4.00 (100)                   | 3              |
| WAGS-500-10      | 2        | –                       | 500 MCM-6 AWG  | 0.30-1.30 (10-33)             | –                | 10.00 (250)         | 6.00 (150)                   | 3              |
| WAGS-750-10      | 3        | –                       | 750-250 MCM    | 0.80-1.50 (20-38)             | –                | 10.00 (250)         | 4.00 (100)                   | 3              |
| WAGS-750-14      | 3        | –                       | 750-250 MCM    | 0.80-1.50 (20-38)             | –                | 14.00 (355)         | 4.00 (100)                   | 3              |
| ESUF (UL Listed) | 4        | 14/2 To 8/3 with ground | –              | –                             | 8.000            | –                   | –                            | 3              |

# WIRE MANAGEMENT

## In-Line Gel & Gel Tap Splice Kit with Connector

Easy-Splice™

ESGS, ESGTS Series

### FEATURES

#### In-Line Gel (ESGS)

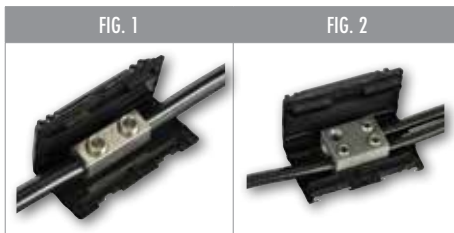
- In-line gel splice kit provides a sealed splice for underground, buried and overhead applications.
- Closure offers a fast and simple method for splicing, insulating and environmentally sealing low voltage cable splices.
- Simply install the connector on a copper or aluminum cable, place it in the closure, and snap closed.
- The splice kit is watertight for use in all locations.
- Sealing and corrosion protection provided by sealant gel.

#### Gel Tap (ESGTS)

- Fast and simple method for connecting, insulating, and environmentally sealing low-voltage splices.
- Designed for underground and overhead environments and is useful for street lighting applications.
- The kit's dual-rated mechanical connector splices a wide range of cables, including copper and aluminum.
- Four port design allows maximum inventory flexibility.
- Sealant gel protects the connection from moisture ingress, corrosion and pollution.
- Hinged splice closure can be installed over the connector in seconds by simply snapping the cover shut.

### SPECIFICATIONS

- **Temperature Rating (ESGS):** -40 °C to 90 °C (-40 °F to 194 °F), 1000V.
- **Application:** Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.
- **Temperature Rating (ESGTS):** -40 °C to 90 °C (-40 °F to 194 °F), 1000V.
- **Application:** Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.



| CAT. NO.  | FIG. NO. | WIRE RANGE    | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|-----------|----------|---------------|------------------|-----------------|------------------|----------------|
| ESGS-4/0  | 1        | #2 – 4/0 AWG  | 4.229            | 1.973           | 1.097            | 3              |
| ESGTS-2   | 2        | #14 – #2 AWG  | 2.750            | 1.625           | 1.063            | 3              |
| ESGTS-2/0 | 2        | #14 – 2/0 AWG | 4.250            | 2.000           | 1.188            | 3              |



# WIRE MANAGEMENT

## Gel Stub Splice Kit with Connector

### Easy-Splice™

#### ESSLK Series



#### SPECIFICATIONS

- cULus Listed.
- **Temperature Rating:** -40 °C to 90 °C.
- **Application:** Gel stub splice kit insulates, seals and protects stub splice connections up to 1,000 volts.
- **Installation:** To install, simply push the cover down over the connection and snap the clamp closed. Kit includes a UL listed connector for use with copper and/or aluminum conductors, a gel filled cap and a cap clamp.

#### FEATURES

- Perfect for street light connections.
- Accepts wires from #14 to 2/0 AWG (feeder cable). Use the single port that accepts #14 to #6 AWG to power the light.
- Specially formulated material provides excellent abrasion resistance, insulation value and UV resistance.
- The cap is clear to allow visual inspection of connector positioning during installation and connector performance during service life.
- Corrosion protection is provided by the sealant gel.

| CAT. NO             | WIRE RANGE |          | LENGTH (L) (IN.)  | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | TORQUE VALUE  |               | STD. CTN. QTY. |
|---------------------|------------|----------|---|-----------------|------------------|---------------|---------------|----------------|
|                     | HOLE A     | HOLE B   |   |                 |                  | HOLE A        | HOLE B        |                |
| ESSLK-2/0           | 14-2/0 AWG | 6-14 AWG | 2.760   | 1.660           | 1.185            | 120-180IN/Lbs | 120-150IN/Lbs | 3              |
| TESTING             |            |          | CONDITIONS  |                 |                  |               |               |                |
| Chemical Resistance |            |          | Astm D543, Sulfuric Acid, Sodium Hydroxide, Transformer And Motor Oil |                 |                  |               |               |                |
| Ozone Resistance    |            |          | Astm D1149, 120 Hours @ 40°C, 50Pphm                                  |                 |                  |               |               |                |
| Accelerated Aging   |            |          | Astm D2671  |                 |                  |               |               |                |
| Uv Resistance       |            |          | Astm G154, Uvb, 4,000 Hours On/Off Cycle                              |                 |                  |               |               |                |
| Abrasion Resistance |            |          | 2040 Gm Wt., 4,000 Cycles, 5% Max Thickness Loss                      |                 |                  |               |               |                |

# WIRE MANAGEMENT

## H-Tap Gel Splice Covers with Connector

### Easy-Splice™

#### ESGHS Series

### SPECIFICATIONS

- **Temperature Rating:** -40 °C to 90 °C.
- 1000V, UV resistant.
- Qualified to ANSI C119.1-1986 for underground splicing.
- **Application:** The low-voltage H-frame closure is ideal for both underground and overhead applications and is especially useful for street lighting applications.
- **Installation:** To install, simply place the connection on the closure and press the closure together.

### FEATURES

- Low-voltage H-frame closure insulates and seals low-voltage cable-taps and and splices made with H-frame compression connectors.
- The closure utilizes sealing gel material to seal and protect the connection from moisture ingress, corrosion and pollution.
- H-tap gel splice covers do not include connector.



| CAT. NO                             | FIG. NO        | WIRE RANGE  |          | LENGTH (L) (IN.)  | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|-------------------------------------|----------------|-------------|----------|-------------------|-----------------|------------------|----------------|
|                                     |                | MIN         | TAP      |                   |                 |                  |                |
| ESGHS-BG                            | 1              | 6-2 AWG     | 14-8 AWG | 2.700             | 1.583           | 1.055            | 3              |
| ESGHS-O                             | 2              | 2-2/0 AWG   | 14-6 AWG | 4.230             | 1.988           | 1.083            | 3              |
| ESGHS-N                             | 3              | 350 MCM     | 4/0 AWG  | 6.000             | 3.240           | 2.110            | 3              |
| <b>ESGHS-O APPROVED CONNECTORS</b>  |                |             |          |                   |                 |                  |                |
| Blackburn WR139                     | Burndy YHO-1   | Homac OB22  |          | <b>NSi WRD139</b> |                 | T&B 63110        |                |
| Blackburn WR159                     | Burndy YHO-2   | Homac OB44  |          | <b>NSi WRD159</b> |                 | UTILCO HT1       |                |
| Blackburn WR179                     | Burndy YHO 100 | Homac OB102 |          | <b>NSi WRD179</b> |                 | UTILCO HT2       |                |
| Blackburn WR199                     | Burndy YHO 125 | Homac OB103 |          | <b>NSi WRD199</b> |                 |                  |                |
| Burndy YHO 150                      |                |             |          |                   |                 |                  |                |
| <b>ESGHS-BG APPROVED CONNECTORS</b> |                |             |          |                   |                 |                  |                |
| Blackburn WR9                       |                |             |          | NSi WR9           |                 |                  |                |
| Burndy YPC2A8U                      |                |             |          | T&B 63105         |                 |                  |                |
| Homac UB214                         |                |             |          |                   |                 |                  |                |

# WIRE MANAGEMENT

## Push-On Gel Stub Splice Kits

### Easy-Splice™

#### GSS Series

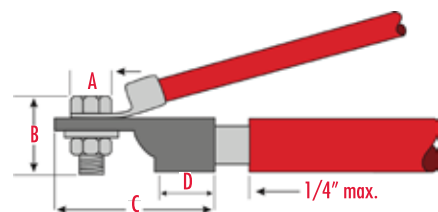


### SPECIFICATIONS

- cULus Listed.
- **Temperature Rating:** 105 °C.
- **Application:** Insulate, seal, and protect stub splice connections up to 1,000 volts. The robust yet compact design is engineered to handle the harsh environment of motor and many other connection applications (including street lights).
- **Installation:** GSS connector kits provide the fastest installation. Simply slide the cover down over the connection and snap the clamp closed. Sealant gel is already in the cap.

### FEATURES

- Quickly and conveniently insulate, seal, and protect stub splice connections up to 1,000 volts.
- Specially formulated material provides excellent abrasion resistance, insulation value, and UV resistance.
- Each cap size is designed to fit a wide range of cable sizes, the expandable design keeps the cap as small as possible allowing it to expand only as much as needed to fit.
- The GSS-10 kit is designed for three phases in one kit.
- It includes one gel filled cap, one cap clamp, and one phase separator.
- The remaining kits include three of each – one per phase.



| CAT. NO. | WIRE RANGE  | MAX. BOLT DIMENSION |                  | MAX. LUG DIMENSION     |                         | STD. CTN. QTY. |
|----------|-------------|---------------------|------------------|------------------------|-------------------------|----------------|
|          |             | WIDTH (A) (IN.)     | LENGTH (B) (IN.) | TOTAL LENGTH (C) (IN.) | BARREL LENGTH (D) (IN.) |                |
| GSS-10   | 16-10 AWG   | 0.375               | 0.500            | 1.000                  | 0.500                   | 5              |
| GSS-2    | 8-2 AWG     | 0.625               | 1.000            | 2.000                  | 1.000                   | 5              |
| GSS-4/0  | 2-4/0 AWG   | 0.850               | 1.300            | 3.000                  | 1.500                   | 5              |
| GSS-500  | 250-500 MCM | 1.100               | 1.850            | 5.000                  | 2.000                   | 5              |

WIRE MANAGEMENT

# WIRE MANAGEMENT

## Direct Burial Roll-On Splice Sleeve

### Easy-Splice™

#### ROS Series



#### SPECIFICATIONS

- UL Listed and CSAus.
- Qualified to ANSI C119.1-1986. CSA certified to C22.2 No. 198.2. UL 486D listed, suitable for direct burial.
- **Application:** For use on standard poly or elastomeric-insulated cables. Insulates and seals in-line compression connectors or terminal lugs. Cable can be energized immediately.

#### FEATURES

- Easy “roll-on” way to insulate and seal
- cable connections up to 1,000 volts.
- The gripping force of the EPDM elastomer combines with high performance sealant to form a water resistant, UV resistant insulating sleeve appropriate for direct burial application over in-line compression connectors.
- Ideal for use where gas or electric heating devices are not approved.
- RUS accepted for use as a secondary tap or splice cover.
- Each kit includes one Easy-Splice™ sleeve and sealant strips.

| CAT. NO. | WIRE RANGE      | CABLE O.D.<br>(IN.) | SLEEVE LENGTH<br>(IN.) | MAX. CONNECTOR LENGTH<br>(IN.) | STD. CTN. QTY. |
|----------|-----------------|---------------------|------------------------|--------------------------------|----------------|
| ROS-2/0  | 8-2/0 AWG       | 0.22-0.68           | 8.00                   | 5.00                           | 5              |
| ROS-250  | 1/0 AWG-250 MCM | 0.50-0.90           | 9.50                   | 4.50                           | 5              |
| ROS-600  | 250-600 MCM     | 0.70-1.20           | 12.00                  | 7.00                           | 5              |

# WIRE MANAGEMENT

## Direct Burial Splice Kit with Rubber Cover

### Easy-Splice™

#### RSK Series



#### SPECIFICATIONS

- UL486D Listed. Sealed wire connector.
- Rating: 600V.
- Application: street lights, motor connection, irrigation systems, HVAC, outdoor lighting, and over wire nuts for a secure seal.

#### FEATURES

- Dual-rated for use with copper and aluminum cable, these kits consist of an in-line mechanical set-screw connector pre-filled with oxide inhibitor and an EPDM rubber insulating cover to ensure a watertight seal.

| CAT. NO. | WIRE RANGE        | CONNECTOR LENGTH (IN.) | STD. CTN. QTY. |
|----------|-------------------|------------------------|----------------|
| RSK-2/0  | #14 – 2/0 AWG     | 1.880                  | 12             |
| RSK-350  | #6 AWG – 350 MCM  | 3.000                  | 6              |
| RSK-500  | 2/0 AWG – 500 MCM | 3.190                  | 6              |
| RSK-750  | 250 MCM – 750 MCM | 6.250                  | 3              |

# WIRE MANAGEMENT

## Self Sealing UP Splice Kit & Hot Melt Sealant Sleeves

Easy-Splice™  
SKSS, HMSS Series



### SPECIFICATIONS

- UL Listed and CSAus.
- **Installation (SKSS):** Use a minimum of one sleeve for every two cable conductors. Install HWHS or CRS product over HMSS sealant sleeves to melt sealant sleeves and provide cable block.

### FEATURES

#### Self Healing (SKSS)

- Fully waterproof, submersible and re-enterable splice, through the use of uniquely designed interference fit covers.
- Kit comes complete with a connector, silicone and cover. AWG UF cable.

#### Hot Melt Sealing (SKSS)

- Used to provide a cable block in multi-conductor cables.



| CAT. NO.  | CERTIFICATION | FIG. NO. | NO. OF SLEEVES/CONDUCTORS                | LENGTH (IN.) | INSIDE DIA. (IN.) | WIRERANGE (IN.) | CONNECTOR LENGTH (IN.) | STD. CTN. QTY. |
|-----------|---------------|----------|--|--------------|-------------------|-----------------|------------------------|----------------|
| SKSS-2    | UL            | 1        | 2  | —            | —                 | 14/2-10/2       | 9.500                  | 12             |
| SKSS-3    | UL            | 2        | 3  | —            | —                 | 14/3-10/3       | 9.500                  | 12             |
| HMSS-4-40 | —             | 3        | #24 – #20 AWG: Use 1 Sleeve/2 Conductors | 1.75         | 0.160             | —               | —                      | 100            |
| HMSS-4-40 | —             | 3        | #14 – #12 AWG: Use 1 Sleeve/Conductor    | 1.75         | 0.160             | —               | —                      | 100            |

# WIRE MANAGEMENT

## Direct Burial/Submersible Splice Kits with Heat Shrink Easy-Splice™ SK Series



### SPECIFICATIONS

- UL Listed.
- Temperature Rating: 105 °C. 600V Max.

### FEATURES

#### Copper Butt Splice Kits (SKCB)

- Mechanical copper butt splice and a heavy wall heat shrink tubing to create a fully insulated splice for copper conductors only.

#### UF Cable Splice Kit (SKAB)

- For simplified splicing of UF cable designed with heavy wall heat shrink with sealant.
- This kit will accommodate 14/3 through 8/3 with ground UF cable and create a direct burial splice. Contains one four-position connector.

#### Dual Rated Butt Splice Kits (SKDB)

- Mechanical dual rated splice and matched heavy wall heat shrink tubing to create an insulated splice for copper and/or aluminum cables.

#### UF Stretcher Kit (SKUF)

- Eliminates the need for using two connectors and a short piece of cable when repairing damaged UF cable.
- Includes one 11.5" connector that will accommodate 14/3 without GRD minimum and 8/3 with GRD maximum. 600 Volt, 105°C.
- Utilizes heavy wall shrink with sealant for a quick and reliable repair.

| CAT. NO. | RANGE              | STD. CTN. QTY. |
|----------|--------------------|----------------|
| SKCB-8   | #14 to #8 AWG      | 24             |
| SKCB-2   | #8 to #2 AWG       | 24             |
| SKAB-2   | #8 to #2 AWG       | 24             |
| SKAB-0   | #6 to 1/0 AWG      | 24             |
| SKAB-250 | 1/0 AWG to 250 MCM | 12             |
| SKDB     | 14/3 to 8/3        | 24             |
| SKUF     | 14/3 to 8/3        | 12             |



# WIRE MANAGEMENT

## Heat Shrinkable End Caps

Easy-Splice™

HSC Series



### SPECIFICATIONS

- HSC end sealing caps are qualified to ANSI C119.
- 1-1986 and rated to ICEA electrical withstand test for 1,000 volts.

### FEATURES

- These caps replace greases, tapes, epoxy, encapsulation, or dips. In most sizes, installation may be accomplished in less than one minute.
- Heat-shrinkable end caps provide for efficient and positive cable end sealing.
- Made of thermally stabilized polyolefin, the interior of the HSC is coated with a meltable sealant to assure a watertight seal, complete insulation, abrasion and corrosion resistance.
- Seals may be affected over lead, steel, aluminum, copper and all standard plastic and elastomeric insulating materials and conduit.
- HSC end sealing caps can be used as a live seal for cables carrying up to 1,000V.
- They can also be used as end seals for storing and pulling de-energized cable.

| CAT. NO. | CONDUCTOR SIZE  | GENERAL USE RANGE (IN.) |       | STD. CTN. QTY. |
|----------|-----------------|-------------------------|-------|----------------|
|          |                 | MAX.                    | MIN.  |                |
| HSC-70   | 6-3/0 AWG       | 0.700                   | 0.300 | 10             |
| HSC-125  | 4/0 AWG-750 MCM | 1.250                   | 0.650 | 10             |
| HSC-195  | 750-1500 MCM    | 1.950                   | 1.050 | 10             |
| HSC-450  | —               | 4.500                   | 2.950 | 2              |

# WIRE MANAGEMENT

## Heavy Wall Heat Shrink for Direct Burial & Submersible

### Easy-Splice™

#### HWHS Series



#### SPECIFICATIONS

- UL 486D Listed and CSA C22.2.
- **Temperature Rating:** 121-135 °C, 1000V.
- **Application:** Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.
- **Connectors Up To 6 Inches:** Recommended cut length = Connector length + 4 inches.
- **Connectors Over 6 Inches:** Recommended cut length = Connector length + 5 inches.

#### FEATURES

- Made of specially formulated polyolefin irradiated and thermally stabilized to give the material "elastic memory".
- When a proper amount of heat is directly applied to the shrink sleeve, it will permanently shrink to its original unexpanded diameter tightly cover and "mold" itself into irregular shapes.
- The interior of the sleeve is coated with an adhesive that assures a watertight seal after shrinking.
- For use on standard poly- or elastomeric-insulated/jacketed cables or lead-jacketed cables, which may include aluminum or steel armoring.
- RUS accepted for use as a secondary tap or splice cover. May be used for jacket repair on cables up to 35 kV.

| CAT. NO.     | SEALABLE WIRE RANGE | LENGTH (IN.) | GENERAL USE RANGE (IN.) |          | MAX. CONNECTOR O.D. (IN.) | MIN. SEAL LENGTH PER SIDE (IN.) | STD. PKG. QTY. |
|--------------|---------------------|--------------|-------------------------|----------|---------------------------|---------------------------------|----------------|
|              |                     |              | RECOVERED               | EXPANDED |                           |                                 |                |
| HWHS14-6-6   | 14-6 AWG            | 6            | 0.130                   | 0.390    | 0.290                     | 1.500                           | 3              |
| HWHS14-6-12  | 14-6 AWG            | 12           | 0.130                   | 0.390    | 0.290                     | 1.500                           | 3              |
| HWHS14-6-48  | 14-6 AWG            | 48           | 0.130                   | 0.390    | 0.290                     | 1.500                           | 3              |
| HWHS8-2-6    | 8-2 AWG             | 6            | 0.170                   | 0.550    | 0.410                     | 2.000                           | 3              |
| HWHS8-2-12   | 8-2 AWG             | 12           | 0.170                   | 0.550    | 0.410                     | 2.000                           | 3              |
| HWHS8-2-48   | 8-2 AWG             | 48           | 0.170                   | 0.550    | 0.410                     | 2.000                           | 3              |
| HWHS6-40-4   | 6-4/0 AWG           | 4            | 0.250                   | 0.860    | 0.690                     | 2.000                           | 3              |
| HWHS6-40-6   | 6-4/0 AWG           | 6            | 0.250                   | 0.860    | 0.690                     | 2.000                           | 3              |
| HWHS6-40-9   | 6-4/0 AWG           | 9            | 0.250                   | 0.860    | 0.690                     | 2.000                           | 3              |
| HWHS6-40-12  | 6-4/0 AWG           | 12           | 0.250                   | 0.860    | 0.690                     | 2.000                           | 3              |
| HWHS6-40-48  | 6-4/0 AWG           | 48           | 0.250                   | 0.860    | 0.690                     | 2.000                           | 3              |
| HWHS2-500-4  | 2 AWG - 500 MCM     | 4            | 0.350                   | 1.220    | 1.060                     | 2.000                           | 3              |
| HWHS2-500-6  | 2 AWG - 500 MCM     | 6            | 0.350                   | 1.220    | 1.060                     | 2.000                           | 3              |
| HWHS2-500-8  | 2 AWG - 500 MCM     | 8            | 0.350                   | 1.220    | 1.060                     | 2.000                           | 3              |
| HWHS2-500-9  | 2 AWG - 500 MCM     | 9            | 0.350                   | 1.220    | 1.060                     | 2.000                           | 3              |
| HWHS2-500-12 | 2 AWG - 500 MCM     | 12           | 0.350                   | 1.220    | 1.060                     | 2.000                           | 3              |
| HWHS2-500-48 | 2 AWG - 500 MCM     | 48           | 0.350                   | 1.220    | 1.060                     | 2.000                           | 3              |

# WIRE MANAGEMENT

## Heavy Wall Heat Shrink for Direct Burial & Submersible

### Easy-Splice™

#### HWHS Series Cnt'd



### SPECIFICATIONS

- UL 486D Listed and CSA C22.2.
- **Temperature Rating:** 121-135 °C, 1000V.
- **Application:** Qualified to ANSI C119.1-1986 for underground splicing. Insulate and seal buried electrical connections rated up to 1,000 volts.
- **Connectors Up To 6 Inches:** Recommended cut length = Connector length + 4 inches.
- **Connectors Over 6 Inches:** Recommended cut length = Connector length + 5 inches.

### FEATURES

- Made of specially formulated polyolefin irradiated and thermally stabilized to give the material "elastic memory".
- When a proper amount of heat is directly applied to the shrink sleeve, it will permanently shrink to its original unexpanded diameter tightly cover and "mold" itself into irregular shapes.
- The interior of the sleeve is coated with an adhesive that assures a watertight seal after shrinking.
- For use on standard poly- or elastomeric-insulated/jacketed cables or lead-jacketed cables, which may include aluminum or steel armoring.
- RUS accepted for use as a secondary tap or splice cover. May be used for jacket repair on cables up to 35 kV.

| CAT. NO.         | SEALABLE WIRE RANGE | LENGTH (IN.) | GENERAL USE RANGE (IN.) |          | MAX. CONNECTOR O.D. (IN.) | MIN. SEAL LENGTH PER SIDE (IN.) | STD. PKG. QTY. |
|------------------|---------------------|--------------|-------------------------|----------|---------------------------|---------------------------------|----------------|
|                  |                     |              | RECOVERED               | EXPANDED |                           |                                 |                |
| HWHS20-750-6     | 2/0 AWG - 750 MCM   | 6            | 0.510                   | 1.730    | 1.300                     | 2.000                           | 3              |
| HWHS20-750-9     | 2/0 AWG - 750 MCM   | 9            | 0.510                   | 1.730    | 1.300                     | 2.000                           | 3              |
| HWHS20-750-12    | 2/0 AWG - 750 MCM   | 12           | 0.510                   | 1.730    | 1.300                     | 2.000                           | 3              |
| HWHS20-750-48    | 2/0 AWG - 750 MCM   | 48           | 0.510                   | 1.730    | 1.300                     | 2.000                           | 3              |
| HWHS250-1000-6   | 250-1000 MCM        | 6            | 0.700                   | 1.960    | 1.500                     | 2.000                           | 3              |
| HWHS250-1000-9   | 250-1000 MCM        | 9            | 0.700                   | 1.960    | 1.500                     | 2.000                           | 3              |
| HWHS250-1000-12  | 250-1000 MCM        | 12           | 0.700                   | 1.960    | 1.500                     | 2.000                           | 3              |
| HWHS250-1000-48  | 250-1000 MCM        | 48           | 0.700                   | 1.960    | 1.500                     | 2.000                           | 3              |
| HWHS500-1500-9   | 500-1500 MCM        | 9            | 0.860                   | 2.480    | 1.840                     | 2.500                           | 3              |
| HWHS500-1500-12  | 500-1500 MCM        | 12           | 0.860                   | 2.480    | 1.840                     | 2.500                           | 3              |
| HWHS500-1500-48  | 500-1500 MCM        | 48           | 0.860                   | 2.480    | 1.840                     | 2.500                           | 3              |
| HWHS800-2000-12  | 800-2000 MCM        | 12           | 1.290                   | 3.930    | —                         | 2.500                           | 3              |
| HWHS800-2000-48  | 800-2000 MCM        | 48           | 1.290                   | 3.930    | —                         | 2.500                           | 3              |
| HWHS1500-2500-12 | 1500-2500 MCM       | 12           | 1.490                   | 4.640    | —                         | 2.500                           | 3              |
| HWHS1500-2500-48 | 1500-2500 MCM       | 48           | 1.490                   | 4.640    | —                         | 2.500                           | 3              |

# WIRE MANAGEMENT

## Thin-Wall Heat Shrink Kits

Easy-Splice™

THK Series



### SPECIFICATIONS

- UL Recognized.
- Temperature Rating: 125 °C. 600V Max.

### FEATURES

- Kits have been carefully constructed to include the most common sizes and types in their category.
- Cases are made of extremely durable polypropylene and have heat sealed hinges.
- Kits provide the ultimate in organization and convenience.
- Clearly labeled on the inside lid for easy recognition, and convenient size for easy carrying/storing.

| KIT CAT. NO. | KIT CAT. NO. | KIT CONTENTS |      | LENGTHS (IN.) | STD. CTN. QTY. |
|--------------|--------------|--------------|------|---------------|----------------|
|              |              | CAT. NO.     | QTY. |               |                |
| THK          | 1            | TWHS-125-6   | 25   | 6             | 1              |
|              |              | TWHS-187-6   | 25   | 6             | 1              |
|              |              | TWHS-250-6   | 20   | 6             | 1              |
|              |              | TWHS-375-6   | 12   | 6             | 1              |
|              |              | TWHS-500-6   | 7    | 6             | 1              |
|              |              | TWHS-750-6   | 5    | 6             | 1              |

WIRE MANAGEMENT

# WIRE MANAGEMENT

## Heavy-Wall Heat Shrink Kits

### Easy-Splice™

#### HHK Series



#### SPECIFICATIONS

- UL Listed and CSAus.

#### FEATURES

- Kits have been carefully constructed to include the four most common sizes of heavy wall heat shrink 6" lengths.
- Sealant included.

| KIT CAT. NO. | CAT. NO.     | SEALABLE WIRE RANGE | LENGTH (IN.) | GENERAL USE RANGE (IN.) |          | MAX. CONNECTOR O.D. | MIN. SEAL LENGTH PER SIDE | STD. CTN. QTY. |
|--------------|--------------|---------------------|--------------|-------------------------|----------|---------------------|---------------------------|----------------|
|              |              |                     |              | RECOVERED               | EXPANDED |                     |                           |                |
| HHK          | HWHS8-2-6    | 8-2 AWG             | 6            | 0.170                   | 0.550    | 0.410               | 2.000                     | 9              |
|              | HWHS6-40-6   | 6-4/0 AWG           | 6            | 0.250                   | 0.860    | 0.690               | 2.000                     | 3              |
|              | HWHS2-500-6  | 2 AWG - 500 MCM     | 6            | 0.350                   | 1.220    | 1.060               | 2.000                     | 3              |
|              | HWHS20-750-6 | 2/0 AWG - 750 MCM   | 6            | 0.510                   | 1.730    | 1.300               | 2.000                     | 3              |

# WIRE MANAGEMENT

## Thin-Wall Tubing

### Easy-Splice™

#### TWHS Series



#### SPECIFICATIONS

- UL Recognize.
- Temperature Rating: 125 °C. 600V Max.
- Black, White and colored thin-wall tubing meet MIL-DTL-23053/5, Class 1.
- Clear meets MIL-DTL-23053/5, Class 2 and is not flame retardant.

#### FEATURES

- Flexible flame-retardant, thin wall, general purpose heat-shrinkable polyolefin tubing has a 2:1 shrink ratio.
- Used for electrical insulation, wire harness bundling, wire jacket marking and color coding, it also splices and makes functional terminations.
- Standard packaging is either 6" lengths in blister boxes, or in economical 25' spools.

| CAT. NO.     | EXPANDED I.D. | RECOVERED I.D. | NOMIINAL RECOVERED WALL THICKNESS | LENGTH (IN./FT.) | STD. PKG. QTY. |
|--------------|---------------|----------------|-----------------------------------|------------------|----------------|
| TWHS-046-6   | 0.046         | 0.230          | 0.016                             | 6"               | 15             |
| TWHS-046-48  | 0.046         | 0.230          | 0.016                             | 48"              | 1              |
| TWHS-063-6   | 0.063         | 0.031          | 0.017                             | 6"               | 15             |
| TWHS-063-48  | 0.063         | 0.031          | 0.017                             | 48"              | 1              |
| TWHS-063-25B | 0.063         | 0.031          | 0.017                             | 25' Spool        | 1              |
| TWHS-093-6   | 0.093         | 0.046          | 0.020                             | 6"               | 15             |
| TWHS-093-48  | 0.093         | 0.046          | 0.020                             | 48"              | 1              |
| TWHS-093-25B | 0.093         | 0.046          | 0.020                             | 25' Spool        | 1              |
| TWHS-125-6   | 0.125         | 0.062          | 0.020                             | 6"               | 15             |
| TWHS-125-48  | 0.125         | 0.062          | 0.020                             | 48"              | 1              |
| TWHS-125-25B | 0.125         | 0.062          | 0.020                             | 25' Spool        | 1              |
| TWHS-187-6   | 0.187         | 0.093          | 0.020                             | 6"               | 12             |
| TWHS-187-48  | 0.187         | 0.093          | 0.020                             | 48"              | 1              |
| TWHS-187-25B | 0.187         | 0.093          | 0.020                             | 25' Spool        | 1              |
| TWHS-187     | 0.187         | 0.093          | 0.020                             | 1,000' Spool     | 1              |
| TWHS-250-6   | 0.250         | 0.125          | 0.025                             | 6"               | 10             |
| TWHS-250-48  | 0.250         | 0.125          | 0.025                             | 48"              | 1              |
| TWHS-250-25B | 0.250         | 0.125          | 0.025                             | 25' Spool        | 1              |
| TWHS-250     | 0.250         | 0.125          | 0.025                             | 500' Spool       | 1              |

# WIRE MANAGEMENT

## Thin-Wall Tubing

Easy-Splice™

TWHS Series Cnt'd



### SPECIFICATIONS

- UL Recognize.
- Temperature Rating: 125 °C. 600V Max.
- Black, White and colored thin-wall tubing meet MIL-DTL-23053/5, Class 1.
- Clear meets MIL-DTL-23053/5, Class 2 and is not flame retardant.

### FEATURES

- Flexible flame-retardant, thin wall, general purpose heat-shrinkable polyolefin tubing has a 2:1 shrink ratio.
- Used for electrical insulation, wire harness bundling, wire jacket marking and color coding, it also splices and makes functional terminations.
- Standard packaging is either 6" lengths in blister boxes, or in economical 25' spools.

| CAT.NO.       | EXPANDED I.D. | RECOVERED I.D. | NOMIINAL RECOVERED WALL THICKNESS | LENGTH (IN/FT) | STD. CTN. QTY. |
|---------------|---------------|----------------|-----------------------------------|----------------|----------------|
| TWHS-312-6    | 0.312         | 0.156          | 0.025                             | 6"             | 10             |
| TWHS-312-48   | 0.312         | 0.156          | 0.025                             | 48"            | 1              |
| TWHS-312      | 0.312         | 0.156          | 0.025                             | 200' Spool     | 1              |
| TWHS-375-6    | 0.375         | 0.187          | 0.025                             | 6"             | 9              |
| TWHS-375-48   | 0.375         | 0.187          | 0.025                             | 48"            | 1              |
| TWHS-375-25B  | 0.375         | 0.187          | 0.025                             | 25' Spool      | 1              |
| TWHS-375      | 0.375         | 0.187          | 0.025                             | 200' Spool     | 1              |
| TWHS-500-6    | 0.500         | 0.250          | 0.025                             | 6"             | 8              |
| TWHS-500-48   | 0.500         | 0.250          | 0.025                             | 48"            | 1              |
| TWHS-500-25B  | 0.500         | 0.250          | 0.025                             | 25' Spool      | 1              |
| TWHS-500      | 0.500         | 0.250          | 0.025                             | 200' Spool     | 1              |
| TWHS-750-6    | 0.750         | 0.375          | 0.030                             | 6'             | 6              |
| TWHS-750-48   | 0.750         | 0.375          | 0.030                             | 48'            | 1              |
| TWHS-750-25B  | 0.750         | 0.375          | 0.030                             | 25' Spool      | 1              |
| TWHS-750-25W  | 0.750         | 0.375          | 0.030                             | 25' Spool      | 1              |
| TWHS-750      | 0.750         | 0.375          | 0.030                             | 100' Spool     | 1              |
| TWHS-1000-6   | 1.000         | 0.500          | 0.035                             | 6"             | 4              |
| TWHS-1000-48  | 1.000         | 0.500          | 0.035                             | 48"            | 1              |
| TWHS-1000-25B | 1.000         | 0.500          | 0.035                             | 25' Spool      | 1              |
| TWHS-1000     | 1.000         | 0.500          | 0.035                             | 100' Spool     | 1              |
| TWHS-1500-48  | 1.500         | 0.750          | 0.040                             | 48"            | 1              |
| TWHS-1500-25B | 1.500         | 0.750          | 0.040                             | 25' Spool      | 1              |
| TWHS-2000-48  | 2.000         | 1.000          | 0.045                             | 48"            | 1              |
| TWHS-2000-25B | 2.000         | 1.000          | 0.045                             | 25' Spool      | 1              |



# WIRE MANAGEMENT

## Oxide Inhibitor & Duct Sealing Compound

Inhibitors  
OX, DS Series

### FEATURES

#### Oxide Inhibitor (OX)

- Universal oxide inhibitor for aluminum and/or copper terminations.
- Remains stable over a wide temperature range.
- Supplied in clear, easy-squeeze bottles or tubes.

#### Duct Sealing Compound (DS)

- Intended for sealing around electrical service entries, junction boxes and other devices where weather-proofing is critical.
- Will stay soft and pliable for several years and has an excellent shelf life.
- Will not damage wire covers, glass, wood, painted surfaces, plastics or other materials it may contact.
- It is chemically inert, inhibiting no chemical activity and is nontoxic.
- Contains no asbestos or mineral fibers and no mineral oil which can shorten the effective life of the product.
- Remains pliable through a wide range of temperatures and will adhere to most clean dry surfaces.



| CAT. NO. | CERTIFICATION | FIG. NO. | DESCRIPTION                      | SIZE (OZ) | STD. CTN. QTY. |
|----------|---------------|----------|----------------------------------|-----------|----------------|
| OX-8     | —             | 1        | Oxide Inhibitor. Squeeze Bottle. | 8 oz.     | 12             |
| OX-4     | —             | 2        | Oxide Inhibitor. Squeeze Bottle. | 4 oz.     | 12             |
| OX-1     | —             | 3        | Oxide Inhibitor. Squeeze Tube.   | 3/4 oz.   | 100            |
| DS184    | UL            | 4        | Duct Seal — 1 Lb. Pkg.           | —         | 50             |
| DS185    | UL            | 5        | Duct Seal — 5 Lbs. Pkg.          | —         | 10             |

# WIRE MANAGEMENT

## Slyder™ Wire Lubricant

### Slyder™ Lubricant

#### SWL Series



#### FEATURES

- Superior gel lubricant that reduces surface tension on cable to the lowest level.
- Excellent adherence to cable ensures maximum performance and easier pulls.
- Maintains its lubricity even after drying and has excellent re-wetting characteristics.
- Non-toxic and non-flame propagating and can be used as part of a fire retardant installation.  
Does not contain any aromatic or petroleum derivative.

| CAT. NO. | FIG. NO. | DESCRIPTION | STD. CTN. QTY. |
|----------|----------|-------------|----------------|
| SWL-1Q   | 1        | 1 Quart     | 12             |
| SWL-1G   | 2        | 1 Gallon    | 4              |
| SWL-5G   | 3        | 5 Gallons   | 1              |

# WIRE MANAGEMENT

## Residential & Commercial Caulk, Pillows & Putty Pads

### FireStop™

#### FS Series



### SPECIFICATIONS

- UL Listed.

### FEATURES

- See individual features for each product on page 217.



| CAT. NO. | FIG. NO. | DESCRIPTION                              | WEIGHT (OZ) | LENGTH (IN.) | WIDTH (IN.) | HEIGHT (IN.) | STD. CTN. QTY. |
|----------|----------|--|-------------|--------------|-------------|--------------|----------------|
| FS-814P  | 1        | FireStop, Elastomeric.                   | 10          | –            | –           | –            | 12             |
| FS-814   | 2        | FireStop814™ Residential and Commercial. | 10          | –            | –           | –            | 12             |
| FS-136   | 3        | FireBlok136™ Residential Fire Block.     | 10          | –            | –           | –            | 12             |
| FSP      | 4        | Firestop Pillows.                        | –           | 8.000        | 4.000       | 2.000        | 25             |
| FSPP-1   | 5        | Fire Rated Putty Pad.                    | –           | 6.000        | 7.000       | –            | 20             |
| FSPP-2   | 5        | Fire Rated Putty Stick Pad.              | –           | 7.000        | 7.000       | –            | 20             |

# WIRE MANAGEMENT

## Residential & Commercial Caulk, Pillows & Putty Pads

FireStop™

FS Series



### FEATURES

#### FireStop™ 814P

- FireStop™ Intumescent Caulk is water-based, single component elastomeric sealant intended for use as a firestop system component. It forms an economical yet durable, flexible and watertight bond with most construction materials. It is applied independently for “caulk and walk” systems or over mineral wool or backer rod to seal the openings where building services such as pipes and cables penetrate fire rated assemblies. Will not crack or crumble as the physical properties remain stable over time. It tools easily and cleans up with water. May be applied by caulking gun or trowel. ASTM—E 814 and UL 1479.

#### FireStop814™ CAULK

- FireStop814™ Fire stopping caulk is a single component, non-combustible, non-intumescent material for residential and commercial applications. Colored red for easy inspection, FireStop814 creates an effective barrier against flames, smoke, and toxic gasses and has superior adhesion and gunnability. FireStop814™ is for use in annular spaces around wires and pipes, in one- and two-hour fire rated assemblies. It restores the integrity of firestops in residential and commercial construction. Meets UL 1479/ ASTM-E814 standards.

#### FireBlock136™ CAULK

- FireBlock136™ Fire-blocking caulk is a single component, non-combustible material for residential applications. Colored red for easy inspection, FireBlock136 creates an effective barrier against flames, smoke, and toxic gasses and has superior adhesion and gunnability. FireBlock136™ is for use in annular spaces around wires, pipes, ducts, vents and other penetrating items at ceiling and floor openings; and room to room in wood and steel frame constructions. It restores the integrity of fireblocks in one and two family construction. Exceeds ASTM-E136 standards for fireblocking residential requirements prescribed by all major-model building codes, and also meets or exceeds requirements of UBC, BOCA, SBC, IRC, NYS and MA codes. Meets UL 1479/ ASTM-E136 standards.

### FIRE RATED PUTTY PADS

- NSi Fire Rated Putty is a moldable non-curing, one-component fire rated material for through penetration fire stop systems. In the event of a fire, Putty will expand when exposed to fire, forming an insulating char, which prevents the spread of flames, smoke, gas and water through penetration openings. Installation is easy as there are no additives, there is no mixing and no curing time is required. The putty is applied by hand and adheres to all common building surfaces. Putty can be installed in confined or occupied spaces since there are no volatile solvents or asbestos fillers. NSi Putty systems are rated up to 3 hours in accordance with ASTM E 814, UL 1479 and ULC/CAN4-S115-M standards. NSi Fire Rated Putty is available in sticks or pads. Moldable Putty Pads are available in two sizes, 6" x 7" x 1/8" or 7" x 7" x 1/8", and are classified as a wall opening protective material. Use them to protect metal electrical cabinets, outlet boxes and mechanical cabinets. STC Rating 49.

#### FireBlock™ PILLOWS

- FireStop™ Pillows are a single step firestop system component. Intended for wall and/or floor openings through fire separations where temporary or permanent firestops are required. They are ideal where cable retrofitting is frequent and anticipated. Quick and clean single product installation. Self-supporting — no wire lath or mesh is required. They are to be packed tightly into the voids between penetrating items and the perimeter of the opening. During a fire, the intumescent component within each pillow dramatically expands to seal the opening from fire, thereby maintaining the integrity of the fire separation. FireStop Pillows consist of an intumescent layer sandwiched between non-combustible insulation, all enclosed in a hermetically sealed polyethylene shell. No sealant or putty is required. Easy to install, easy to remove — a quick and clean single product installation. ASTM E 814 and UL 1479.

# WIRE MANAGEMENT

## Ratings & UL Systems

FireStop™

### CONDUIT & EMT

| MAX.PEN. DIA.                  | RATING (HR.) | MAX. OPENING               | FLOOR OR WALL SYSTEM  | NSI FIRESTOP REQUIRED PRODUCT(S) | APPLICATION THICKNESS   | SYSTEM NO. | PAGE NO. |
|--------------------------------|--------------|----------------------------|---|----------------------------------|---|------------|----------|
| 6 in. conduit & EMT or smaller | 2            | 0 in to 7/8 in. annulus    | Floor - concrete (2-1/2 in. min.), Wall - concrete, concrete block or precast units | NSi FireStop Intumescent Caulk   | Min. 1/4 in. thick within annulus flush with top of floor or both surfaces of wall                                  | C-AJ-1511  | 362      |
| 6 in. conduit & EMT or smaller | 2            | 0 in. to 1/2 in. annulus   | Wall – gypsum board   | NSi FireStop Intumescent Caulk   | Min. 1-1/4 in. thick within annulus flush with both surfaces of wall  | W-L-1349   | 362      |
| 6 in. conduit & EMT or smaller | 1            | 1/4 in. to 1/2 in. annulus | Wall – gypsum board   | NSi FireStop Intumescent Caulk   | Min. 5/8 in. thick within annulus flush with both surfaces of wall  | W-L-1351   | 363      |
| 3 in. conduit & EMT or smaller | 2            | 0 in. to 1-3/4 in. annulus | Wall – gypsum board   | NSi FireStop Intumescent Caulk   | Min. 1-1/4 in. thick within annulus flush with both surfaces of wall  | W-L-1348   | 364      |
| 4 in. conduit & EMT or smaller | 1            | 0 in. to 1/2 in. annulus   | Floor – lumber<br>Ceiling – gypsum board  | NSi FireStop Intumescent Caulk   | Min. 3/4 in. thick within annulus on top of floor<br>Min. 5/8 in. thick within annulus on bottom surface of ceiling | F-C-1128   | 363      |

### CABLE LARGER OPENINGS

| TYPE OF PENETRATION                       | RATING (HR.) | MAX. OPENING             | FLOOR OR WALL SYSTEM                                   | NSI FIRESTOP REQUIRED PRODUCT(S) | APPLICATION THICKNESS   | SYSTEM NO. | PAGE NO. |
|---|--------------|--------------------------|--|----------------------------------|---|------------|----------|
| Coaxial, fiber optic & 24 AWG             | 3            | 288 sq. in.              | Floor – concrete,<br>Wall - concrete or concrete block | NSi FireStop Pillows             | Installed with 8 in. dimension projecting through floor or wall & centered within opening                             | C-AJ-4073  | 365      |
| Coaxial, fiber optic, 24 AWG & data cable | 3            | 288 sq. in.              | Floor – concrete,<br>Wall – concrete or concrete block | NSi FireStop Pillows             | Installed with 8 in. dimension projecting through floor or wall & centered within opening                             | C-AJ-4074  | 365      |
| Cables                                    | 1            | 0 in. to. 1/4 in annulus | Floor – lumber<br>Ceiling – gypsum board               | NSi FireStop Intumescent Caulk   | Min. 1-1/4 in. thick within annulus on top of floor<br>Min. 1/2 in. thick within annulus on bottom surface of ceiling | F-C-3084   | 361      |

### NON-METALLIC CONDUIT

| MAX. PEN. DIA.                               | RATING (HR.) | MAX. OPENING | FLOOR OR WALL SYSTEM                     | NSI FIRESTOP REQUIRED PRODUCT(S) | APPLICATION THICKNESS  | SYSTEM NO. | PAGE NO. |
|--|--------------|--------------|--|----------------------------------|--|------------|----------|
| 2, PVC, CPVC, ABS & Rigid conduit or smaller | 1            | 1/4 in.      | Floor – lumber<br>Ceiling - gypsum board | NSi FireStop Intumescent Caulk   | Min. 3/4 in. thick within annulus on top of floor.<br>Min. 5/8 in. thick within annulus on bottom surface of ceiling | F-C-2297   | 364      |

# WIRE MANAGEMENT

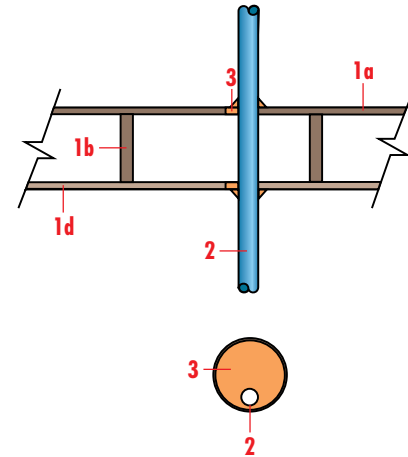
## UL System No. F-C-3084

### FireStop™

#### Instructions

F Rating – 1 hr., T Ratings – 3/4 hr. and 1 hr. (See Item 2)

1. Floor-Ceiling Assembly – The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design No. L512, L513 or L514 in the UL Fire Resistance Directory and shall include the following construction features:
  - a) Flooring System – Lumber or minimum 1/2 in. plywood subfloor with lumber or minimum 3/4 in. plywood finish floor or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of floor opening is 5/8 in.
  - b) Wood Joists – Nom. 2 x 10 in. lumber joists, spaced 16 in. oc. with nom. 1 x 3 in. lumber bridging and with ends firestopped.
  - c) Furring Channels (not shown) – Resilient galv. steel furring installed perpendicular to wood joist between wallboard and wood joist and spaced maximum 24 in. oc.
  - d) Wallboard, Gypsum – Nom. 4 ft. wide x 5/8 in. thick as specified in the individual floor-ceiling design. Wallboard attached to wood joists or furring channels as specified in the individual floor-ceiling design. Maximum diameter of ceiling opening is 5/8 in.
  
2. Cables – One cable to be installed either eccentrically or concentrically in opening with annular space between the cable and periphery of opening of min. 0 in. (point of contact) to maximum 14 in. Cable to be rigidly supported on both sides of floor-ceiling assembly. The following types of cables may be used:
  - a) Maximum 3/C (with ground) No. 12 AWG (or smaller) with polyvinyl chloride (PVC) insulation and jacket.
  - b) Maximum 3/C (with ground) No. 14 AWG (or smaller) with PVC jacketed aluminium or steel clad, Type RW90.
  - c) Type RG6U coaxial cable with fluorinated ethylene propylene insulation and jacket.
  - d) Maximum 2/C (with ground) No. 14 AWG (or smaller), type NM90, with nylon jacket.
  - e) Maximum 8/C No. 24 AWG (or smaller), type CMR MPR, with polyvinyl chloride (PVC) insulation and jacket.



The T Rating of the firestop system is dependent upon the type of cable used, as tabulated below:

| CABLE TYPE    | T-RATING (HR.) |
|---------------|----------------|
| a, b, c and e | 1              |
| d             | 3/4            |

3. Fill, void or cavity material – NSi FireStop Intumescent Caulk. On top of assembly, a minimum 1-1/4 in. thickness of fill material applied within the annulus on top surface of floor. On bottom assembly, a minimum 1/2 in. thickness of fill material applied within annulus on bottom surface of ceiling. Additional fill material to be installed such that a minimum 1/2 in. thick crown is formed around the through penetrant on both sides of floor-ceiling assembly.

# WIRE MANAGEMENT

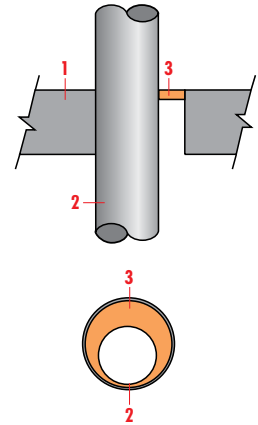
## UL System No. C-AJ-1511 & UL System NO. W-L-1349

### FireStop™ Instructions

#### UL SYSTEM NO. C-AJ-1511

F Rating – 2 hr., T Rating – 0 hr.

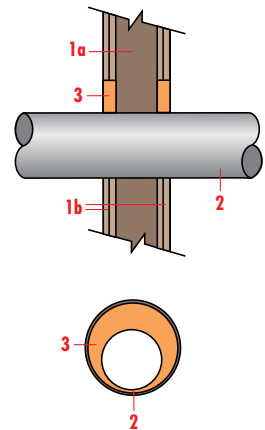
1. Floor or wall assembly – Minimum 2 1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete floor. Floor may also be constructed of any minimum 6 in. thick UL Classified hollow-core precast concrete units. Wall may also be constructed of any UL Classified concrete blocks. Maximum diameter of opening is 24 7/8 in. Maximum diameter of opening in floors constructed of hollow-core is 7 in. See Concrete Blocks (CAZT) or Precast Concrete Units (CFTV) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrant – One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space between the pipe or conduit and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 7/8 in. The following types and sizes of metallic pipes, conduits or tubing may be used:
  - a) Steel pipe – Nom. 24 in. diameter (or smaller) Schedule 10 (or heavier) steel pipe.
  - b) Iron pipe – Nom. 24 in. diameter (or smaller) cast or ductile iron pipe.
  - c) Conduit – Nom. 6 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
  - d) Copper pipe or tubing – Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing.
3. Fill, void or cavity material – NSi FireStop Intumescent Caulk. Minimum 1/2 in. thickness of caulk applied within the annulus, flush with top surface of floor or with both surfaces of wall. In floors constructed of hollow-core precast concrete units, fill material installed symmetrically on both sides of floor. Additional material installed to form a minimum 1/4 in. crown bead at the point contact location between the pipe and periphery of the opening. For vertical installations, sealant to be applied symmetrically on both sides of wall.



#### UL SYSTEM NO. W-L-1349

F Rating – 2 hr., T Rating – 0 hr.

1. Wall Assembly – The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
  - a) Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. oc. Steel studs to be minimum 3 5/8 in. wide and spaced maximum 24 in. oc. When steel studs are used and the diameter of openings exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between vertical studs and screw-attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diameter of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
  - b) Wallboard, Gypsum – 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is 6 5/8 in.
2. Through Penetrant – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduits or tubing and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 1/2 in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
  - a) Steel pipe – Nom. 24 in. diameter (or smaller) Schedule 5 (or heavier) steel pipe.
  - b) Iron pipe – Nom. 24 in. diameter (or smaller) cast or ductile iron pipe.
  - c) Conduit – Nom. 6 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
  - d) Copper Tubing – Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing.
  - e) Copper Pipe – Nom. 6 in. diameter (or smaller) Regular (or heavier) copper pipe.
3. Fill, void or cavity material – Sealant – NSi FireStop Intumescent Caulk. Minimum 1 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum wall board, a minimum 1/2 in. diameter bead of fill material shall be applied at the gypsum wallboard/through penetrant interface on both surfaces of wall.





# WIRE MANAGEMENT

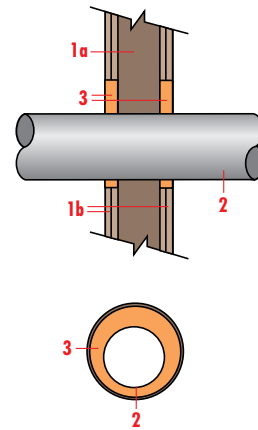
## UL System No. W-L-1351 & UL System NO. W-L-1128

### FireStop™ Instructions

#### UL SYSTEM NO. W-L-1351

F Rating – 1 hr., T Rating – 0 hr.

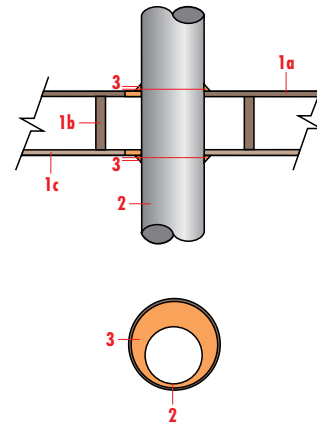
1. Wall Assembly – The 1 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
  - a) Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. oc. Steel studs to be minimum  $3\frac{5}{8}$  in. wide and spaced maximum 24 in. oc. When steel studs are used and the diameter of openings exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between vertical studs and screw-attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diameter of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
  - b) Wallboard, Gypsum –  $\frac{5}{8}$  in. thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is  $24\frac{3}{4}$  in. for steel stud walls. Maximum diameter opening is  $14\frac{1}{2}$  in. for wood stud walls.
2. Through Penetrant – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduits or tubing and the periphery of opening shall be a minimum of  $\frac{1}{4}$  in. to a maximum of  $\frac{1}{2}$  in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
  - a) Steel pipe – Nom. 24 in. diameter (or smaller) Schedule 5 (or heavier) steel pipe.
  - b) Iron pipe – Nom. 24 in. diameter (or smaller) cast or ductile iron pipe.
  - c) Conduit – Nom. 6 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
  - d) Copper Tubing – Nom. 6 in. diameter (or smaller) Type L (or heavier) copper tubing.
  - e) Copper Pipe – Nom. 6 in. diameter (or smaller) Regular (or heavier) copper pipe.
3. Fill, void or cavity material – Sealant – NSi FireStop Intumescent Caulk. Minimum  $\frac{5}{8}$  in. thickness of fill material applied within the annulus, flush with both surfaces of wall.



#### UL SYSTEM NO. F-C-1128

F Rating – 1 hr., T Rating – 0 hr.

1. Floor-Ceiling Assembly – The 1 hr. fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - a) Flooring System – Lumber or plywood subfloor with finish floor of lumber, plywood or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of floor opening is 5 in.
  - b) Wood Joists – Nom. 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members with bridging as required and with ends firestopped.
  - c) Wallboard, Gypsum – Nom. 4 ft. wide x  $\frac{5}{8}$  in. thick as specified in the individual floor-ceiling design. Wallboard nailed to wood joists.
2. Through Penetrant – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of  $\frac{1}{2}$  in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
  - a) Steel pipe – Nom. 4 in. diameter (or smaller) Schedule 10 (or heavier) steel pipe.
  - b) Iron pipe – Nom. 4 in. diameter (or smaller) cast or ductile iron pipe.
  - c) Conduit – Nom. 4 in. diameter (or smaller) steel electrical metallic tubing or steel conduit.
  - d) Copper Tubing – Nom. 4 in. diameter (or smaller) Type L (or heavier) copper tubing.
  - e) Copper Pipe – Nom. 4 in. diameter (or smaller) Regular (or heavier) copper pipe.
3. Fill, void or cavity material – NSi FireStop Intumescent Caulk. Minimum  $\frac{3}{4}$  in. thickness of fill material applied within the annulus on top surface of floor. Minimum  $\frac{5}{8}$  in. thickness of fill material applied within annulus on bottom surface of ceiling. Additional fill material to be installed such that a minimum  $\frac{1}{2}$  in. thick crown is formed around the through penetrant on top surface of floor-ceiling assembly.



# WIRE MANAGEMENT

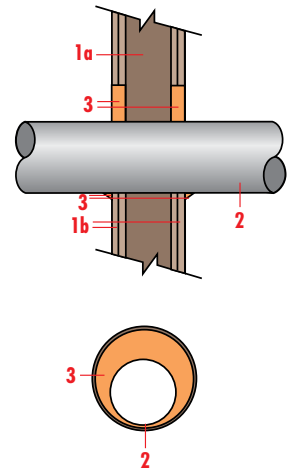
## UL System No. W-L-1348 & UL System No. F-C-2297

FireStop™  
Instructions

### UL SYSTEM NO. W-L-1348

F Rating – 2 hr., T Rating – 0 hr.

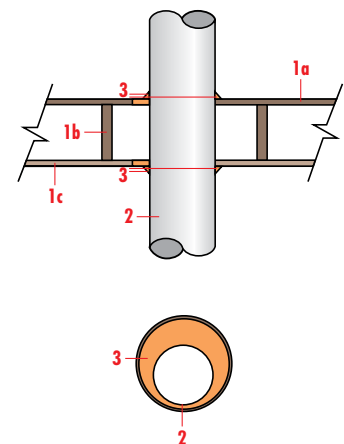
1. Wall Assembly – The 2 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
  - a) Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2 x 4 in. lumber spaced 16 in. oc. with nom. 2 x 4 in. lumber end plates and cross braces. Steel studs to be minimum 3 5/8 in. wide and spaced maximum 24 in. oc. When steel studs are used and the diameter of openings exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between vertical studs and screw-attached to the studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diameter of the penetrating item, such that when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
  - b) Wallboard, Gypsum – 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wall board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Maximum diameter of opening is 5 in.
2. Through Penetrant – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduits or tubing and the periphery of opening shall be a minimum of 0 in. (point contact) to a maximum of 1 3/4 in. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
  - a) Steel pipe – Nom. 3 in. diameter (or smaller) Schedule 5 (or heavier) steel pipe.
  - b) Conduit – Nom. 3 in. diameter (or smaller) steel electrical metallic tubing or galv. steel conduit.
  - c) Copper Tubing – Nom. 3 in. diameter (or smaller) Type L (or heavier) copper tubing.
  - d) Copper Pipe – Nom. 3 in. diameter (or smaller) Regular (or heavier) copper pipe.
3. Fill, void or cavity material – Sealant – NSi FireStop Intumescent Caulk. Minimum 1 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum wall board, a minimum 3/8 in. diameter bead of fill material shall be applied at the gypsum wallboard/through penetrant interface on both surfaces of wall.



### UL SYSTEM NO. F-C-2297

F Rating – 1 hr., T Rating – 0 hr.

1. Floor-Ceiling Assembly – The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L505, L511, or L536 Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - a) Flooring System – Lumber or plywood subfloor with finish floor of lumber, plywood or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of opening is 2.875 in.
  - b) Wood Joists – Nom. 2 x 10 in. lumber joists spaced 16 in. oc. with nom. 1 x 3 in. lumber bridging and with ends firestopped
  - c) Wallboard, Gypsum – Nom. 4 ft. wide x 5/8 in. thick as specified in the individual floor-ceiling design. Maximum diameter of ceiling opening is 2.875 in.
2. Through Penetrant – One nonmetallic pipe or conduit to be installed approximately midway between wood joists and centered within the firestop system. Diameter of openings hole-sawed through flooring system and one layer through gypsum wallboard ceiling to be nom. 1/2 in. larger than the outside diameter of through penetrant. Pipe or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
  - a) Polyvinyl Chloride (PVC) Pipe – Nom. 2 in. diameter (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
  - b) Acrylonitrile Butadiene Styrene (ABS) Pipe – Nom. 2 in. diameter (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
  - c) Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nom. 2 in. diameter (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
  - d) Rigid Nonmetallic Conduit – Nom. 2 in. diameter (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).
3. Fill, void or cavity material – NSi FireStop Intumescent Caulk. Minimum 3/4 in. thickness of fill material applied within the annulus on top surface of floor. Minimum 5/8 in. thickness of fill material applied within annulus on bottom surface of ceiling or top plate of chase wall assembly. Additional fill material to be installed such that a minimum 1/8 in. thick crown is formed around the through penetrant on top surface of floor-ceiling assembly.



# WIRE MANAGEMENT

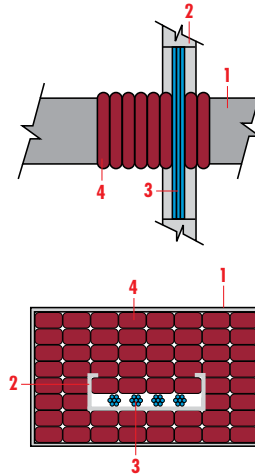
## UL System No. C-A-4073 & UL System NO. C-AJ-4074

### FireStop™ Instructions

#### UL SYSTEM NO. C-A-4073

F Rating – 3 hr., T Rating – 1½ hr.

1. Floor or wall assembly – Minimum 5 in. thick reinforced normal weight concrete. Wall may also be constructed of any UL Classified concrete blocks. Maximum area of opening is 288 sq. in. with a maximum dimension of 24 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Cable Tray – Maximum 12 in. wide by maximum 3<sup>5</sup>/<sub>8</sub> in. deep (maximum 3 in. deep loading depth) trough type cable tray with channel-shaped side rails formed of No. 18 MSG (0.048 in.) thick galvanized steel and with 4 in. wide by No. 18 MSG (0.048 in.) thick ventilated type rungs spaced 10 in. oc. Maximum one cable tray to be installed either concentrically or eccentrically within the firestop system. The annular space between the cable tray and the periphery of opening shall be a minimum of 1½ in. to a maximum of 7 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Cables – Maximum four individual cable bundles, each containing a maximum seven cables, to be installed within cable tray. Maximum diameter of individual cable bundles shall be 2 in. Cable bundles to be spaced a minimum 1½ in. to a maximum 3 in. oc. Any combination of the following types and sizes of cables may be used:
  - a) Maximum 3 pair No. 24 AWG (or smaller) copper conductor cables with polyvinyl chloride (PVC) insulation and jacket.
  - b) Maximum 2 fiber 62.5/125 µm fiber optic cable with PVC insulation and jacket.
  - c) Maximum RG/U (or smaller) coaxial copper conductor cable with fluorinated ethylene insulation and jacket materials.
4. Fill, Void or Cavity Materials – NSi FireStop Pillows. Maximum 8 in. long x 4 in. wide x 2 in. deep thick pillow-like material. Pillows shall be tightly packed into opening to fill the annular space between cables and periphery of opening and between cable tray and periphery of opening. Pillows installed with 8 in. dimension projecting through floor or wall and centered within the opening.

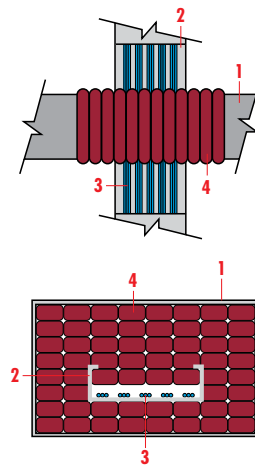


#### UL SYSTEM NO. C-AJ-4074

(For Horizontal or Vertical Separations)

F Rating – 3 hr., T Rating – 0 hr.

1. Floor or wall assembly – Minimum 4½ in. thick reinforced lightweight (100 pcf) concrete. Maximum size of opening is 288 sq. in. with maximum dimension of 24 in. Wall may also be constructed of any UL Classified concrete blocks. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Cable Tray – Maximum 12 in. wide by maximum 3<sup>5</sup>/<sub>8</sub> in. deep (maximum 3 in. deep loading depth) trough type cable tray with channel-shaped side rails formed of No. 18 MSG (0.048 in.) thick galvanized steel and with 4 in. wide by No. 18 MSG (0.048 in.) thick ventilated type rungs spaced 10 in. oc. Maximum one cable tray to be installed either concentrically or eccentrically within the firestop system. The annular space between the cable tray and the periphery of opening shall be a minimum of 1½ in. to a maximum of 7 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Cables – Aggregate cross-sectional area of cables in cable tray to be 25% of the cross-sectional area of the cable tray based on a maximum 3 in. cable loading within the cable tray. Any combination of the following types and sizes of cables may be used:
  - a) Maximum 287 lengths of cables, each with 3 pair No. 24 AWG Type D telephone cables with PVC insulation and jacket.
  - b) Maximum 24 lengths of double stranded fiber optic cables, 1/8 in. diameter with PVC insulation and jacket.
  - c) Maximum 12 lengths of coaxial cable, 1/4 in. diameter, 22 AWG solid copper conductor with polyethylene insulation and PVC jacket.
  - d) Maximum 12 lengths of data cable, Alcatel 380100, E107890, 24 AWG CMR, with PVC jacket.
4. Fill, Void or Cavity Materials – NSi FireStop Pillows. Maximum 8 in. long x 4 in. wide x 2 in. deep thick pillow-like material. Pillows shall be tightly packed into opening to fill the annular space between cables and periphery of opening and between cable tray and periphery of opening. Pillows installed with 8 in. dimension projecting through floor or wall and centered within the opening.



# WIRE MANAGEMENT

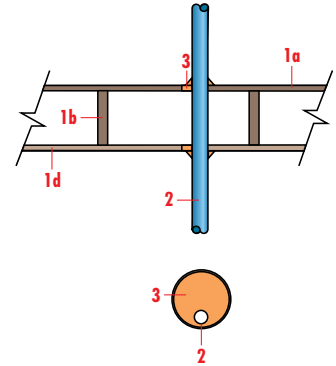
## UL System No. F-C-3084

FireStop™  
Instructions

### UL SYSTEM NO. F-C-3084

F Rating – 1 hr., T Ratings – ¾ hr. and 1 hr. (See Item 2)

1. Floor-Ceiling Assembly – The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design No. L512, L513 or L514 in the UL Fire Resistance Directory and shall include the following construction features:
  - a) Flooring System – Lumber or minimum ½ in. plywood subfloor with lumber or minimum ¾ in. plywood finish floor or Floor-Topping Mixture as specified in the individual floor-ceiling design. Maximum diameter of floor opening is ⅝ in.
  - b) Wood Joists – Nom. 2 x 10 in. lumber joists, spaced 16 in. oc. with nom. 1 x 3 in. lumber bridging and with ends firestopped.
  - c) Furring Channels (not shown) – Resilient galv. steel furring installed perpendicular to wood joist between wallboard and wood joist and spaced maximum 24 in. oc.
  - d) Wallboard, Gypsum – Nom. 4 ft. wide x ⅝ in. thick as specified in the individual floor-ceiling design. Wallboard attached to wood joists or furring channels as specified in the individual floor-ceiling design. Maximum diameter of ceiling opening is ⅝ in.
  
2. Cables – One cable to be installed either eccentrically or concentrically in opening with annular space between the cable and periphery of opening of min. 0 in. (point contact) to maximum 14 in. Cable to be rigidly supported on both sides of floor-ceiling assembly. The following types of cables may be used:
  - a) Maximum 3/C (with ground) No. 12 AWG (or smaller) with polyvinyl chloride (PVC) insulation and jacket.
  - b) Maximum 3/C (with ground) No. 14 AWG (or smaller) with PVC jacketed aluminium or steel clad, Type RW90.
  - c) Type RG6U coaxial cable with fluorinated ethylene propylene insulation and jacket.
  - d) Maximum 2/C (with ground) No. 14 AWG (or smaller), type NM90, with nylon jacket.
  - e) Maximum 8/C No. 24 AWG (or smaller), type CMR MPR, with polyvinyl chloride (PVC) insulation and jacket.



The T Rating of the firestop system is dependent upon the type of cable used, as tabulate below:

| CABLE TYPE    | T-RATING (HR.) |
|---------------|----------------|
| a, b, c and e | 1              |
| d             | ¾              |

3. Fill, void or cavity material – NSi FireStop Intumescent Caulk. On top of assembly, a minimum ¼ in. thickness of fill material applied within the annulus on top surface of floor. On bottom assembly, a minimum ½ in. thickness of fill material applied within annulus on bottom surface of ceiling. Additional fill material to be installed such that a minimum ½ in. thick crown is formed around the through penetrant on both sides of floor-ceiling assembly.







# GROUNDING





# GROUNDING

## Ground Clamps

### Heavy Duty Direct Burial with Lay-In Lugs

#### GLC Series

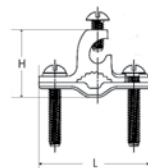
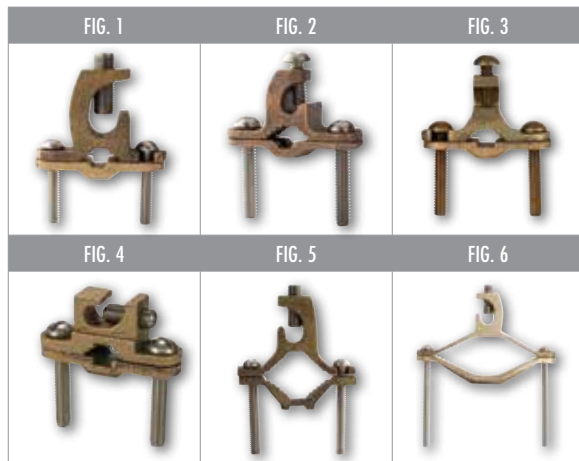


#### SPECIFICATIONS

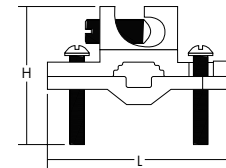
- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.
- Application: UL Listed for direct burial in earth and concrete, it can be used with rebar, copper water pipe, copper tubing and ground rods up to 1 inch in diameter.

#### FEATURES

- The ultimate ground clamp for large ground wires.
- This incredible ground clamp can handle just about any size ground wire and just about any application.
- Lay-in feature provides for the ultimate in flexibility.
- Convenient and pre-assembled screws are 304 stainless steel.



GLC-12 DB



GLC-140 DB

| CAT. NO.  | FIG. NO. | CERTIFICATION | PIPE SIZE (IPS) (IN.) | GROUND WIRE RANGE | REBAR SIZE (IN.) | GROUND ROD SIZE (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|-----------|----------|---------------|-----------------------|-------------------|------------------|-----------------------|------------------|-----------------|------------------|----------------|
| GLC-140DB | 1        | cULus         | 1/2-1                 | 8 STR-4/0 STR     | 3/8-1            | 1/2-1                 | 2.551            | 0.784           | 2.132            | 10             |
| GLC-12DB  | 2        | UL            | 1/2-1                 | #10-2 STR         | 3/8-1            | 1/2-1                 | 2.281            | 0.714           | 1.382            | 25             |
| GLC-12RDB | 3        | UL            | 1/2-1                 | #10-2 STR         | 3/8-1            | 1/2-1                 | 2.283            | 0.670           | 1.385            | 25             |
| GLC-12HDB | 4        | UL            | 1/2-1                 | #10-2 STR         | 3/8-1            | 1/2-1                 | 2.362            | 0.708           | 1.200            | 25             |
| GLC-240DB | 5        | cULus         | 1 1/4-2               | #8-4/0 STR        | -                | -                     | 3.319            | 0.693           | 3.190            | 6              |
| GLC-440DB | 6        | cULus         | 2 1/2-4               | #8-4/0 STR        | -                | -                     | 5.688            | 0.823           | 3.743            | 3              |



Scan QR code  
for mobile access to  
Grounding drawings.



# GROUNDING

## Ground Clamps

### Copper & Tin Plated Copper Lay-In Lugs

GLC, GLA Series



#### SPECIFICATIONS

##### GLC-4, GLC-4 DB/GLC-4 DBP

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.
- \*UL486 A Listed wire connector.
- **Temperature Rating:** 90 °C.
- **Voltage:** 600V.

##### Dual Rated Lay-In Lugs (GLA)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding (GLA-4).
- \*\*UL486 B Listed wire connector.
- **Temperature Rating:** \*Dual rated lay-in 90 °C.
- **Voltage:** 600V.

#### FEATURES

- Lay-in lugs are used for grounding or in continuous loop bonding and are available in several variations, depending on the application.

##### GLC-4

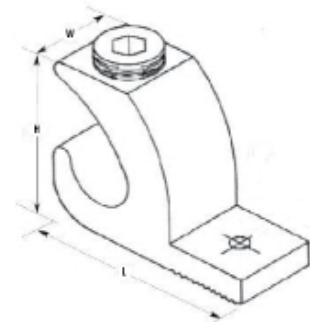
- Copper body with a steel screw and is used for general grounding applications with copper wire.

##### GLC-4 DB/GLC-4 DBP

- Copper bodies with stainless steel screws, are UL Listed for direct burial in earth or concrete with copper wire.

##### Dual Rated Lay-In Lugs (GLA)

- Lay-in connectors offer the ultimate in flexibility.
- Excellent for grounding and continuous loop applications.
- Made of 6061T-6 aluminum alloy.
- Electro-tin plated for low contact resistance.
- For use with copper or aluminum conductors.



GLA Series

| CAT. NO.  | FIG. NO. | CERTIFICATION | MATERIAL  | WIRE RANGE    | USE                            | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|-----------|----------|---------------|---|---------------|--------------------------------|------------------|-----------------|------------------|----------------|
| GLC-4*    | 1        | cULus         | Copper with steel screws                        | 4 -14 AWG     | General use for CU wire only   | 1.312            | 0.396           | 0.908            | 100            |
| GLC-4DB*  | 1        | cULus         | Copper with stainless steel screws              | 4 -14 AWG     | Direct burial for CU wire only | 1.312            | 0.396           | 0.908            | 100            |
| GLC-4DBP* | 2        | cULus         | Tin-plated copper with stainless steel screws   | 4 -14 AWG     | Direct burial for CU wire only | 1.312            | 0.396           | 0.908            | 100            |
| GLA-4**   | 3        | cULus         | Tin-plated aluminum with stainless steel screws | 4-14 AWG      | General use for AL/CU wire     | 1.070            | 0.380           | 0.750            | 100            |
| GLA-0**   | 3        | cULus         | Tin-plated aluminum with steel screws           | 1/0-8 AWG     | General use for AL/CU wire     | 1.500            | 0.600           | 1.100            | 40             |
| GLA-000** | 3        | cULus         | Tin-plated aluminum with steel screws           | 3/0-6 AWG     | General use for AL/CU wire     | 2.000            | 0.800           | 1.500            | 20             |
| GLA-250** | 4        | cULus         | Tin-plated aluminum with steel screws           | 250 MCM-6 AWG | General use for AL/CU wire     | 2.200            | 0.800           | 1.700            | 20             |

Scan QR code for mobile access to Grounding drawings.



# GROUNDING

## Ground Clamps

### Heavy Duty Direct Burial

G-S-DB, G-S-BS Series

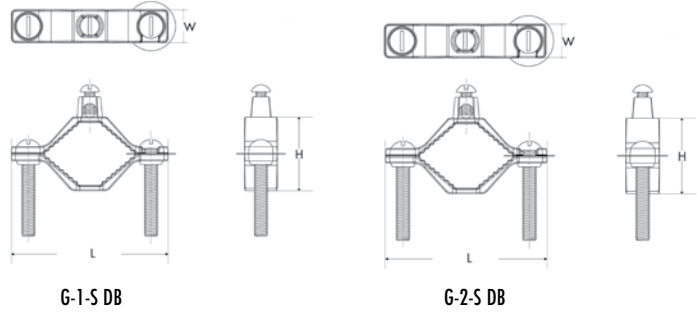


#### SPECIFICATIONS

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.

#### FEATURES

- Screws are 304 stainless steel.
- \*G-S-DB are available with silicon bronze screws by adding suffix of -SB.



G-1-S DB

G-2-S DB

| CAT. NO. | FIG. NO. | CERTIFICATION | PIPE SIZE (IPS) | REBAR SIZE (IN.) | GROUND WIRE BOLT SIZE (IN.) | GROUND CLAMP BOLT SIZE (IN.) | GROUND WIRE RANGE (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|----------|----------|---------------|-----------------|------------------|-----------------------------|------------------------------|-------------------------|------------------|-----------------|------------------|----------------|
| G-1-SDB* | 1        | UL            | 1/2-1           | —                | 1/4"-20 x 1/2"              | 1/4"-20 x 1.50"              | 10 SOL – 2 STR          | 2.280            | 0.650           | 1.400            | 20             |
| G-2-SDB* | 1        | UL            | 1 1/4-2         | —                | 1/4"-20 x 1/2"              | 5/16"-18 x 2"                | 10 SOL – 2 STR          | 3.600            | 0.750           | 1.690            | 10             |



Scan QR code  
for mobile access to  
Grounding drawings.

# GROUNDING

## Ground Clamps

### Heavy Duty Direct Burial & with Adapters G-DB Series



#### SPECIFICATIONS

##### Direct Burial With Wire Adapters (G-20DB)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.
- CSA.
- **Application:** UL Listed for direct burial in earth and concrete.

##### Extra Heavy Duty Direct Burial (G-140DB)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding).
- **Application:** UL Listed for direct burial in earth and concrete, be used with rebar, copper water pipe, copper tubing and ground rods up to 1 inch in diameter.

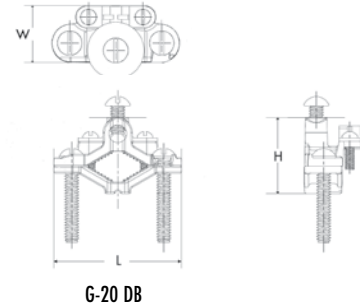
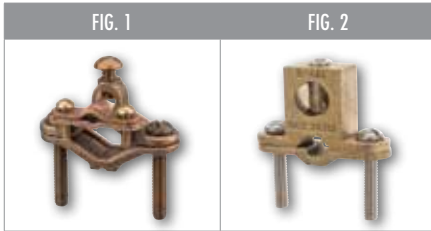
#### FEATURES

##### Direct Burial With Wire Adapters (G-20DB)

- For connecting wire to copper water pipe for grounding.
- Special pressure bar grips cable armor to lessen chances of grounding conductor being pulled out.
- Assembled with silicon bronze screws.

##### Extra Heavy Duty Direct Burial (G-140DB)

- This incredible ground clamp can handle just about any size ground wire and just about any application.
- Assembled with tough 304 stainless steel screws.
- Will accommodate ground wires from 8 AWG to 4/0 AWG.



| CAT. NO. | FIG. NO. | CERTIFICATION | PIPE SIZE (IPS) (IN.) | GROUND WIRE RANGE (IN.) | REBAR SIZE (IN.) | GROUND ROD SIZE (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|----------|----------|---------------|-----------------------|-------------------------|------------------|-----------------------|------------------|-----------------|------------------|----------------|
| G-20DB   | 1        | UL            | 1/2 - 1               | 4,6,8 STR               | -                | -                     | 2.250            | 1.000           | 1.350            | 20             |
| G-140DB  | 2        | cULus         | 1                     | 8 STR-4/0 STR           | 3/8-1            | 1/2-1                 | 2.362            | 0.669           | 1.761            | 10             |

GROUNDING

Scan QR code for mobile access to Grounding drawings.



# GROUNDING

## Ground Clamps

Heavy Duty Direct Burial with Adapters & Rebar  
G-S-DBR, G-BS, RC Series



### SPECIFICATIONS

#### Heavy Duty Bronze Ground Clamp (G-S DBR)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.

#### HD Ground Clamp With Adapter & Brass Screws (G-BS)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.

#### Ground Clamp With Adapter & Brass Screws (RC)

- cULus Listed 467 Grounding & Bonding/Direct Bury.
- UL467 Listed, Grounding & Bonding.
- \*UL Listed for #4 STR - #2 STR.
- **Application:** For use with copper wire only. Harsh direct bury environments & Pool and Spa. Any commercial, industrial, maintenance application where ground wire needs to be connected to rebar.

### FEATURES

#### Heavy Duty Bronze Ground Clamp (G-S DBR)

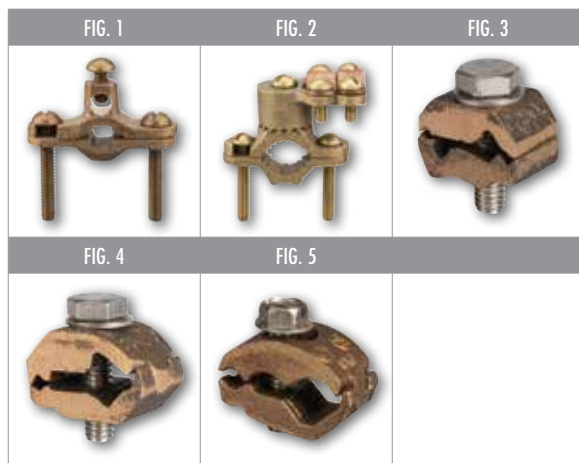
- Bronze ground clamp for bonding bare copper wire to copper water pipe.
- Assembled with tough 304 stainless steel screws.
- Available with silicon bronze screws by adding suffix -SB.

#### HD Ground Clamp With Adapter & Brass Screws (G-BS)

- Bronze clamps for copper water pipes with bronze adapters.
- Assembled with brass screws.

#### Ground Clamp With Adapter & Brass Screws (RC)

- Lay-in style clamp allows for continuous loop wiring.
- Cast silicon bronze connector & Stainless steel hardware.



| CAT. NO. | FIG. NO. | CERTIFICATION | GROUND WIRE RANGE (IN.) | PIPE SIZE (IPS) (IN.) | REBAR SIZE (IN.) | GROUND ROD SIZE | LENGTH (L) | WIDTH (W) | HEIGHT (H) | STD. CTN. QTY. |
|----------|----------|---------------|-------------------------|-----------------------|------------------|-----------------|------------|-----------|------------|----------------|
| G-1-SDBR | 1        | cULus         | 10 SOL - 2 STR          | 1/2-1                 | 3/8 - 1          | 3/8-1           | 2.280      | 0.650     | 1.400      | 20             |
| G-2BS    | 2        | UL            | 8-4/0 STR               | 1/2-1                 | -                | -               | 2.320      | 0.748     | 1.437      | 20             |
| G-3BS    | 2        | cULus         | 8-4/0 STR               | 1/2-1                 | -                | -               | 2.320      | 0.748     | 1.437      | 20             |
| RC38     | 3        | cULus         | 8-6 SOL                 | -                     | 3/8              | -               | 1.14       | 0.74      | 0.75       | 25             |
| RC50     | 4        | cULus         | 8 SOL - 4 STR           | -                     | 1/2              | -               | 1.35       | 0.83      | 0.91       | 25             |
| RC58*    | 5        | UL            | 6 SOL - 2/0 STR         | -                     | 5/8              | -               | 1.62       | 0.80      | 1.06       | 25             |



Scan QR code  
for mobile access to  
Grounding drawings.

# GROUNDING

## Ground Clamps

### Bronze Ground Clamps & Heavy Duty Water

G-S, G-SBS, G Series



### SPECIFICATIONS

#### Bronze Ground Clamps (G-S), (G-SBS)

- \*cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding).

#### Heavy Duty Water Pipe Clamps (G)

- UL467 Listed, Grounding & Bonding.

### FEATURES

#### Bronze Ground Clamps (G-S)

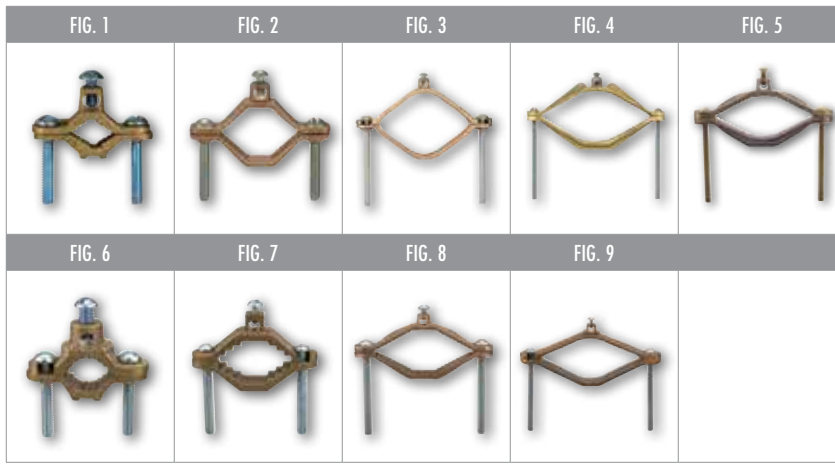
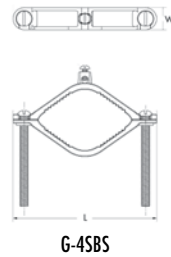
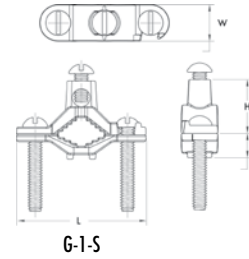
- Bronze ground clamp for bonding bare copper wire to water pipe or for use as a water meter shunt.
- Zinc plated steel screws.

#### Bronze Ground Clamps (G-SBS)

- Used to connect bare copper wire to copper water pipe, ground rods and rebar for bonding.
- Assembled with copper alloy screws and UL Listed for direct burial in earth and concrete.
- Can accommodate ground wires up to 2 AWG.

#### Heavy Duty Water Pipe Clamps (G)

- Bronze water pipe clamps with serrated head.
- Cast bronze body with plated steel screws.
- Designed for use alone or with heavy duty bronze adapters.



| CAT. NO. | FIG. NO. | CERTIFICATION | PIPE SIZE (IPS) (IN.) | GROUND WIRE RANGE (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|----------|----------|---------------|-----------------------|-------------------------|------------------|-----------------|------------------|----------------|
| G-1-S*   | 1        | UL            | 1/2-1                 | 10 SOL – 2 STR          | 2.280            | 0.650           | 1.400            | 20             |
| G-2-S*   | 2        | UL            | 1 1/4-2               | 10 SOL – 2 STR          | 3.600            | 0.750           | 1.690            | 10             |
| G-4-S    | 3        | UL            | 2 1/2-4               | 10 SOL – 2 STR          | 6.350            | 0.970           | 3.750            | 6              |
| G-6-S    | 4        | cULus         | 4 1/2-6               | 10 SOL – 2 STR          | 8.300            | 1.250           | 4.000            | 3              |
| G-4-SBS  | 5        | UL            | 2 1/2-4               | 10 SOL – 2 STR          | 6.350            | 0.970           | 3.750            | 6              |
| G-1      | 6        | UL            | 1/2-1                 | 10 SOL – 2 STR          | 2.200            | 0.748           | 1.437            | 25             |
| G-2      | 7        | UL            | 1 1/4-2               | 10 SOL – 2 STR          | 3.500            | 0.847           | 2.180            | 15             |
| G-12     | 8        | cULus         | 2 1/2-4               | 10 SOL – 2 STR          | 6.250            | 0.943           | 3.674            | 6              |
| G-13     | 9        | UL            | 4 1/2-6               | 10 SOL – 2 STR          | 7.916            | 0.933           | 4.165            | 4              |

GROUNDING

Scan QR code for mobile access to Grounding drawings.



# GROUNDING

## Ground Clamps

### Aluminum & Bronze Ground Clamps

GCA, G Series



#### SPECIFICATIONS

##### Aluminum Ground Clamps (GCA)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.

##### Bronze Ground Clamps With Wire Adapters (G)

- UL467 Listed, Grounding & Bonding.

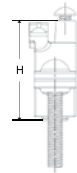
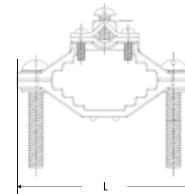
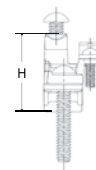
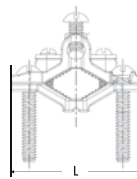
#### FEATURES

##### Aluminum Ground Clamps (GCA)

- Dual-rated ground clamp that grounds aluminum or copper to water pipe, galvanized pipe or steel conduit.
- Constructed from high-strength, extruded aluminum alloy and are plated to provide low-contact resistance.
- Zinc plated steel screws.

##### Bronze Ground Clamps With Wire Adapters (G)

- For connecting unarmored wire to water pipe for grounding.
- Special pressure bar grips cable to lessen chances of grounding conductor being pulled out.
- Assembled with zinc-plated steel screws.



G-20

G-66

| CAT. NO. | FIG. NO. | CERTIFICATION | PIPE SIZE (IPS) (IN.) | GROUND WIRE RANGE (IN.) | GROUND WIRE BOLT SIZE (IN.) | GROUND CLAMP BOLT SIZE (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|----------|----------|---------------|-----------------------|-------------------------|-----------------------------|------------------------------|------------------|-----------------|------------------|----------------|
| GCA-1    | 1        | UL            | 1/2-1                 | 1/0-14 AWG              | —                           | —                            | 2.260            | 0.685           | 1.670            | 25             |
| GCA-2    | 1        | UL            | 1 1/4-2               | 250 MCM-6 AWG           | —                           | —                            | 3.760            | 0.828           | 2.930            | 10             |
| GCA-4    | 2        | UL            | 2 1/2-4               | 250 MCM-6 AWG           | —                           | —                            | 6.125            | 0.996           | 4.630            | 3              |
| G-20     | 3        | UL            | 1/2-1                 | 4,6,8 STR               | 1/4 - 20 x 1/2              | 1/4 - 20 x 1 1/2             | 2.250            | 1.000           | 1.350            | 20             |
| G-66     | 4        | UL            | 1 1/4-2               | 4,6,8 STR               | 1/4 - 20 x 1/2              | 5/16 - 18 x 2                | 3.580            | 0.850           | 2.040            | 10             |



Scan QR code  
for mobile access to  
Grounding drawings.

# GROUNDING

## Ground Clamps

### Heavy Duty & with 360° Adapters for Rigid Conduit G Series



#### SPECIFICATIONS

##### Heavy Duty Bronze (G)

- UL467 Listed, Grounding & Bonding.

##### For Rigid Conduit (G)

- UL467 Listed, Grounding & Bonding.
- CSA.

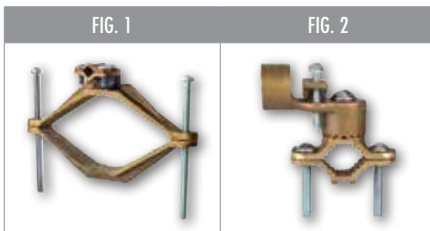
#### FEATURES

##### Heavy Duty Bronze (G)

- Heavy duty bronze adapters have serrations that match the serrations on the ground clamp, assuring positive lock.
- All adapters fit all clamps for the ultimate flexibility.
- Assembled with zinc plated steel hardware.
- Used to connect grounding conductor to rigid conduit on water pipe.

##### For Rigid Conduit (G)

- Used to connect grounding conductor to rigid conduit on water pipe.



| CAT. NO. | FIG. NO. | CERTIFICATION | PIPE SIZE (IPS) (IN.) | CONDUIT HUB SIZE (IN.) | GROUND WIRE RANGE (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|----------|----------|---------------|-----------------------|------------------------|-------------------------|------------------|-----------------|------------------|----------------|
| G-3      | 1        | UL            | 1 1/2-1               | —                      | 8-4/0 STR               | 2.320            | 0.748           | 1.437            | 20             |
| G-4      | 1        | UL            | 1 1/4-2               | —                      | 8-4/0 STR               | 3.528            | 0.850           | 2.706            | 10             |
| G-15     | 1        | UL            | 2 1/2-4               | —                      | 8-4/0 STR               | 6.125            | 0.964           | 3.962            | 6              |
| G-16     | 1        | cULus         | 4 1/2-6               | —                      | 8-4/0 STR               | 7.916            | 0.933           | 4.565            | 3              |
| G-5      | 2        | cULus         | 1/2 - 1               | 1/2                    | 10 SOL - 2/0 STR        | 2.200            | 0.748           | 2.437            | 15             |
| G-6      | 2        | cULus         | 1 1/4 - 2             | 1/2                    | 10 SOL - 2/0 STR        | 3.667            | 0.791           | 3.195            | 10             |
| G-7      | 2        | UL            | 1/2 - 1               | 3/4                    | 10 SOL - 3/0 STR        | 2.200            | 0.748           | 1.437            | 15             |
| G-8      | 2        | UL            | 1 1/4 - 2             | 3/4                    | 10 SOL - 3/0 STR        | 3.616            | 0.791           | 3.298            | 8              |
| G-9      | 2        | cULus         | 1/2 - 1               | 1                      | 10 SOL - 3/0 STR        | 2.315            | 0.747           | 3.159            | 12             |
| G-10     | 2        | UL            | 1 1/4 - 2             | 1                      | 10 SOL - 3/0 STR        | 3.616            | 0.816           | 3.561            | 8              |
| G-18     | 2        | UL            | 2 1/2 - 4             | 1/2                    | 10 SOL - 2/0 STR        | 6.125            | 0.961           | 4.812            | 6              |
| G-19     | 2        | cULus         | 4 1/2 - 6             | 1/2                    | 10 SOL - 2/0 STR        | 8.125            | 1.263           | 4.740            | 3              |
| G-21     | 2        | cULus         | 2 1/2 - 4             | 3/4                    | 10 SOL - 3/0 STR        | 6.125            | 0.961           | 4.943            | 6              |
| G-22     | 2        | UL            | 4 1/2 - 6             | 3/4                    | 10 SOL - 3/0 STR        | 8.227            | 1.244           | 5.050            | 3              |
| G-24     | 2        | cULus         | 2 1/2 - 4             | 1                      | 10 SOL - 3/0 STR        | 6.125            | 0.940           | 5.191            | 6              |
| G-25     | 2        | UL            | 4 1/2 - 6             | 1                      | 10 SOL - 3/0 STR        | 8.225            | 1.260           | 5.245            | 3              |

GROUNDING

Scan QR code  
for mobile access to  
Grounding drawings.





# GROUNDING

## Ground Clamps

### Heavy Duty & with 360° Adapters for Rigid Conduit

EG Series

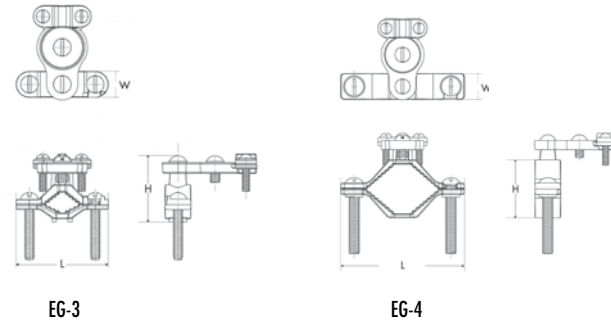
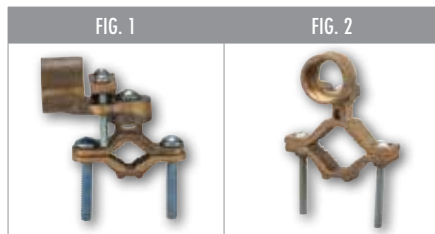


#### SPECIFICATIONS

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.
- CSA.

#### FEATURES

- Bronze water pipe clamps with bronze adapters.
- Excellent quality yet economical.
- All adapters are interchangeable.
- Assembled with zinc-plated steel screws.
- Hub swings 360° for easy alignment.
- Used to connect rigid conduit and ground conductor to water pipe.



| CAT. NO. | FIG. NO. | CERTIFICATION | PIPE SIZE (IPS)<br>(IN.) | GROUND WIRE RANGE (IN.) | CONDUIT HUB SIZE<br>(IN.) | LENGTH<br>(L) (IN.) | WIDTH<br>(W) (IN.) | HEIGHT<br>(H) (IN.) | STD. CTN. QTY. |
|----------|----------|---------------|--------------------------|-------------------------|---------------------------|---------------------|--------------------|---------------------|----------------|
| EG-3     | 1        | cULus         | 1/2 - 1                  | 10 SOL - 2/0 STR        | 1/2                       | 2.200               | 0.585              | 2.300               | 20             |
| EG-4     | 1        | UL            | 1 1/4 - 2                | 10 SOL - 2/0 STR        | 1/2                       | 3.588               | 0.737              | 3.117               | 10             |
| EG-5     | 1        | cULus         | 1/2 - 1                  | 10 SOL - 2/0 STR        | 1/2                       | 2.208               | 0.597              | 2.210               | 15             |
| EG-6     | 1        | UL            | 1 1/4 - 2                | 10 SOL - 2/0 STR        | 1/2                       | 3.631               | 0.725              | 2.696               | 10             |
| EG-7     | 1        | UL            | 1/2 - 1                  | 10 SOL - 2/0 STR        | 3/4                       | 2.298               | 0.663              | 2.470               | 15             |
| EG-8     | 1        | UL            | 1 1/4 - 2                | 10 SOL - 2/0 STR        | 3/4                       | 3.576               | 0.789              | 3.841               | 8              |
| EG-9     | 1        | UL            | 1/2 - 1                  | 10 SOL - 3/0 STR        | 1                         | 2.280               | 0.650              | 1.900               | 12             |
| EG-10    | 2        | UL            | 1 1/4 - 2                | 10 SOL - 3/0 STR        | 1                         | 3.587               | 0.792              | 4.029               | 8              |
| EG-15    | 2        | cULus         | 2 1/2 - 4                | 10 SOL - 2/0 STR        | 1/2                       | 6.125               | 0.972              | 4.834               | 6              |
| EG-24    | 2        | UL            | 2 1/2 - 4                | 10 SOL - 3/0 STR        | 1                         | 6.125               | 0.962              | 5.158               | 6              |



Scan QR code  
for mobile access to  
Grounding drawings.

# GROUNDING

## Ground Clamps

### Rigid Conduit with Flexible Wire Strap

#### G Series

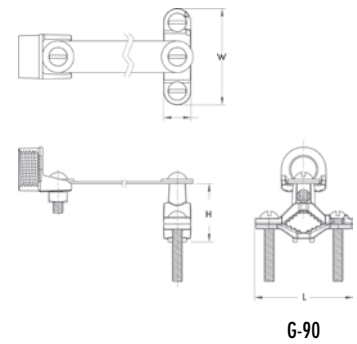
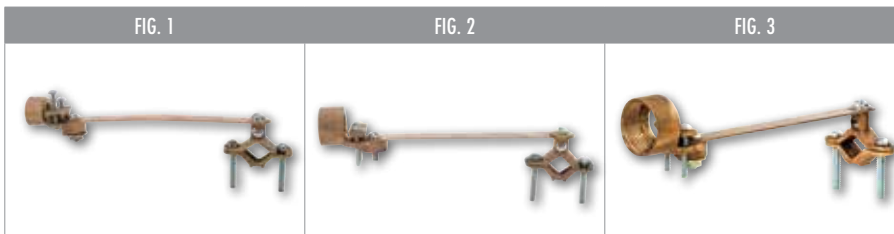


#### SPECIFICATIONS

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.
- CSA.

#### FEATURES

- For connecting the grounding conductor in rigid conduit to water pipe.
- Copper strap allows flexibility during grounding and helps protect the conduit system from the results of vibrations in the water system.
- Assembled with zinc-plated steel screws.



| CAT. NO. | FIG. NO. | CERTIFICATION | PIPE SIZE (IPS) (IN.) | GROUNDWIRE RANGE (IN.) | CONDUIT HUB SIZE (IN.) | STD. CTN. QTY. |
|----------|----------|---------------|-----------------------|------------------------|------------------------|----------------|
| G-90     | 1        | cULus         | 1/2 - 1               | 10 SOL - 2/0 STR       | 1/2                    | 15             |
| G-79     | 2        | UL            | 1/2 - 1               | 10 SOL - 2/0 STR       | 3/4                    | 12             |
| G-83     | 3        | UL            | 1/2 - 1               | 10 SOL - 3/0 STR       | 1                      | 12             |

GROUNDING

Scan QR code for mobile access to Grounding drawings.



# GROUNDING

## Ground Clamps

### Economy & 360° Swing Type Hubs

GH, GHM Series

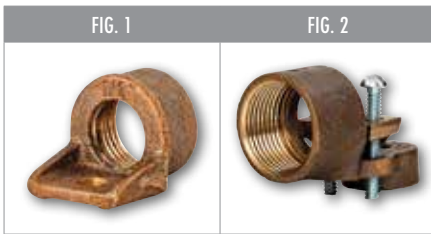
#### FEATURES

##### Economy 360° Hub (GH)

- Threaded hub cast of high-strength, highly conductive bronze.
- Used with ground clamp to ground conductor to water pipe.

##### 360° Swing Type (GHM)

- Threaded hub cast of high-strength, highly conductive bronze.
- Used with ground clamp with serrated hub to ground conductor to water pipe.
- Allows entry from any direction.
- Zinc plated steel screws.



| CAT. NO. | FIG. NO. | CONDUIT HUB SIZE (IN.) | GROUND WIRE RANGE (IN.) | STD. CTN. QTY. |
|----------|----------|------------------------|-------------------------|----------------|
| GH-50    | 1        | 1/2                    | 10 SOL – 4 STR          | 50             |
| GH-75    | 1        | 3/4                    | 10 SOL – 2/0 STR        | 25             |
| GH-100   | 1        | 1                      | 10 SOL – 3/0 STR        | 15             |
| GHM-50   | 2        | 1/2                    | 10 SOL – 2/0 STR        | 50             |
| GHM-75   | 2        | 3/4                    | 10 SOL – 2/0 STR        | 75             |
| GHM-100  | 2        | 1                      | 10 SOL – 3/0 STR        | 15             |



Scan QR code  
for mobile access to  
Grounding drawings.

# GROUNDING

## Ground Clamps

Zinc Die Cast & Standard Duty Silicon Bronze  
GZ, GRC Series



### SPECIFICATIONS

#### Zinc Die-Cast Ground Clamps (GZ)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.
- CSA.

#### Standard Duty Silicon Bronze (GRC)

- cULus Listed 467 Grounding and Bonding.
- UL467 Listed, Grounding & Bonding.

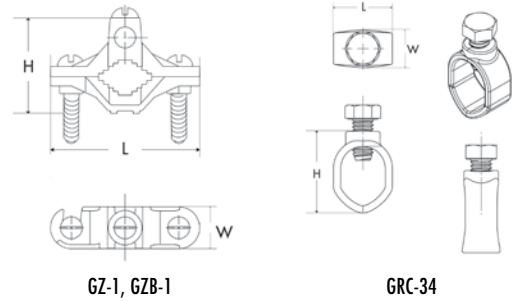
### FEATURES

#### Zinc Die-Cast Ground Clamps (GZ)

- Die cast from high-strength zinc alloy.
- Used to connect bare copper wire for grounding.
- Zinc plated steel screws.
- GZB-1 is brass plated and not UL Listed.

#### Standard Duty Silicon Bronze (GRC)

- Ground rod clamps are made from silicon bronze with 304 stainless steel screws for maximum strength.
- All standard duty and heavy duty ground clamps are UL Listed for direct burial in earth or concrete.
- \*\*Available with silicon bronze screws by adding suffix of -SB.



| CAT. NO. | FIG. NO. | CERTIFICATION | GROUND WIRE RANGE (IN.) | CONDUIT SIZE (IN.) | GROUND ROD SIZE (IN.) | REBAR SIZE (IN.) | GROUND WIRE MAXIMUM (IN.) | STD. CTN. QTY. |
|----------|----------|---------------|-------------------------|--------------------|-----------------------|------------------|---------------------------|----------------|
| GZ-1     | 1        | UL            | 2 - 10                  | 1/2 - 1            | -                     | -                | -                         | 20             |
| GZB-1    | 1        | -             | 2 - 10                  | 1/2 - 1            | -                     | -                | -                         | 20             |
| GRC 38** | 2        | -             | -                       | -                  | 3/8                   | -                | 10 SOL - 4 STR            | 50             |
| GRC 50** | 2        | cULus         | -                       | -                  | 1/2                   | 3/8              | 10 SOL - 2 STR            | 25             |
| GRC 58** | 2        | cULus         | -                       | -                  | 5/8                   | 1/2              | 10 SOL - 2 STR            | 25             |
| GRC 34** | 2        | cULus         | -                       | -                  | 3/4                   | 5/8              | 10 SOL - 1 STR            | 20             |

GROUNDING

Scan QR code for mobile access to Grounding drawings.



# GROUNDING

## Ground Clamps

### Heavy Duty Silicon Bronze & Range Taking Rod Clamp

GRC Series



#### SPECIFICATIONS

- UL Listed for Direct Burial in Earth & Concrete.

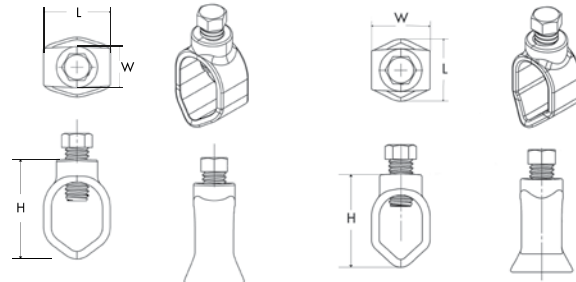
#### FEATURES

##### Heavy Duty Silicon Bronze (GRC-H)

- Ground rod clamps are made from silicon bronze for maximum strength.
- A silicon bronze screw furnishes maximum clamping force.
- All standard duty and heavy duty ground clamps are UL Listed for direct burial in earth or concrete.
- \*Available with silicon bronze screws by adding suffix -SB.

##### Range Taking Rod Clamp (GRC)

- This heavy duty ground rod clamp replaces all existing ground rod clamps, eliminating the need to stock several different sizes and types.
- UL listed for direct burial in earth and concrete, heavy duty construction enables it to handle large ground wires up to 1/0 AWG – much larger than a standard ground rod clamp.
- Suitable for 3/8", 1/2", 5/8", 3/4" ground rods.
- \*Available with silicon bronze screws by adding suffix -SB.



GRC-34H

GRC-58H

| CAT. NO.  | FIG. NO. | CERTIFICATION | GROUND WIRE RANGE (IN.) | GROUND ROD SIZE (IN.) | REBAR SIZE (IN.) | GROUND WIRE MAXIMUM (IN.) | STD. CTN. QTY. |
|-----------|----------|---------------|-------------------------|-----------------------|------------------|---------------------------|----------------|
| GRC-34H*  | 1        | UL            | 8 SOL – 1/0 STR         | 3/4                   | –                | 1/0 STR                   | 20             |
| GRC-50H*  | 1        | UL            | 10 SOL – 2 STR          | 1/2                   | –                | 2 STR                     | 25             |
| GRC-58H*  | 1        | UL            | 10 SOL – 1/0 STR        | 5/8                   | –                | 1/0 STR                   | 20             |
| GRC-100H* | 1        | UL            | 8 SOL – 4/0 STR         | 1                     | –                | 4/0 STR                   | 10             |
| GRC-3834* | 2        | cULus         | 10 SOL – 1/0 STR        | 3/8, 1/2, 5/8         | 3/8, 1/2, 5/8    | 1/0 STR                   | 25             |



Scan QR code  
for mobile access to  
Grounding drawings.

# GROUNDING

## Grounding Connectors

### Intersystem Bonding Connectors

GBIAL, GBIBZ Series



#### SPECIFICATIONS

##### Zinc Die-Cast Ground Clamps (GZ)

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.

#### APPLICATIONS

- Connector for intersystem bonding of power and communication (phone, cable, and satellite) grounding systems.
- Meets or exceeds requirements set forth in NEC2008 250.94 Bonding of other systems facilitates a fast and simple connection to ground conductor below the meter.

#### FEATURES

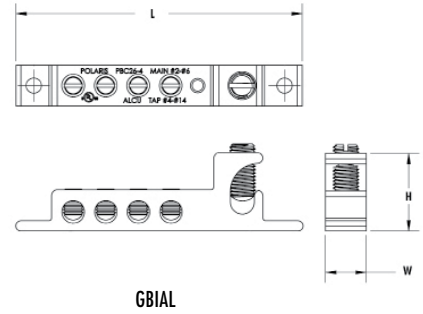
- Convenient lay-in feature for main grounding conductor, accommodates #2 to #6 AWG.
- Lay-In feature eliminates the need to cut or splice to main electrode.
- Lay-In feature eliminates disassembling ground to rod connection.
- Optional UV Resistant paintable cover for more desirable appearance.
- For indoor and outdoor use.
- Compact size measures 1.4"H x 1.19"W x 3.93"L.

#### GBIAL

- Supplied with stainless steel screws to prevent corrosion.
- Dual rated for copper or aluminum conductor.

#### GBIBZ

- Assembled with Zinc plated steel screws.
- Rated for copper conductor only.



| CAT. NO.          | FIG. NO. | MATERIAL | DESCRIPTION        | WIRE RANGE (IN.)  | NO. OF CIRCUITS (IN.) | STD. CTN. QTY. |
|-------------------|----------|----------|--------------------|-------------------|-----------------------|----------------|
| GBIAL 126-4414-WC | 1        | Aluminum | With cover         | (1) 2-6, (4) 4-14 | 4                     | 1              |
| GBIAL 126-4414    | 2        | Aluminum | Cover not included | (1) 2-6, (4) 4-14 | 4                     | 1              |
| GBIBZ 126-4414-WC | 3        | Bronze   | With cover         | (1) 2-6, (4) 4-14 | 4                     | 1              |
| GBIBZ 126-4414    | 4        | Bronze   | Cover not included | (1) 2-6, (4) 4-14 | 4                     | 1              |

GROUNDING

Scan QR code  
for mobile access to  
Grounding drawings.



# GROUNDING

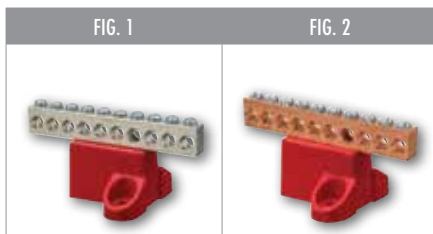
## Grounding Connectors

### Isolated Ground Bars

GBA, GBC Series

#### FEATURES

- Made from either high-strength aluminum alloy 6061-T6 or high-conductivity copper as indicated below.
- The base is made from high-strength glass-filled polyester.
- Aluminum connectors are dual-rated for use with aluminum or copper cables.



| CAT. NO. | FIG. NO. | MATERIAL | WIRE RANGE     | NO. OF CIRCUITS | LENGTH (L) (IN.) | HEIGHT (H) (IN.) | WIDTH (W) (IN.) | STD. CTN. QTY. |
|----------|----------|----------|----------------|-----------------|------------------|------------------|-----------------|----------------|
| GBA2-7   | 1        | Aluminum | AL/CU 2 - 14   | 7               | 2.88             | 2.31             | 1.88            | 3              |
| GBC2-7   | 2        | Copper   | CU 2 - 14      | 7               | 2.88             | 2.31             | 1.75            | 3              |
| GBA2-10  | 1        | Aluminum | AL/CU 2 - 14   | 10              | 4.07             | 2.31             | 1.88            | 3              |
| GBC2-10  | 2        | Copper   | CU 2 - 14      | 10              | 4.07             | 2.31             | 1.75            | 3              |
| GBA2-14  | 1        | Aluminum | AL/CU 2 - 14   | 14              | 5.56             | 2.31             | 1.88            | 2              |
| GBC2-14  | 2        | Copper   | CU 2 - 14      | 14              | 5.56             | 2.31             | 1.75            | 2              |
| GBA2-20  | 1        | Aluminum | AL/CU 2 - 14   | 20              | 8.04             | 2.31             | 1.88            | 2              |
| GBC2-20  | 2        | Copper   | CU 2 - 14      | 20              | 8.04             | 2.31             | 1.75            | 2              |
| GBA20-7  | 1        | Aluminum | AL/CU 2/0 - 14 | 7               | 4.61             | 2.31             | 2.13            | 3              |
| GBA20-10 | 1        | Aluminum | AL/CU 2/0 - 14 | 10              | 6.41             | 2.31             | 2.13            | 3              |
| GBA20-14 | 1        | Aluminum | CL/CU 2/0 - 14 | 14              | 8.81             | 2.31             | 2.13            | 2              |



Scan QR code  
for mobile access to  
Grounding drawings.



# GROUNDING

## Grounding Connectors

Heavy Duty for Parallel, 90° Copper Cable  
UC Series

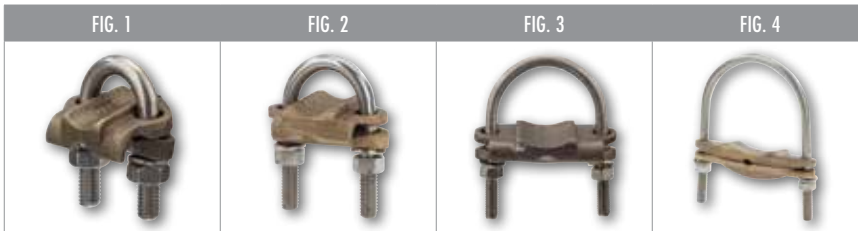


### SPECIFICATIONS

- UL467 Listed, Grounding & Bonding.

### FEATURES

- Made of high-copper-content alloy for grounding to
- 1/2" - 1" ground rods and ground pipes from
- 1/4" - 3 1/2" in parallel or 90° position.
- Suitable for direct burial in earth and concrete.
- Nuts and lockwashers are silicon bronze.
- For use with single wire.



| CAT. NO. | FIG. NO. | CERTIFICATION | PIPE SIZE (IPS)<br>(IN.) | ROD SIZE<br>(IN.) | CABLE RANGE<br>(IN.) | STD. CTN. QTY. |
|----------|----------|---------------|--------------------------|-------------------|----------------------|----------------|
| UC-101   | 1        | UL            | 1/4                      | 1/2               | 2/0 - 4              | 12             |
| UC-102   | 1        | Not UL Listed | 1/4                      | 1/2               | 250-2/0              | 12             |
| UC-103   | 1        | UL            | 3/8                      | 5/8 - 3/4         | 4 - 8                | 12             |
| UC-104   | 1        | UL            | 3/8                      | 5/8 - 3/4         | 2/0 - 4              | 12             |
| UC-105   | 1        | UL            | 3/8                      | 5/8 - 3/4         | 250 - 2/0            | 12             |
| UC-108   | 1        | UL            | 1/2 - 3/4                | 7/8 - 1           | 2/0 - 4              | 12             |
| UC-109   | 1        | UL            | 1/2 - 3/4                | 7/8 - 1           | 250 - 2/0            | 12             |
| UC-110   | 1        | Not UL Listed | 1/2 - 3/4                | 7/8 - 1           | 300-500              | 12             |
| UC-114   | 2        | UL            | 1                        | -                 | 2/0 - 4              | 6              |
| UC-115   | 2        | UL            | 1                        | -                 | 250 - 2/0            | 12             |
| UC-120   | 2        | UL            | 1 1/4                    | -                 | 2/0 - 4              | 12             |
| UC-121   | 2        | UL            | 1 1/4                    | -                 | 250 - 2/0            | 12             |
| UC-126   | 2        | UL            | 1 1/2                    | -                 | 2/0 - 4              | 12             |
| UC-127   | 2        | UL            | 1 1/2                    | -                 | 250 - 2/0            | 12             |
| UC-132   | 3        | UL            | 2                        | -                 | 2/0 - 4              | 12             |
| UC-133   | 3        | UL            | 2                        | -                 | 250 - 2/0            | 6              |
| UC-137   | 3        | UL            | 2 1/2                    | -                 | 2/0 - 4              | 6              |
| UC-138   | 3        | UL            | 2 1/2                    | -                 | 250 - 2/0            | 6              |
| UC-142   | 4        | UL            | 3                        | -                 | 2/0 - 4              | 6              |
| UC-143   | 4        | UL            | 3                        | -                 | 250 - 2/0            | 6              |
| UC-147   | 4        | UL            | 3 1/2                    | -                 | 2/0 - 4              | 3              |
| UC-148   | 4        | Not UL Listed | 3 1/2                    | -                 | 250 - 2/0            | 3              |

GROUNDING

Scan QR code  
for mobile access to  
Grounding drawings.



# GROUNDING

## Grounding Connectors

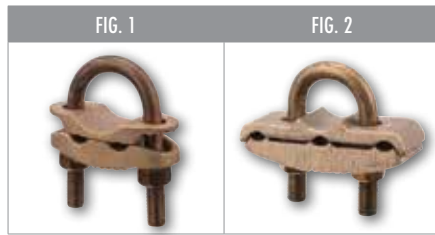
### Heavy Duty for Parallel

### UC Series



#### FEATURES

- Made of high-copper-content alloy for grounding to 1/2" - 1" ground rods and ground pipes from 1/4" - 3 1/2" in parallel or 90° position.
- Suitable for direct burial in earth and concrete.
- Nuts and lockwashers are silicon bronze.
- 200 Series for use with two wires and 300 Series for use with three wires.



| CAT. NO. | FIG. NO. | CERTIFICATION | PIPE SIZE (IPS)<br>(IN.) | CABLE RANGE<br>(IN.) | STD. CTN. QTY. |
|----------|----------|---------------|--------------------------|----------------------|----------------|
| UC-214   | 1        | UL            | 1                        | 2/0 - 4              | 6              |
| UC-215   | 1        | UL            | 1                        | 250 - 2/0            | 6              |
| UC-221   | 1        | UL            | 1 1/4                    | 250 - 2/0            | 6              |
| UC-226   | 1        | UL            | 1 1/2                    | 2/0 - 4              | 6              |
| UC-227   | 1        | UL            | 1 1/2                    | 250 - 2/0            | 6              |
| UC-232   | 1        | UL            | 2                        | 2/0 - 4              | 6              |
| UC-233   | 1        | UL            | 2                        | 250 - 2/0            | 3              |
| UC-237   | 1        | UL            | 2 1/2                    | 2/0 - 4              | 3              |
| UC-238   | 1        | UL            | 2 1/2                    | 250 - 2/0            | 3              |
| UC-242   | 1        | UL            | 3                        | 2/0 - 4              | 3              |
| UC-243   | 1        | UL            | 3                        | 250 - 2/0            | 3              |
| UC-315   | 2        | UL            | 1                        | 250 - 2/0            | 6              |
| UC-320   | 2        | UL            | 1 1/4                    | 2/0 - 4              | 6              |
| UC-326   | 2        | UL            | 1 1/2                    | 2/0 - 4              | 6              |
| UC-327   | 2        | UL            | 1 1/2                    | 250 - 2/0            | 6              |
| UC-332   | 2        | UL            | 2                        | 2/0 - 4              | 6              |
| UC-338   | 2        | UL            | 2 1/2                    | 250 - 2/0            | 3              |
| UC-342   | 2        | UL            | 3                        | 2/0 - 4              | 3              |
| UC-343   | 2        | UL            | 3                        | 250 - 2/0            | 3              |



Scan QR code  
for mobile access to  
Grounding drawings.

# GROUNDING

## Grounding Connectors

C Taps  
CT, CTH Series



### SPECIFICATIONS

#### CT Series, CTH Series

- cULus Listed 467 Grounding & Bonding.
- UL467 Listed, Grounding & Bonding.

### FEATURES

#### CT Series

- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.

#### CTH Series

- These taps ensure positive, all-around compression with low resistance and high pull-out values.
- Made of high conductivity copper, they satisfy the requirements of NEC250-81 and 250-91 for connecting to the grounding electrode system.

#### CTH Series

- Range-taking compression connectors made from high conductivity copper alloy.
- Ideal for making tap or parallel copper connections from 8 SOL to 4/0 STR conductors.
- Provides consistent reliability with heavy wall construction that prevents relaxation of the joint after installation.
- Installation time is reduced because of its "C" shape.



#### C-TAPS ORDER INFO

- Find them in the Connectors Section pages 66-68.

Scan QR code  
for mobile access to  
Grounding drawings.



# GROUNDING

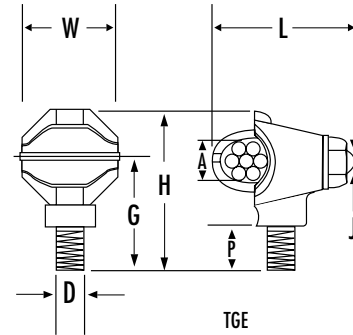
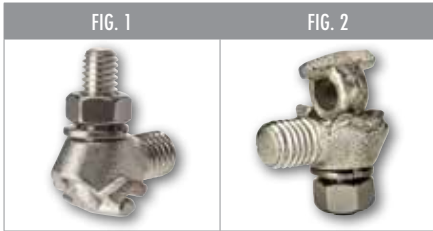
## Grounding Connectors

### Transformer Ground Clamps

#### TGE Series

#### FEATURES

- Cast from high conductivity, high strength copper alloy with cast high strength bronze eyebolts.
- Stainless steel nuts and lockwashers are standard on all clamps.
- The TGE may be tightened by using a wrench on the body.



| CAT. NO.  | FIG. NO. | COPPER CONDUCTOR RANGE (A) (IN.) | FINISH     | WIRE DIA. (IN.) | STUD SIZE (D) (IN.) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | HEIGHT (H) (IN.) | STD. CTN. QTY. |
|-----------|----------|----------------------------------|------------|-----------------|---------------------|------------------|-----------------|------------------|----------------|
| TGE-1     | 1        | 10 SOL - 1 STR                   | Plain      | .102/.332       | 1/2 - 13            | 1.450            | 0.932           | 1.701            | 50             |
| TGE-2/0   | 1        | 8 SOL -2/0 STR                   | Plain      | .128/.419       | 1/2 - 13            | 1.782            | 1.225           | 2.208            | 15             |
| TGE-250   | 1        | 6 SOL - 250MCM                   | Plain      | .162/.575       | 1/2 - 13            | 2.760            | 1.863           | 2.569            | 10             |
| TGE-2/0TN | 2        | 8 SOL -2/0 STR                   | Tin Plated | .128/.419       | 1/2 - 13            | 1.782            | 1.225           | 2.208            | 15             |
| TGE-250TN | 2        | 6 SOL - 250MCM                   | Tin Plated | .162/.575       | 1/2 - 13            | 2.760            | 1.863           | 2.569            | 10             |



Scan QR code  
for mobile access to  
Grounding drawings.

# GROUNDING

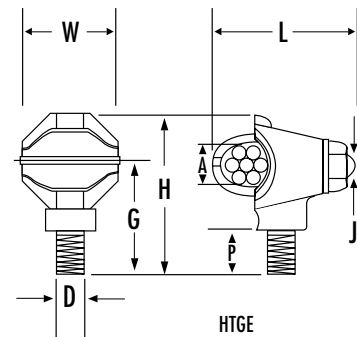
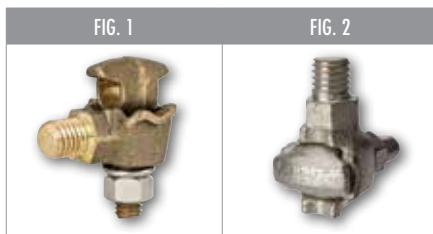
## Grounding Connectors

### Two-Way Baskets

#### HTGE Series

#### FEATURES

- Cast from high conductivity, high strength copper alloy with cast high strength bronze eyebolts.
- Stainless steel nuts and lockwashers are standard on all clamps.
- The HTGE provides a hex or square shoulder for wrench tightening.
- The flat surface also acts as a seal to the tank.



| CAT. NO.   | FIG. NO. | COPPER CONDUCTOR RANGE (A) | FINISH     | WIRE DIA. | STUD SIZE (D) (IN.) | APPROX DIMENSIONS (IN.) |     |           |     |             |           |     |       |     |         |     |     |
|------------|----------|----------------------------|------------|-----------|---------------------|-------------------------|-----|-----------|-----|-------------|-----------|-----|-------|-----|---------|-----|-----|
|            |          |                            |            |           |                     | G                       |     | H         |     | J (EYEBOLT) |           | L   |       | P   |         | W   |     |
|            |          |                            |            |           |                     | IN.                     | MM. | IN.       | MM. | IN.         | MM.       | IN. | MM.   | IN. | MM.     | IN. | MM. |
| HTGE-1     | 1        | 10 SOL - 1 STR             | Plain      | .102/.332 | 1/2 - 13            | 1 - 3/16                | 30  | 1 - 3/4   | 44  | 3/8 - 16    | 1 - 31/32 | 50  | 7/16  | 11  | 1 - 1/8 | 28  |     |
| HTGE-2/0   | 1        | 8 SOL - 2/0 STR            | Plain      | .128/.419 | 1/2 - 13            | 1 - 5/16                | 33  | 1 - 15/16 | 49  | 3/8 - 16    | 2         | 51  | 7/16  | 11  | 1 - 1/4 | 32  |     |
| HTGE-250   | 1        | 6 SOL - 250MCM             | Plain      | .162/.575 | 1/2 - 13            | 1 - 3/16                | 30  | 2 - 1/8   | 54  | 1/2 - 13    | 2 - 5/8   | 67  | 15/32 | 12  | 1 - 7/8 | 48  |     |
| HTGE-2/0TN | 2        | 8 SOL - 2/0 STR            | Tin Plated | .128/.419 | 1/2 - 13            | 1 - 5/16                | 33  | 1 - 15/16 | 49  | 3/8 - 16    | 2         | 51  | 7/16  | 11  | 1 - 1/4 | 32  |     |
| HTGE-250TN | 2        | 6 SOL - 250MCM             | Tin Plated | .162/.575 | 1/2 - 13            | 1 - 3/16                | 30  | 2 - 1/8   | 54  | 1/2 - 13    | 2 - 5/8   | 67  | 15/32 | 12  | 1 - 7/8 | 48  |     |

GROUNDING

Scan QR code for mobile access to Grounding drawings.



# GROUNDING

## Grounding Connectors

### Flexible Braid Jumper Straps & Ground Straps

FS, SA Series

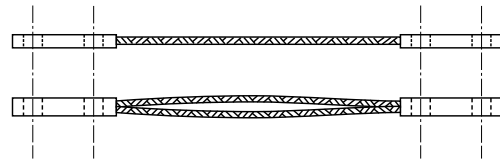
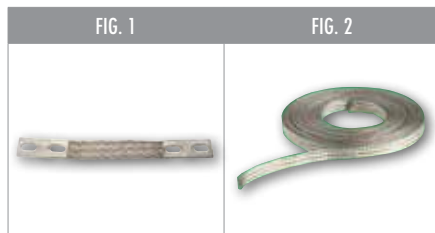
#### FEATURES

##### Jumper Straps (FS)

- Recommended for motion due to expansion, contraction, vibration and operational movement of current carrying members.
- Manufactured from flat, extra-flexible tinned braid, they are available in a wide variety of sizes and amperages.
- The ferrules are made from pure electrolytic copper and are tin-plated.
- Standard mounting holes are 9/16" NEMA spaded holes.

##### Ground Straps (SA)

- Woven of high conductivity, annealed, tinned copper wire, this braided ground strap provides maximum flexibility and ease of handling when installing ground or shield continuity.
- This braid is used for shield and lead-sheath grounding and is easily soldered to lead, copper and tinned metals.
- It is also used for continuing the fault-carrying capacity of the cable shield as a jumper braid.



FS Series

| CAT NO.      | FIG. NO. | AMPERE RATING |          | APPROX. CIRCULAR MILS | THICKNESS (IN.) | EQUIVALENT AWG SIZE | LENGTH (L) (IN.) | WIDTH (W) (IN.) (2 HOLE PAD ONLY) | STD. CTN. QTY. |
|--------------|----------|---------------|----------|-----------------------|-----------------|---------------------|------------------|-----------------------------------|----------------|
|              |          | INDOORS       | OUTDOORS |                       |                 |                     |                  |                                   |                |
| FS1-19-8N    | 1        | 190           | 225      | 77,000                | 1/4             | –                   | 12               | 11/16                             | 1              |
| FS1-19-8N-18 | 1        | 190           | 225      | 77,000                | 1/4             | –                   | 18               | 11/16                             | 1              |
| FS1-19-8N-24 | 1        | 190           | 225      | 77,000                | 1/4             | –                   | 24               | 11/16                             | 1              |
| FS1-33-8N    | 1        | 330           | 400      | 154,500               | 1/4             | –                   | 12               | 1 1/2                             | 1              |
| FS1-33-8N-18 | 1        | 330           | 400      | 154,500               | 1/4             | –                   | 18               | 1 1/2                             | 1              |
| FS1-33-8N-24 | 1        | 330           | 400      | 154,000               | 1/4             | –                   | 24               | 1 1/2                             | 1              |
| FS2-60-8N    | 1        | 600           | 720      | 463,000               | 7/16            | –                   | 12               | 13/16                             | 1              |
| SA 382B      | 2        | –             | –        | –                     | –               | 9 AWG               | 25               | 3/8                               | 1              |
| SA 382C      | 2        | –             | –        | –                     | –               | 9 AWG               | 100              | 3/8                               | 1              |
| SA 582B      | 2        | –             | –        | –                     | –               | 6 AWG               | 25               | 1/2                               | 1              |
| SA 582C      | 2        | –             | –        | –                     | –               | 6 AWG               | 100              | 1/2                               | 1              |



Scan QR code  
for mobile access to  
Grounding drawings.

# GROUNDING

## Grounding Connectors

Grounding Pigtails (for solid & stranded wire) & Clips  
PG, GGC, GSH, GSC Series

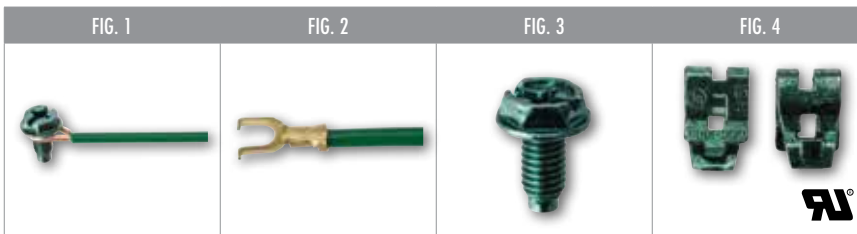
### FEATURES

#### Solid Pigtails With Screws

- Pigtails are insulated conductors supplied with an attached ground screw on one end and the insulation stripped back one inch on the other end.
- Meets NEC requirements.

#### Stranded With Ring & Spade

- Supplied with a spade terminal on one end and a ring terminal with a captive green-dyed screw on the other end.
- 65 strand #12 AWG and 41 strand #14 AWG for maximum flexibility.



| CAT. NO. | FIG. NO. | DESCRIPTION   | STD. CTN. QTY. |
|----------|----------|---|----------------|
| PG14C    | 1        | 6.5 Inch 14 AWG Solid With Combo Screw - Green        | 50             |
| PG12C    | 1        | 6.5 Inch 12 AWG Solid With Combo Screw - Green        | 50             |
| PG12C-8  | 1        | 8 Inch 12 AWG Solid With Combo Screw - Green          | 50             |
| PG14SC   | 2        | 8 Inch 14 AWG (41W) Stranded With Combo Slotted Screw | 50             |
| PG12SC   | 2        | 8 Inch 12 AWG (65W) Stranded With Combo Slotted Screw | 50             |
| GSH      | 3        | Hex Head Green Grounding Screw                        | 100            |
| GSC      | 3        | Combo Slotted Hex Screw                               | 100            |
| GGC-1000 | 4        | Green Grounding Clips                                 | 100            |

GROUNDING

Scan QR code  
for mobile access to  
Grounding drawings.









# CABLE TIES



# CABLE TIES

## Standard (Natural) Cable Ties

Standard - Natural Series



### SPECIFICATIONS

- cULus Listed for Positioning Devices. UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C)
- **Ideal Storage:** 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".

### FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.



| CAT. NO. | MAX. WIRE/CABLE SIZE (L) | MAX BUNDLE DIAMETER | TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|--------------------------|---------------------|------------------|--------------|-------------|----------------|----------------|
| 418      | 4"                       | 0.800               | 18 Lbs.          | 4.000        | 0.095       | 100            | 5,000          |
| 418X     | 4"                       | 0.800               | 18 Lbs.          | 4.000        | 0.095       | 1000           | 5,000          |
| 450      | 4"                       | 0.800               | 50 Lbs.          | 4.750        | 0.095       | 100            | 5,000          |
| 518      | 5"                       | 1.430               | 18 Lbs.          | 5.500        | 0.095       | 100            | 5,000          |
| 518X     | 5"                       | 1.375               | 18 Lbs.          | 5.500        | 0.100       | 1000           | 5,000          |
| 540      | 5"                       | 1.300               | 40 Lbs.          | 5.500        | 0.140       | 100            | 3,000          |
| 540X     | 5"                       | 1.300               | 40 Lbs.          | 5.500        | 0.140       | 1000           | 3,000          |
| 650      | 6"                       | 1.320               | 50 Lbs.          | 6.250        | 0.181       | 100            | 3,000          |
| 650X     | 6"                       | 1.320               | 50 Lbs.          | 6.250        | 0.181       | 1000           | 3,000          |
| 750      | 7"                       | 1.810               | 50 Lbs.          | 7.500        | 0.189       | 100            | 3,000          |
| 750X     | 7"                       | 1.810               | 50 Lbs.          | 7.500        | 0.189       | 1000           | 3,000          |
| 818      | 8"                       | 2.060               | 18 Lbs.          | 8.000        | 0.095       | 100            | 3,000          |
| 818X     | 8"                       | 2.060               | 18 Lbs.          | 8.000        | 0.095       | 1000           | 3,000          |
| 840      | 8"                       | 2.060               | 40 Lbs.          | 8.000        | 0.140       | 100            | 3,000          |
| 840X     | 8"                       | 2.060               | 40 Lbs.          | 8.000        | 0.140       | 1000           | 3,000          |
| 850      | 8"                       | 1.940               | 50 Lbs.          | 8.000        | 0.189       | 100            | 3,000          |
| 850X     | 8"                       | 1.940               | 50 Lbs.          | 8.000        | 0.189       | 1000           | 3,000          |
| 875      | 8"                       | 1.940               | 75 Lbs.          | 8.000        | 0.189       | 100            | 3,000          |
| 8120     | 8"                       | 2.000               | 120 Lbs.         | 8.000        | 0.300       | 100            | 2,000          |
| 8120X    | 8"                       | 2.000               | 120 Lbs.         | 8.000        | 0.300       | 1000           | 2,000          |

# CABLE TIES

## Standard (Natural) Cable Ties

Standard - Natural Series



### SPECIFICATIONS

- cULus Listed for Positioning Devices. UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C)
- **Ideal Storage:** 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".

### FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.



| CAT. NO. | MAX. WIRE/CABLE SIZE (L) | MAX BUNDLE DIAMETER | TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|--------------------------|---------------------|------------------|--------------|-------------|----------------|----------------|
| 1140     | 11"                      | 3.300               | 40 Lbs.          | 11.500       | 0.140       | 100            | 2,000          |
| 1140X    | 11"                      | 3.300               | 40 Lbs.          | 11.500       | 0.140       | 1000           | 2,000          |
| 1150     | 11"                      | 2.940               | 50 Lbs.          | 11.100       | 0.189       | 100            | 2,000          |
| 1150X    | 11"                      | 2.940               | 50 Lbs.          | 11.100       | 0.189       | 1000           | 2,000          |
| 1175     | 11"                      | 2.940               | 75 Lbs.          | 11.100       | 0.189       | 100            | 2,000          |
| 11120    | 11"                      | 3.000               | 120 Lbs.         | 11.500       | 0.300       | 100            | 2,000          |
| 1450     | 14"                      | 4.070               | 50 Lbs.          | 14.100       | 0.189       | 100            | 3,000          |
| 1450X    | 14"                      | 4.070               | 50 Lbs.          | 14.100       | 0.189       | 1000           | 3,000          |
| 1475     | 14"                      | 4.070               | 75 Lbs.          | 14.100       | 0.189       | 100            | 3,000          |
| 14120    | 14"                      | 4.070               | 120 Lbs.         | 14.250       | 0.300       | 100            | 2,000          |
| 15250    | 15"                      | 4.375               | 250 Lbs.         | 15.000       | 0.500       | 50             | 500            |
| 1850     | 18"                      | 5.070               | 50 Lbs.          | 18.000       | 0.189       | 100            | 2,000          |
| 18175    | 18"                      | 5.250               | 175 Lbs.         | 17.750       | 0.315       | 50             | 500            |
| 18250    | 18"                      | 5.500               | 250 Lbs.         | 18.870       | 0.500       | 50             | 500            |
| 22250    | 22"                      | 6.875               | 250 Lbs.         | 22.87        | 0.500       | 50             | 500            |
| 24175    | 24"                      | 7.140               | 175 Lbs.         | 24.000       | 0.345       | 50             | 500            |
| 28250    | 28"                      | 8.875               | 250 Lbs.         | 28.75        | 0.500       | 50             | 500            |
| 30175    | 30"                      | 9.250               | 175 Lbs.         | 30.000       | 0.354       | 50             | 500            |
| 36175    | 36"                      | 11.000              | 175 Lbs.         | 36.000       | 0.350       | 50             | 500            |
| 48175    | 48"                      | 15.000              | 175 Lbs.         | 48.000       | 0.354       | 50             | 500            |

CABLE TIES

# CABLE TIES

## UV & Weather Resistant (Black)

Standard - Black Series



### SPECIFICATIONS

- cULus Listed for Positioning Devices. UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C)
- **Ideal Storage:** 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".

### FEATURES

- Made from weather resistant Nylon 66 for applications exposed to outside elements.
- UV resistant and Black color only.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.



| CAT. NO. | MAX. WIRE/CABLE SIZE (L) | MAX BUNDLE DIAMETER | TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|--------------------------|---------------------|------------------|--------------|-------------|----------------|----------------|
| 4180     | 4"                       | 0.800               | 18 Lbs           | 4.000        | 0.095       | 100            | 5,000          |
| 4180X    | 4"                       | 0.800               | 18 Lbs           | 4.000        | 0.095       | 1000           | 5,000          |
| 4500     | 4"                       | 1.430               | 50 Lbs           | 4.750        | 0.095       | 100            | 5,000          |
| 4500X    | 4"                       | 1.375               | 50 Lbs           | 4.750        | 0.100       | 1000           | 5,000          |
| 5180     | 5"                       | 1.300               | 18 Lbs           | 5.500        | 0.140       | 100            | 3,000          |
| 5180X    | 5"                       | 1.300               | 18 Lbs           | 5.500        | 0.140       | 1000           | 3,000          |
| 5400     | 5"                       | 1.320               | 40 Lbs           | 6.250        | 0.181       | 100            | 3,000          |
| 5400X    | 5"                       | 1.320               | 40 Lbs           | 6.250        | 0.181       | 1000           | 3,000          |
| 6500     | 6"                       | 1.810               | 40 Lbs           | 7.500        | 0.189       | 100            | 3,000          |
| 7500     | 7"                       | 2.060               | 50 Lbs           | 8.000        | 0.095       | 100            | 3,000          |
| 7500X    | 7"                       | 2.060               | 50 Lbs           | 8.000        | 0.095       | 1000           | 3,000          |
| 8180     | 8"                       | 2.060               | 18 Lbs           | 8.000        | 0.140       | 100            | 3,000          |
| 8180X    | 8"                       | 2.060               | 18 Lbs           | 8.000        | 0.140       | 1000           | 3,000          |
| 8400     | 8"                       | 1.940               | 40 Lbs           | 8.000        | 0.189       | 100            | 3,000          |
| 8400X    | 8"                       | 1.940               | 40 Lbs           | 8.000        | 0.189       | 1000           | 3,000          |
| 8500     | 8"                       | 2.000               | 50 Lbs           | 8.000        | 0.300       | 100            | 2,000          |
| 8500X    | 8"                       | 2.000               | 50 Lbs           | 8.000        | 0.300       | 1000           | 2,000          |
| 8750     | 8"                       | 2.000               | 75 Lbs           | 8.000        | 0.300       | 100            | 2,000          |
| 81200    | 8"                       | 3.300               | 120 Lbs          | 8.000        | 0.140       | 100            | 2,000          |



# CABLE TIES

## UV & Weather Resistant (Black)

Standard - Black Series



### SPECIFICATIONS

- cULus Listed for Positioning Devices. UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C)
- **Ideal Storage:** 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".

### FEATURES

- Made from weather resistant Nylon 66 for applications exposed to outside elements.
- UV resistant and Black color only.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.



| CAT. NO. | MAX. WIRE/CABLE SIZE (L) | MAX BUNDLE DIAMETER | TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|--------------------------|---------------------|------------------|--------------|-------------|----------------|----------------|
| 11400    | 11"                      | 2.940               | 40 Lbs           | 11.100       | 0.189       | 100            | 2,000          |
| 11500    | 11"                      | 3.125               | 50 Lbs           | 11.500       | 0.187       | 100            | 2,000          |
| 11500X   | 11"                      | 3.125               | 50 Lbs           | 11.500       | 0.187       | 1000           | 2,000          |
| 11750    | 11"                      | 3.000               | 75 Lbs           | 11.500       | 0.189       | 100            | 2,000          |
| 111200   | 11"                      | 3.000               | 120 Lbs          | 11.500       | 0.300       | 100            | 2,000          |
| 14500    | 14"                      | 4.070               | 50 Lbs           | 14.100       | 0.189       | 100            | 3,000          |
| 14500X   | 14"                      | 4.070               | 50 Lbs           | 14.100       | 0.189       | 1000           | 3,000          |
| 14750    | 14"                      | 4.070               | 75 Lbs           | 14.100       | 0.189       | 100            | 3,000          |
| 141200   | 14"                      | 4.070               | 120 Lbs          | 14.250       | 0.300       | 100            | 2,000          |
| 152500   | 15"                      | 4.375               | 250 Lbs          | 15.000       | 0.500       | 50             | 500            |
| 18500    | 18"                      | 5.070               | 50 Lbs           | 18.000       | 0.189       | 100            | 2,000          |
| 181750   | 18"                      | 5.250               | 175 Lbs          | 17.750       | 0.315       | 50             | 500            |
| 182500   | 18"                      | 5.500               | 250 Lbs          | 18.870       | 0.500       | 50             | 500            |
| 222500   | 22"                      | 6.875               | 250 Lbs.         | 22.87        | 0.500       | 50             | 500            |
| 241750   | 24"                      | 7.140               | 175 Lbs          | 24.000       | 0.345       | 50             | 500            |
| 282500   | 28"                      | 8.875               | 250 Lbs.         | 28.75        | 0.500       | 50             | 500            |
| 301750   | 30"                      | 9.250               | 175 Lbs          | 30.000       | 0.354       | 50             | 500            |
| 342500   | 34"                      | 10.5                | 250 Lbs.         | 34.68        | 0.500       | 50             | 500            |
| 361750   | 36"                      | 11.000              | 175 Lbs          | 36.000       | 0.350       | 50             | 500            |
| 402500   | 40"                      | 12.5                | 250 Lbs.         | 40.5         | 0.500       | 50             | 500            |
| 481750   | 48"                      | 15.000              | 175 Lbs          | 48.000       | 0.354       | 50             | 500            |
| 601750   | 60"                      | 18.250              | 175 Lbs          | 59.000       | 0.354       | 50             | 500            |

CABLE TIES

# CABLE TIES

## Air Handling & Push Mount Cable Ties

-P, -PM Series

### FEATURES

#### Air Handling (-P)

- Air handling ties are approved for indoor use in air handling spaces other than plenums and ducts per NFPA-1993.
- Made of high strength nylon, these ties are self-extinguishing and resist abrasions and chemicals such as oil, greases, solvents, dilute acids and alkalies.
- Burgundy in color for easy identification.

#### Push Mount (-PM)

- Secure a cable tie to a back panel quickly and easily, eliminating the possibility of adhesive mount failure.
- Drill the mounting hole and insert.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and excellent dielectric properties.

### SPECIFICATIONS

- UL Listed and CSA (-P).
- Meets UL62275 test standards. MIL spec. 3367-1, -7, -2. NEC Sec. 300-22 (C) & (D), Rules 12-010 (3), (4), and (5) and 12-020 of the Canadian Electrical code, Part 1.
- **Temperature Rating (-P):** Maximum operating temperature 85 °C (185 °F).
- **Temperature Rating (-PM):** -40 °C to 85 °C (-40 °F to 185 °F) and will withstand temperatures up to 149 °C (300.2 °F). 94V-2 flammability rating.



| CAT. NO. | CERTIFICATION | MAX. WIRE/<br>CABLE SIZE | MAX. BUNDLE DIA. | MIN. TENSILE<br>STRENGTH | MTG. HOLE SIZE REQ.<br>(IN.) | LENGTH<br>(IN.) | WIDTH<br>(IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|---------------|--------------------------|------------------|--------------------------|------------------------------|-----------------|----------------|----------------|----------------|
| 750-P    | UL/CSA        | 7"                       | 1.750            | 50 Lbs.                  | —                            | 7.500           | 0.180          | 100            | 5,000          |
| 1150-P   | UL/CSA        | 11"                      | 3.000            | 50 Lbs.                  | —                            | 11.100          | 0.180          | 100            | 5,000          |
| 1450-P   | UL/CSA        | 14"                      | 4.000            | 50 Lbs.                  | —                            | 14.200          | 0.180          | 100            | 5,000          |
| 640-PM   | UL Recognized | 6"                       | 1.59             | 40 Lbs.                  | 3/16                         | 6.125           | 0.139          | 100            | 1,000          |



# CABLE TIES

## Tefzel & Marker Cable Ties

### TFZ, -ID Series

#### FEATURES

##### Tefzel Cable Ties (TFZ)

- Suitable for extreme environments, no toxic smoke.
- Rated for air handling spaces and chemical, weather and radiation resistant.
- Ideal for high temperature applications, up to 150 °C (302 °F) continuous operating temperature.
- Aqua blue in color.

##### MARKER CABLE TIES (-ID)

- Manufactured from natural colored Nylon 66, with an identification area provided (see STYLE).

#### SPECIFICATIONS

- UL 94V-0 approved.
- True Plenum Rating (TFZ).
- **Temperature Rating (TFZ):** 18.3 °C to 150 °C (65 °F to 302 °F).  
Melting point 271.1 °C (520 °F).
- **TEFZEL (True Plenum Rating):** Air handling ties approved for indoor use in air handling spaces and plenums and ducts per NFPA-1993.
- UL62275 Listed.



| CAT. NO. | CERTIFICATION | FIG. NO. | STYLE      | MAX. WIRE/CABLE SIZE | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|---------------|----------|------------|----------------------|------------------|-----------------------|--------------|-------------|----------------|----------------|
| TFZ850   | UL Recognized | 1        | –          | 8"                   | 1.750            | 50 Lbs.               | 7.500        | 0.190       | 100            | 1,000          |
| TFZ1150  | UL Recognized | 1        | –          | 11"                  | 3.00             | 50 Lbs.               | 11.500       | 0.190       | 100            | 1,000          |
| 418-ID   | UL            | 2        | Vertical   | 4"                   | 0.75             | 18 Lbs.               | 4.000        | 0.100       | 100            | 1,000          |
| 418F-ID  | UL            | 3        | Flag       | 4"                   | 0.75             | 18 Lbs.               | 4.000        | 0.100       | 100            | 1,000          |
| 418H-ID  | UL            | 4        | Horizontal | 4"                   | 0.75             | 18 Lbs.               | 4.000        | 0.100       | 100            | 1,000          |
| 750-ID   | UL            | 2        | Vertical   | 7"                   | 2                | 50 Lbs.               | 7.800        | 0.183       | 100            | 1,000          |
| 818H-ID  | UL            | 4        | Horizontal | 8"                   | 2                | 18 Lbs.               | 8.000        | 0.100       | 100            | 1,000          |



# CABLE TIES

## Releasable & Stainless Steel Ties

-R, SS Series

### SPECIFICATIONS

- UL Recognized.
- **Temperature Rating (-R):** -40 °C to 85 °C (-40 °F to 185 °F).
- **Temperature Rating (SS):** -80 °C to 538 °C (-62.2 °F to 281.1 °F).
- **Stainless Steel Ties (True Plenum Rating):** Air handling ties approved for indoor use in air handling spaces and plenums and ducts per NFPA-1993.

### FEATURES

#### Releasable (-R)

- Releasable ties are manufactured from either natural Nylon 66 or Weather Resistant Nylon 66, these ties can be easily released and re-used.

#### Stainless Steel Cable Ties (SS)

- Made of Grade 304 stainless steel and are ideally suited for hazardous environments.
- Roller-ball design that is self locking, fast and easy to install.
- Smooth edges will not damage wires and it can be installed by hand or with a tool.
- Available with a non-toxic, halogen-free polyester coating in a wide choice of colors.
- Available in Grade 316, for applications that require extremely high corrosion resistance. To order 316SS material, add suffix "-316" to part number.



| CAT. NO. | FIG. NO. | MAX. WIRE/CABLE SIZE | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|----------|----------------------|------------------|-----------------------|--------------|-------------|----------------|----------------|
| 850-R    | 1        | 8"                   | 2.000            | 50 Lbs.               | 8.00         | 0.210       | 100            | 1,000          |
| SS8100   | 2        | 8"                   | 1.970            | 100 Lbs.              | 8.000        | 0.181       | 100            | 500            |
| SS14100  | 2        | 14"                  | 3.940            | 100 Lbs.              | 14.000       | 0.181       | 100            | 500            |
| SS14250  | 2        | 20"                  | 3.940            | 250 Lbs.              | 14.000       | 0.311       | 100            | 500            |
| SS20100  | 2        | 20"                  | 5.900            | 100 Lbs.              | 20.5         | 0.181       | 100            | 500            |
| SS20250  | 2        | 20"                  | 5.900            | 250 Lbs.              | 20.5         | 0.311       | 100            | 500            |
| SS26250  | 2        | 26"                  | 7.870            | 250 Lbs.              | 26.5         | 0.311       | 100            | 500            |

# CABLE TIES

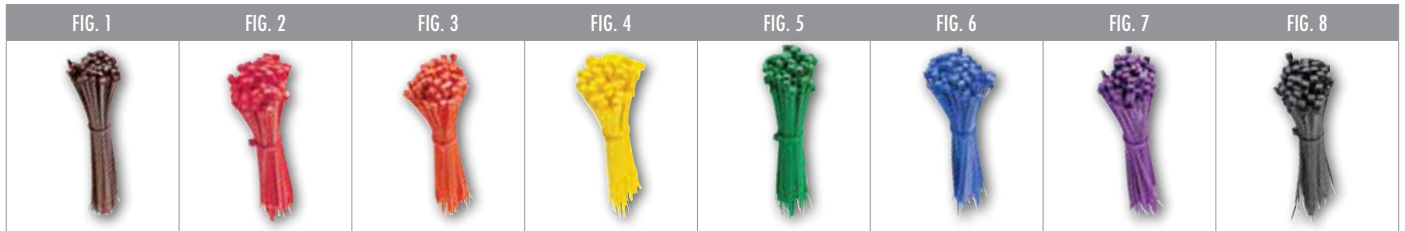
## Standard Color Ties

### SPECIFICATIONS

- cULus Listed for Positioning Devices UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C).
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".

### FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.



| CAT. NO. | FIG. NO. | COLOR  | MAX. WIRE/CABLE SIZE (L) | MAX BUNDLE DIAMETER | TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|----------|--------|--------------------------|---------------------|------------------|--------------|-------------|----------------|----------------|
| 530-1    | 1        | Brown  | 5"                       | 1.300               | 30 Lbs.          | 5.600        | 0.140       | 100            | 5,000          |
| 530-2    | 2        | Red    | 5"                       | 1.300               | 30 Lbs.          | 5.600        | 0.140       | 100            | 5,000          |
| 530-3    | 3        | Orange | 5"                       | 1.300               | 30 Lbs.          | 5.600        | 0.140       | 100            | 5,000          |
| 530-4    | 4        | Yellow | 5"                       | 1.250               | 30 Lbs.          | 5.600        | 0.130       | 100            | 5,000          |
| 530-5    | 5        | Green  | 5"                       | 1.300               | 30 Lbs.          | 5.600        | 0.140       | 100            | 5,000          |
| 530-6    | 6        | Blue   | 5"                       | 1.300               | 30 Lbs.          | 5.600        | 0.140       | 100            | 5,000          |
| 530-8    | 8        | Gray   | 5"                       | 1.300               | 30 Lbs.          | 5.600        | 0.140       | 100            | 5,000          |
| 750-2    | 2        | Red    | 7"                       | 1.810               | 50 Lbs.          | 7.500        | 0.189       | 100            | 3,000          |
| 750-3    | 3        | Orange | 7"                       | 1.810               | 50 Lbs.          | 7.500        | 0.189       | 100            | 3,000          |
| 750-4    | 4        | Yellow | 7"                       | 1.810               | 50 Lbs.          | 7.500        | 0.189       | 100            | 3,000          |
| 750-5    | 5        | Green  | 7"                       | 1.810               | 50 Lbs.          | 7.500        | 0.189       | 100            | 3,000          |
| 750-6    | 6        | Blue   | 7"                       | 1.810               | 50 Lbs.          | 7.500        | 0.189       | 100            | 3,000          |
| 750-7    | 7        | Purple | 7"                       | 1.810               | 50 Lbs.          | 7.500        | 0.189       | 100            | 3,000          |
| 750-8    | 8        | Gray   | 7"                       | 1.810               | 50 Lbs.          | 7.500        | 0.189       | 100            | 3,000          |
| 840-1    | 1        | Brown  | 8"                       | 2.060               | 40 Lbs.          | 8.500        | 0.140       | 100            | 3,000          |
| 840-2    | 2        | Red    | 8"                       | 2.060               | 40 Lbs.          | 8.500        | 0.140       | 100            | 3,000          |
| 840-3    | 3        | Orange | 8"                       | 2.060               | 40 Lbs.          | 8.500        | 0.140       | 100            | 3,000          |
| 840-4    | 4        | Yellow | 8"                       | 2.060               | 40 Lbs.          | 8.500        | 0.140       | 100            | 3,000          |
| 840-5    | 5        | Green  | 8"                       | 2.060               | 40 Lbs.          | 8.500        | 0.140       | 100            | 3,000          |
| 840-6    | 6        | Blue   | 8"                       | 2.060               | 40 Lbs.          | 8.500        | 0.140       | 100            | 3,000          |
| 840-7    | 7        | Purple | 8"                       | 2.060               | 40 Lbs.          | 8.500        | 0.140       | 100            | 3,000          |
| 840-8    | 8        | Gray   | 8"                       | 2.060               | 40 Lbs.          | 8.500        | 0.140       | 100            | 3,000          |
| 1150-2   | 2        | Red    | 11"                      | 3.000               | 50 Lbs.          | 11.100       | 0.187       | 100            | 2,000          |
| 1450-2   | 2        | Red    | 14"                      | 4.000               | 50 Lbs.          | 14.100       | 0.187       | 100            | 2,000          |
| 1450-3   | 3        | Orange | 14"                      | 4.000               | 50 Lbs.          | 14.100       | 0.187       | 100            | 2,000          |
| 1450-4   | 4        | Yellow | 14"                      | 4.070               | 50 Lbs.          | 14.000       | 0.189       | 100            | 2,000          |
| 1450-5   | 5        | Green  | 14"                      | 4.000               | 50 Lbs.          | 14.100       | 0.187       | 100            | 2,000          |

# CABLE TIES

## Standard Fluorescent Ties

### SPECIFICATIONS

- cULus Listed for Positioning Devices UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C).
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".

### FEATURES

- Designed for quick and easy use.
- Strong and flexible, they can be wrapped around a bundle quickly and the tail is easily inserted into a self-locking head.
- The smaller standard size ties have bent tails to facilitate insertion by user.
- Made of high-strength Nylon 66 that resists abrasion and chemicals such as common oils, greases, solvents, dilute acids and alkalines.
- Fungus-resistant, self-extinguishing and have excellent dielectric properties.



| CAT. NO. | FIG. NO. | COLOR (FLOURESCENT) | MAX. WIRE/CABLE SIZE | MAX BUNDLE DIAMETER | TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|----------|---------------------|----------------------|---------------------|------------------|--------------|-------------|----------------|----------------|
| 750-16   | 1        | Orange              | 7"                   | 1.750               | 50 Lbs.          | 7.500        | 0.187       | 100            | 3,000          |
| 750-18   | 2        | Green               | 7"                   | 1.810               | 50 Lbs.          | 7.500        | 0.189       | 100            | 3,000          |
| 750-20   | 3        | Blue                | 7"                   | 1.810               | 50 lbs.          | 7.500        | 0.189       | 100            | 3,000          |
| 840-11   | 4        | Pink                | 8"                   | 2.000               | 40 Lbs.          | 8.500        | 0.130       | 100            | 3,000          |
| 840-16   | 1        | Orange              | 8"                   | 2.000               | 40 Lbs.          | 8.500        | 0.130       | 100            | 3,000          |
| 840-17   | 5        | Yellow              | 8"                   | 2.060               | 40 Lbs.          | 8.000        | 0.140       | 100            | 3,000          |
| 840-18   | 2        | Green               | 8"                   | 2.000               | 40 Lbs.          | 8.500        | 0.130       | 100            | 3,000          |
| 840-20   | 3        | Blue                | 8"                   | 2.000               | 40 Lbs.          | 8.500        | 0.130       | 100            | 3,000          |
| 1150-11  | 4        | Pink                | 11"                  | 3.000               | 50 Lbs.          | 11.100       | 0.187       | 100            | 2,000          |
| 1150-16  | 1        | Orange              | 11"                  | 3.000               | 50 Lbs.          | 11.100       | 0.187       | 100            | 2,000          |
| 1150-17  | 5        | Yellow              | 11"                  | 3.000               | 50 Lbs.          | 11.100       | 0.187       | 100            | 2,000          |
| 1150-18  | 2        | Green               | 11"                  | 3.000               | 50 Lbs.          | 11.100       | 0.187       | 100            | 2,000          |
| 1150-20  | 3        | Blue                | 11"                  | 3.000               | 50 Lbs.          | 11.100       | 0.187       | 100            | 2,000          |

# CABLE TIES

## Cable Tie Canister Packs

CTP Series

### SPECIFICATIONS

- cULus Listed for Positioning Devices UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C).
- **Ideal Storage:** 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".

### FEATURES

- Four sizes of canister packs include popular assortments of standard and colored cable ties.
- Provided in an air-tight canister to prevent drying, extending life.



| CAT. NO. | FIG. NO. | COLOR    | CONTENTS | QTY. | BUNDLE DIAL | MAX BUNDLE DIAMETER | TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|----------|----------|----------|------|-------------|---------------------|------------------|--------------|-------------|----------------|----------------|
| CTP-300  | 1        | Natural  | 418      | 100  | 7/8         | 0.875               | 18 Lbs.          | 4.000        | 0.100       | 1              | 12             |
|          | 1        | Red      | 418-2    | 25   | 7/8         | 0.875               | 18 Lbs.          | 4.000        | 0.100       | 1              | 12             |
|          | 1        | Yellow   | 418-4    | 25   | 7/8         | 0.875               | 18 Lbs.          | 4.000        | 0.100       | 1              | 12             |
|          | 1        | Green    | 418-5    | 25   | 7/8         | 0.875               | 18 Lbs.          | 4.000        | 0.100       | 1              | 12             |
|          | 1        | Blue     | 418-6    | 25   | 7/8         | 0.875               | 18 Lbs.          | 4.000        | 0.100       | 1              | 12             |
|          | 1        | Natural  | 840      | 50   | 2 1/8       | 2.125               | 40 Lbs.          | 8.000        | 0.140       | 1              | 12             |
|          | 1        | Red      | 840-2    | 25   | 2 1/8       | 2.125               | 40 Lbs.          | 8.000        | 0.140       | 1              | 12             |
|          | 1        | Blue     | 840-6    | 25   | 2 1/8       | 2.125               | 40 Lbs.          | 8.000        | 0.140       | 1              | 12             |
| CTP-650  | 2        | Natural  | 418      | 200  | 7/8         | 0.875               | 18 Lbs.          | 4.000        | 0.100       | 1              | 12             |
|          | 2        | Red      | 418-2    | 25   | 7/8         | 0.875               | 18 Lbs.          | 4.000        | 0.100       | 1              | 12             |
|          | 2        | Yellow   | 418-4    | 25   | 7/8         | 0.875               | 18 Lbs.          | 4.000        | 0.100       | 1              | 12             |
|          | 2        | Green    | 418-5    | 25   | 7/8         | 0.875               | 18 Lbs.          | 4.000        | 0.100       | 1              | 12             |
|          | 2        | Blue     | 418-6    | 25   | 7/8         | 0.875               | 18 Lbs.          | 4.000        | 0.100       | 1              | 12             |
|          | 2        | Natural  | 840      | 300  | 2 1/8       | 2.125               | 40 Lbs.          | 8.000        | 0.140       | 1              | 12             |
|          | 2        | Natural  | 1150     | 50   | 3 1/8       | 3.125               | 50 Lbs.          | 11.000       | 0.187       | 1              | 12             |
| CTP-650N | 3        | Natural  | 418      | 300  | 7/8         | 0.875               | 18 Lbs.          | 4.000        | 0.100       | 1              | 12             |
|          | 3        | Natural  | 840      | 300  | 2 1/8       | 2.125               | 40 Lbs.          | 8.000        | 0.140       | 1              | 12             |
|          | 3        | Natural  | 1150     | 50   | 3 1/8       | 3.125               | 50 Lbs.          | 11.000       | 0.187       | 1              | 12             |
| CTP-650B | 4        | UV Black | 4180     | 300  | 7/8         | 0.875               | 18 Lbs.          | 4.000        | 0.100       | 1              | 12             |
|          | 4        | UV Black | 8400     | 300  | 2 1/8       | 2.125               | 40 Lbs.          | 8.000        | 0.140       | 1              | 12             |
|          | 4        | UV Black | 11500    | 50   | 3 1/8       | 3.125               | 50 Lbs.          | 11.000       | 0.187       | 1              | 12             |



# CABLE TIES

## Natural & Weather Resistant Mountable Ties

-MH Series

### SPECIFICATIONS

- cULus Listed for Positioning Devices UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C).
- **Ideal Storage:** 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".

### FEATURES

- Standard mountable cable ties are manufactured from natural Nylon 66 and come complete with a mounting hole.
- Black weather mountable cable ties are also screw mounted, are manufactured from Weather Resistant Nylon 66 and suitable for outdoor use.



| CAT. NO. | COLOR    | MAX. WIRE/CABLE SIZE | MAX BUNDLE DIAMETER | TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|----------|----------------------|---------------------|------------------|--------------|-------------|----------------|----------------|
| 530MH    | Natural  | 5"                   | 1.500               | 30 Lbs.          | 6.000        | 0.145       | 100            | 1,000          |
| 750MH    | Natural  | 7"                   | 2.250               | 50 Lbs.          | 8.000        | 0.165       | 100            | 1,000          |
| 1150MH   | Natural  | 11"                  | 3.250               | 50 Lbs.          | 11.750       | 0.188       | 100            | 1,000          |
| 1450MH   | Natural  | 14"                  | 4.000               | 50 Lbs.          | 14.500       | 0.188       | 100            | 500            |
| 14120MH  | Natural  | 14"                  | 4.750               | 120 Lbs.         | 15.500       | 0.310       | 100            | 500            |
| 5300MH   | UV Black | 5"                   | 1.500               | 30 Lbs.          | 6.000        | 0.145       | 100            | 1,000          |
| 7500MH   | UV Black | 7"                   | 2.000               | 50 Lbs.          | 8.000        | 0.165       | 100            | 1,000          |
| 11500MH  | UV Black | 11"                  | 3.250               | 50 Lbs.          | 11.750       | 0.188       | 100            | 1,000          |
| 14500MH  | UV Black | 14"                  | 4.000               | 50 Lbs.          | 14.500       | 0.188       | 100            | 500            |
| 141200MH | UV Black | 14"                  | 4.750               | 120 Lbs.         | 15.500       | 0.310       | 100            | 500            |



# CABLE TIES

## Velcro Ties

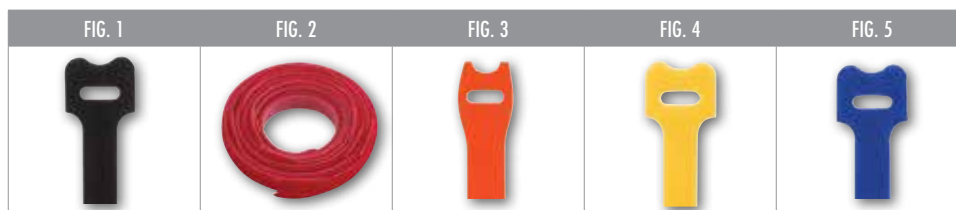
### V Series

### SPECIFICATIONS

- UL Recognized.

### FEATURES

- Unique back-to-back fastening system: a self-gripping, double-sided strap that is easy to use and cost effective.
- Molded high performance polyethylene hook fastener laminated on to a non-woven polyester loop.
- Low peel strength allows for easy entry or removal by the user yet the average shear strength is 3.0 PSI, which increases substantially with each circular rotation.
- Will not over-cinch delicate cable and fiber optics.
- For use with cord and cable management, wire harnesses, inventory control, fibre optics, packaging, in-plant maintenance, etc.
- Allow for a minimum 2" overlap when installing.
- Available in five colors.



| CAT. NO. | FIG. NO. | COLOR  | MAX. WIRE/CABLE SIZE | MAX. BUNDLE DIAMETER | LENGTH (IN.) | WIDTH (IN.) | PCS. PER. PKG. | PKG. PER. CTN. |
|----------|----------|--------|----------------------|----------------------|--------------|-------------|----------------|----------------|
| V850     | 1        | Black  | 8"                   | 1.750                | 8"           | 0.500       | 10             | 25             |
| V850-2   | 2        | Red    | 8"                   | 1.750                | 8"           | 0.500       | 10             | 25             |
| V850-3   | 3        | Orange | 8"                   | 1.750                | 8"           | 0.500       | 10             | 25             |
| V850-4   | 4        | Yellow | 8"                   | 1.750                | 8"           | 0.500       | 10             | 25             |
| V850-6   | 5        | Blue   | 8"                   | 1.750                | 8"           | 0.500       | 10             | 25             |
| V1250    | 1        | Black  | 12"                  | 3.000                | 12"          | 0.500       | 10             | 20             |
| V1250-2  | 2        | Red    | 12"                  | 3.000                | 12"          | 0.500       | 10             | 20             |
| V1250-4  | 4        | Yellow | 12"                  | 3.000                | 12"          | 0.500       | 10             | 20             |
| V1250-6  | 5        | Blue   | 12"                  | 3.000                | 12"          | 0.500       | 10             | 20             |
| V875     | 1        | Black  | 80"                  | Perforated Every 8"  | 80"          | 0.75        | 1              | 10             |
| V1275    | 1        | Black  | 10'                  | Perforated Every 12" | 10'          | 0.75        | 1              | 10             |
| V180*    | 1        | Black  | 15'                  | Roll                 | 15'          | 0.75        | 1              | 10             |
| V900*    | 1        | Black  | 75'                  | Roll                 | 75'          | 0.75        | 1              | 3              |
| V7200*   | 1        | Black  | 600'                 | Roll                 | 600'         | 0.75        | 1              | 1              |

\*Rolls of Velcro tape can be cut to desired length.

CABLE TIES





# CABLE TIES

## Cable Ties with Stainless Steel Barb

-SB Series

### SPECIFICATIONS

- cULus Listed for Positioning Devices UL62275.
- **Temperature Rating:** Min., -40°F to Max., 185°F (-40°C to 85°C).
- **Ideal Storage:** 23°C, Humidity 50%, Avoid storing cable ties next to warm objects.
- **Type 21 AH-2:** "Suitable for use in air-handling spaces (Plenums)".

### FEATURES

- Natural and UV resistant black, nylon cable ties have stainless steel barb; barb is at 45° pitch with 60° cutting angle, setting strap to desired position to suit all diameters in range.
- Flexible and resistant at low temperatures and humidity-free environments.
- Cold and fastening resistances are higher than normal cable tie tolerances.



| CAT. NO.  | COLOR    | MAX. WIRE/CABLE SIZE | MAX. BUNDLE DIA. | MIN. TENSILE STRENGTH | LENGTH (IN.) | WIDTH (IN.) | STD. PKG. QTY. |
|-----------|----------|----------------------|------------------|-----------------------|--------------|-------------|----------------|
| 418-SB    | Natural  | 4"                   | 0.944            | 18 Lbs.               | 4.000        | 0.100       | 100            |
| 540-SB    | Natural  | 5"                   | 1.417            | 40 Lbs.               | 5.500        | 0.137       | 100            |
| 750-SB    | Natural  | 7"                   | 2.007            | 50 Lbs.               | 7.322        | 0.177       | 100            |
| 818-SB    | Natural  | 8"                   | 2.165            | 18 Lbs.               | 7.874        | 0.100       | 100            |
| 840-SB    | Natural  | 8"                   | 2.165            | 40 Lbs.               | 7.874        | 0.137       | 100            |
| 1140-SB   | Natural  | 11"                  | 3.149            | 40 Lbs.               | 11.023       | 0.137       | 100            |
| 1150-SB   | Natural  | 11"                  | 3.149            | 50 Lbs.               | 11.023       | 0.177       | 100            |
| 1450-SB   | Natural  | 14"                  | 3.976            | 50 Lbs.               | 14.173       | 0.177       | 100            |
| 14120-SB  | Natural  | 14"                  | 3.976            | 120 Lbs.              | 14.173       | 0.295       | 50             |
| 4180-SB   | UV Black | 4"                   | 0.944            | 18 Lbs.               | 4.000        | 0.100       | 100            |
| 5400-SB   | UV Black | 5"                   | 1.417            | 40 Lbs.               | 5.500        | 0.137       | 100            |
| 7500-SB   | UV Black | 7"                   | 2.007            | 50 Lbs.               | 7.322        | 0.177       | 100            |
| 8180-SB   | UV Black | 8"                   | 2.165            | 18 Lbs.               | 7.874        | 0.100       | 100            |
| 8400-SB   | UV Black | 8"                   | 2.165            | 40 Lbs.               | 7.874        | 0.137       | 100            |
| 11400-SB  | UV Black | 11"                  | 3.149            | 40 Lbs.               | 11.023       | 0.137       | 100            |
| 11500-SB  | UV Black | 11"                  | 3.149            | 50 Lbs.               | 11.023       | 0.177       | 100            |
| 14500-SB  | UV Black | 14"                  | 3.976            | 50 Lbs.               | 14.173       | 0.177       | 100            |
| 141200-SB | UV Black | 14"                  | 3.976            | 120 Lbs.              | 14.173       | 0.295       | 50             |

# CABLE TIES

## Cable Tie Installation Tools

TRT, SSCT Series

### FEATURES

#### TRT

- Ergonomic, durable cable tie tools suitable for tensile strengths from 18lb through 250lb extra heavy lashing ties.

#### SSCT

- Stainless Steel manual tools are ergonomic, durable cable tie tools suitable for 100lb and 250lb tensile strength stainless steel ties.
- SSCT-5 has preset tension adjustment control, allowing for uniform tension setting and automatic cutting on each bundle.



| CAT. NO. | FIG. NO. | TOOL DUTY                       | APPLICATION   | MIN. TENSILE STRENGTH | STD. CTN. QTY. |
|----------|----------|---------------------------------|---|-----------------------|----------------|
| TRT-200  | 1        | Durable plastic.                | Miniature, intermediate, and standard duty cable ties | 18-50 Lbs.            | 1              |
| TRT-400  | 2        | Extra Heavy Duty, all-metal.    | Miniature up to extra Heavy Duty cable ties           | 18-250 Lbs.           | 1              |
| TRT-500  | 3        | Deluxe cable tie tool.          | Miniature up to Standard Duty cable ties              | 18-50 Lbs.            | 1              |
| SSCT-5   | 4        | Stainless Steel cable tie tool. | 100lb and 250lb Stainless Steel cable ties            | 100-250 Lbs.          | 1              |

CABLE TIES

# CABLE TIES

## Cable Ties Adhesive Mounts

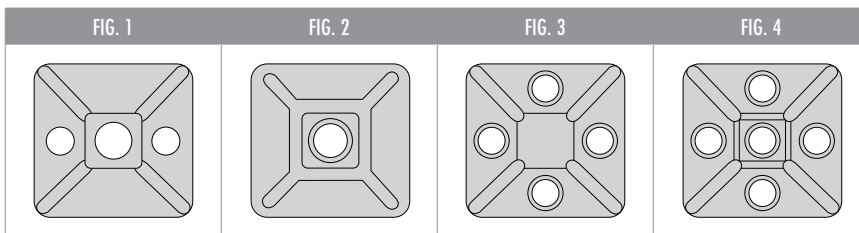
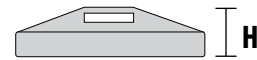
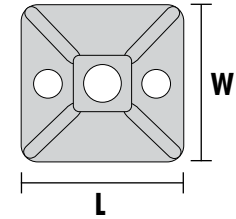
FTH Series

### SPECIFICATIONS

- Temperature Rating: -80 °C to 538 °C (-112 °F to 1000.4 °F).

### FEATURES

- Mounts are used to route and fasten cable-tied bundles to flat surfaces.
- Cable ties may be inserted from any of four directions, eliminating orientation time.
- The top of the mount has a cradle design which allows the bundle to fit snugly and a mounting hole for additional support, where required.



| CAT. NO. | FIG. NO. | COLOR   | SLOT WIDTH | LENGTH (IN.) | WIDTH (IN.) | HEIGHT |
|----------|----------|---------|------------|--------------|-------------|--------|
| FTH5A    | 1        | Natural | 0.140      | 0.750        | 0.750       | 0.140  |
| FTH5A-B  | 1        | Black   | 0.140      | 0.750        | 0.750       | 0.140  |
| FTH7A    | 2        | Natural | 0.203      | 1.000        | 1.000       | 0.160  |
| FTH7A-B  | 2        | Black   | 0.203      | 1.000        | 1.000       | 0.160  |
| FTH15A   | 3        | Natural | 0.394      | 1.500        | 1.500       | 0.300  |
| FTH15A-B | 3        | Black   | 0.394      | 1.500        | 1.500       | 0.300  |
| FTH20A   | 4        | Natural | 0.500      | 2.000        | 2.000       | 0.500  |
| FTH20A-B | 4        | Black   | 0.500      | 2.000        | 2.000       | 0.500  |

# CABLE TIES

## Push Mounts

### SM Series

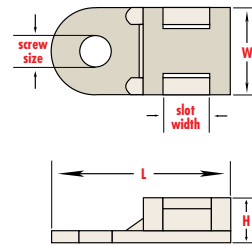
### SPECIFICATIONS

- Temperature Rating: -80 °C to 538 °C (-112 °F to 1000.4 °F).

### FEATURES

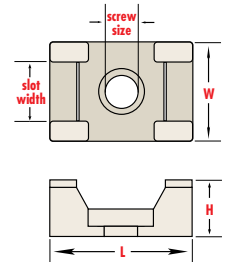
- Manufactured using UL approved Nylon 66, 94V-2.
- Saddle design provides maximum stability to wire bundles.

Figure 1



SM-0, OL

Figure 2



SM-1, 2, 3



| CAT. NO. | FIG. NO. | COLOR   | SCREW SIZE | SLOT WIDTH | LENGTH (IN.) | WIDTH (IN.) | HEIGHT (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|----------|---------|------------|------------|--------------|-------------|--------------|----------------|----------------|
| SM-0     | 1        | Natural | 0.133      | 0.200      | 0.750        | 0.370       | 0.200        | 100            | 1,000          |
| SM-OL    | 1        | Natural | 0.204      | 0.200      | 0.750        | 0.370       | 0.200        | 100            | 1,000          |
| SM-1     | 2        | Natural | 0.120      | 0.280      | 0.590        | 0.390       | 0.280        | 100            | 1,000          |
| SM-2     | 2        | Natural | 0.130      | 0.160      | 0.500        | 0.280       | 0.230        | 100            | 1,000          |
| SM-3     | 2        | Natural | 0.236      | 0.350      | 0.900        | 0.630       | 0.350        | 100            | 1,000          |
| SM-1-B   | 2        | Black   | 0.120      | 0.280      | 0.590        | 0.390       | 0.280        | 100            | 1,000          |
| SM-2-B   | 2        | Black   | 0.130      | 0.160      | 0.500        | 0.280       | 0.230        | 100            | 1,000          |
| SM-3-B   | 2        | Black   | 0.236      | 0.350      | 0.900        | 0.630       | 0.350        | 100            | 1,000          |

# CABLE TIES

## Polyethylene Nail Clips

### PNC Series

#### FEATURES

- Made from impact resistant, non-corrosive polyethylene.
- Supplied with corrosion resistant, hardened steel nails already inserted for ease-of-use.
- The smooth polyethylene surface prevents damage to the insulation.

Figure 1

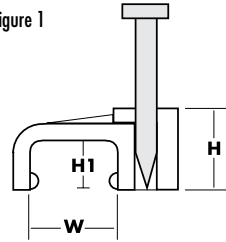
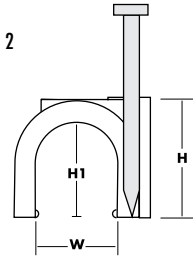


Figure 2



| CAT. NO. | FIG. NO. | COLOR | WIDTH | HEIGHT (IN.) | HEIGHT 1 (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|----------|-------|-------|--------------|----------------|----------------|----------------|
| PNC-217W | 1        | White | 0.217 | 0.216        | 0.122          | 100            | 1,000          |
| PNC-335W | 1        | White | 0.335 | 0.315        | 0.205          | 100            | 1,000          |
| PNC-157G | 2        | Grey  | 0.157 | 0.260        | 0.165          | 100            | 1,000          |
| PNC-197G | 2        | Grey  | 0.197 | 0.299        | 0.206          | 100            | 1,000          |
| PNC-236G | 2        | Grey  | 0.236 | 0.354        | 0.260          | 100            | 1,000          |
| PNC-315G | 2        | Grey  | 0.315 | 0.453        | 0.339          | 100            | 1,000          |
| PNC-391G | 2        | Grey  | 0.391 | 0.528        | 0.413          | 100            | 1,000          |

# CABLE TIES

## Nail-On Plastic Staples for Romex

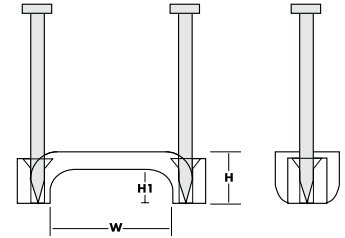
### PNC Series

#### SPECIFICATIONS

- RoHS Compliant.

#### FEATURES

- PNC-492W is suitable for use with 14/2, 14/3 or 12/2.
- PNC-736W is suitable for use with 12/3, 10/2 or 10/3.



| CAT. NO. | FIG. NO. | COLOR | WIDTH | HEIGHT (IN.) | HEIGHT 1 (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|----------|-------|-------|--------------|----------------|----------------|----------------|
| PNC-492W | 1        | White | 0.492 | 0.315        | 0.209          | 100            | 5,000          |
| PNC-736W | 2        | White | 0.736 | 0.315        | 0.209          | 100            | 5,000          |

# CABLE TIES

## Adjustable Cable Clamps & Masonry Push Mount

ADJCC, MPM Series

### FEATURES

#### Adjustable Cable Clamps (ADJCC)

- Clamps are adjustable to accommodate various sizes of cables.
- Easy to install and open for unlimited usage. Manufactured using UL approved Nylon 66, 94V-2 and have an adhesive tape backing.

#### Masonry Push Mount (MPM)

- Manufactured using UL approved Nylon 66, 94V-2. Installs in masonry surfaces.
- Simply pre-drill a mounting hole, hammer the push mount in, then feed a cable tie through the head.

Figure 1

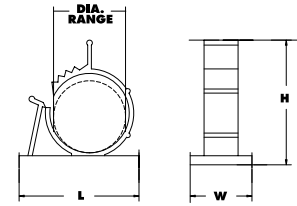
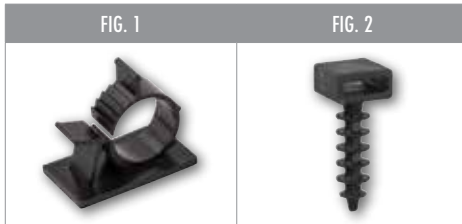
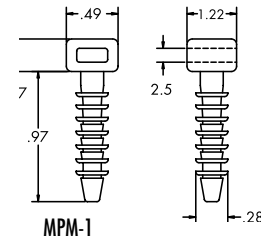


Figure 2



| CAT. NO. | FIG. NO. | CABLE TIE WIDTH ACCEPTABLE | THREAD LENGTH | OVERALL WIDTH | THREAD WIDTH | HEAD SIZE L X W | DIA. RANGE   | LENGTH (IN.) | WIDTH (IN.) | HEIGHT (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|----------|----------------------------|---------------|---------------|--------------|-----------------|--------------|--------------|-------------|--------------|----------------|----------------|
| ADJCC-1  | 1        | —                          | —             | —             | —            | —               | 0.31 to 0.40 | 1.000        | 0.750       | 0.870        | 100            | 1,000          |
| ADJCC-3  | 1        | —                          | —             | —             | —            | —               | 0.50 to 0.60 | 1.500        | 0.750       | 1.250        | 100            | 1,000          |
| ADJCC-5  | 1        | —                          | —             | —             | —            | —               | 0.87 to 1.00 | 1.650        | 1.000       | 1.750        | 100            | 1,000          |
| MPM-1    | 2        | 0.39                       | 0.97          | 1.22          | 0.28         | 0.49 x 0.47     | —            | —            | —           | —            | 100            | 500            |



# CABLE TIES

## Standard Duty Nylon Cable Clamps

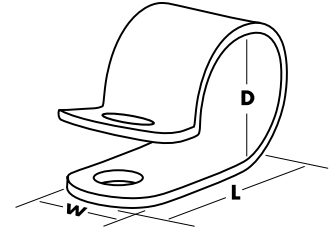
NC Series

### SPECIFICATIONS

- RoHS Compliant.

### FEATURES

- Standard duty clamps are similar to heavy duty nylon cable clamps, except narrower in width.
- Made from Nylon 66. 94 V-2 rated.
- Complete with 0.180" mounting hole.



| CAT. NO. | FIG. NO. | COLOR   | DIAMETER | LENGHT (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|----------|----------|---------|----------|--------------|-------------|----------------|----------------|
| NC-125   | 1        | Natural | 0.125    | 0.780        | 0.378       | 100            | 1,200          |
| NC-125-0 | 2        | Black   | 0.125    | 0.780        | 0.378       | 100            | 1,200          |
| NC-187   | 1        | Natural | 0.187    | 0.780        | 0.378       | 100            | 1,200          |
| NC-187-0 | 2        | Black   | 0.187    | 0.780        | 0.378       | 100            | 1,200          |
| NC-250   | 1        | Natural | 0.250    | 0.790        | 0.394       | 100            | 1,200          |
| NC-250-0 | 2        | Black   | 0.250    | 0.790        | 0.394       | 100            | 1,200          |
| NC-312   | 1        | Natural | 0.312    | 0.860        | 0.394       | 100            | 1,200          |
| NC-312-0 | 2        | Black   | 0.312    | 0.860        | 0.394       | 100            | 1,200          |
| NC-375   | 1        | Natural | 0.375    | 0.940        | 0.375       | 100            | 1,200          |
| NC-375-0 | 2        | Black   | 0.375    | 0.940        | 0.375       | 100            | 1,200          |
| NC-500   | 1        | Natural | 0.500    | 1.220        | 0.375       | 100            | 1,200          |
| NC-500-0 | 2        | Black   | 0.500    | 1.220        | 0.375       | 100            | 1,200          |

# CABLE TIES

## Heavy Duty Nylon Cable Clamps

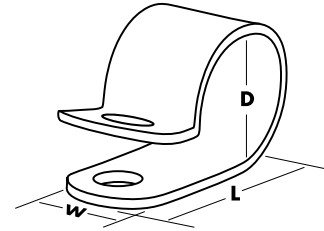
NCH Series

### SPECIFICATIONS

- RoHS Compliant.

### FEATURES

- Made from Nylon 66. 94V-2 rated.
- Designed with wide arc to hold cables, tubes, etc.
- Fully radiused interior edges to protect cable insulation.
- Non-conductive, non-corrosive, resistant to fuels, lubricants and most chemicals.
- 0.180" mounting hole.



| CAT. NO.  | FIG. NO. | COLOR   | DIAMETER | LENGHT (IN.) | WIDTH (IN.) | STD. PKG. QTY. | STD. CTN. QTY. |
|-----------|----------|---------|----------|--------------|-------------|----------------|----------------|
| NCH-250   | 1        | Natural | 0.250    | 0.790        | 0.500       | 100            | 1,200          |
| NCH-250-0 | 2        | Black   | 0.250    | 0.790        | 0.500       | 100            | 1,200          |
| NCH-312   | 1        | Natural | 0.312    | 0.860        | 0.500       | 100            | 1,200          |
| NCH-312-0 | 2        | Black   | 0.312    | 0.860        | 0.500       | 100            | 1,200          |
| NCH-375   | 1        | Natural | 0.375    | 0.940        | 0.472       | 100            | 1,200          |
| NCH-375-0 | 2        | Black   | 0.375    | 0.940        | 0.472       | 100            | 1,200          |
| NCH-437   | 1        | Natural | 0.437    | 1.080        | 0.500       | 100            | 1,200          |
| NCH-500   | 1        | Natural | 0.500    | 1.220        | 0.472       | 100            | 1,200          |
| NCH-500-0 | 2        | Black   | 0.500    | 1.220        | 0.472       | 100            | 1,200          |
| NCH-562   | 1        | Natural | 0.562    | 1.280        | 0.500       | 100            | 1,200          |
| NCH-625   | 1        | Natural | 0.625    | 1.350        | 0.472       | 100            | 1,200          |
| NCH-750   | 1        | Natural | 0.750    | 1.380        | 0.472       | 100            | 1,200          |
| NCH-1000  | 1        | Natural | 1.000    | 1.690        | 0.472       | 100            | 1,200          |







# HARDWARE, TOOLS & TESTERS



# HARDWARE, TOOLS & TESTERS

## Hydraulic Compression Tool

### Dieless & 12 Ton Hydraulic Crimping Tool

Tools



#### SPECIFICATIONS

- UL and cUL Listed\*.

#### CROSS-REFERENCE GUIDE

- NSI: N1240
- GREENLEE: KC12, KD12, U-Style
- BURNDY: U
- THOMAS & BETTS: 15500 Series
- ILSCO: ILD
- HUSKIE: HT41
- PANDUIT: CD-920
- BLACKBURN: B,H
- PENN-UNION: T

#### NOTE

\*UL and cUL classified with NSI Industries, LLC, Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®, Thomas & Betts®, Penn-Union®, Tyco® color coded connectors. The products listed above are registered trademarks of Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®, Thomas & Betts®, Penn-Union® and Tyco®.

#### FEATURES

##### Dieless Hydraulic Crimping Tool

- N121D Dieless indent style crimping head does not require interchangeable crimping dies.
- Flip-open Crimping head rotates 350 degrees to get into tight locations.
- Two-speed pump provides rapid crimping cycle time.
- Lightweight and strong fiberglass handles.
- Comes with a molded carrying case.
- Copper: 4AWG-1000kcmil (MCM).
- Aluminum: 6AWG-1000kcmil (MCM).
- 26", 15 lbs.

##### U-Die Type Hydraulic Crimping Tool

- N1240 with 1.65 in (42mm) opening.
- Accepts KC12, KA12 and KD12 crimping dies as well as industry "U" style dies.
- New head design results in lower weight and improved durability – tested to 50,000 crimp cycles.
- Two-speed pump to reduce cycle time.
- Ram automatically retracts when crimp cycle is complete.
- Crimping heads rotate 350 degrees.
- Smaller and lighter than most tools.
- Includes carrying case.
- N1240 - 8 AWG to 750 kcmil copper and aluminum color-coded lugs and splices.
- 21 1/2", 13-2 lbs.



| CAT. NO. | FIG. NO. | DESCRIPTION                                       | CRIMPING FORCE  | LENGTH (IN) | WEIGHT (LBS) | STD. CTN. QTY. |
|----------|----------|---|-----------------|-------------|--------------|----------------|
| N121D*   | 1        | Dieless Hydraulic Crimping Tool                   | –               | 26          | 15           | 1              |
| N1240*   | 2        | 12 Ton hydraulic Crimping Tool, 1.65 in. opening. | 24,000 (12 Ton) | 21-1/2      | 12.2         | 1              |

# HARDWARE, TOOLS & TESTERS

## Crimping Dies & Carrying Case

### Tools

#### KA, KC Series



#### NOTE

\*UL and cUL classified with Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®, Thomas & Betts®, Penn-Union®, Tyco® color coded connectors. The products listed above are registered trademarks of Anderson®, Blackburn®, Burndy®, ILSCO®, Panduit®, Thomas & Betts®, Penn-Union® and Tyco®.

#### FEATURES

- KA, KC Series dies for use in NSi N1240 Hydraulic Compression Tool and industry standard tools using the "U" type dies.



| FOR USE WITH ALUMINUM CONDUCTORS. |          |                                      |                     | FOR USE WITH COPPER CONDUCTORS. |          |                 |                   |                |
|-----------------------------------|----------|--------------------------------------|---------------------|---------------------------------|----------|-----------------|-------------------|----------------|
| CAT. NO.                          | FIG. NO. | DESCRIPTION                          | ALUMINUM COLOR CODE | CAT. NO.                        | FIG. NO. | DESCRIPTION     | COPPER COLOR CODE | STD. CTN. QTY. |
| KA12-8*                           | 1        | 8 AWG, Aluminum                      | BLUE                | KC12-8*                         | 2        | 8 AWG, Copper   | RED               | 1              |
| KA12-6*                           | 1        | 6 AWG, Aluminum                      | GREY                | KC12-6*                         | 2        | 6 AWG, Copper   | BLUE              | 1              |
| KA12-4*                           | 1        | 4 AWG, Aluminum                      | GREEN               | KC12-4*                         | 2        | 4 AWG, Copper   | GREY              | 1              |
| KA12-2*                           | 1        | 2 AWG, Aluminum                      | PINK                | KC12-2*                         | 2        | 2 AWG, Copper   | BROWN             | 1              |
| KA12-1*                           | 1        | 1 AWG, Aluminum                      | GOLD                | KC12-1*                         | 2        | 1 AWG, Copper   | GREEN             | 1              |
| KA12-1/0*                         | 1        | 1/0 AWG, Aluminum                    | TAN                 | KC12-1/0*                       | 2        | 1/0 AWG, Copper | PINK              | 1              |
| KA12-2/0*                         | 1        | 2/0 AWG, Aluminum                    | OLIVE               | KC12-2/0*                       | 2        | 2/0 AWG, Copper | BLACK             | 1              |
| KA12-3/0*                         | 1        | 3/0 AWG, Aluminum                    | RUBY                | KC12-3/0*                       | 2        | 3/0 AWG, Copper | ORANGE            | 1              |
| KA12-4/0*                         | 1        | 4/0 AWG, Aluminum                    | WHITE               | KC12-4/0*                       | 2        | 4/0 AWG, Copper | PURPLE            | 1              |
| KA12-250*                         | 1        | 250 MCM, Aluminum                    | RED                 | KC12-250*                       | 2        | 250 MCM, Copper | YELLOW            | 1              |
| KA12-300*                         | 1        | 300 MCM, Aluminum                    | BLUE                | KC12-300*                       | 2        | 300 MCM, Copper | WHITE             | 1              |
| KA12-350*                         | 1        | 350 MCM, Aluminum                    | BROWN               | KC12-350*                       | 2        | 350 MCM, Copper | RED               | 1              |
| KA12-400*                         | 1        | 400 MCM, Aluminum                    | GREEN               | KC12-400*                       | 2        | 400 MCM, Copper | BLUE              | 1              |
| KA12-500*                         | 1        | 500 MCM, Aluminum                    | PINK                | KC12-500*                       | 2        | 500 MCM, Copper | BROWN             | 1              |
| KA12-600*                         | 1        | 600 MCM, Aluminum                    | BLACK               | KC12-600*                       | 2        | 600 MCM, Copper | GREEN             | 1              |
| KA12-750*                         | 1        | 750 MCM, Aluminum                    | YELLOW              | KC12-750*                       | 2        | 750 MCM, Copper | BLACK             | 1              |
| 01082                             | 3        | Crimping die carrying case, 15 pairs | —                   | —                               | —        | —               | —                 | 1              |



# HARDWARE, TOOLS & TESTERS

## Hydraulic Die & Battery-Operated Die Type Crimping Tools



### SPECIFICATIONS

#### Hydraulic Dies

- Not UL Listed/CSA.

#### Power 750

- UL Listed and CSA.

#### NOTE

- U-Type Compression Die Chart: See page 158.

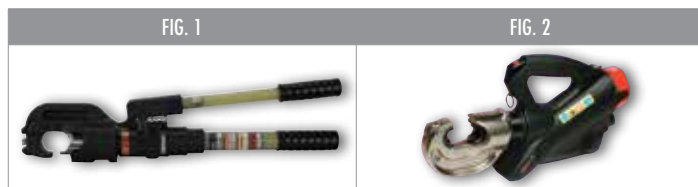
### FEATURES

#### Hydraulic Dies

- 12-Ton Compression Tool for U-Type Dies.
- Delivers 12 tons of hydraulic force.
- 1/2" jaw opening for large conductors and taps.
- Automatic two-speed pump action for rapid ram advancement.
- Fast ram release with twist of handle.
- 180° head rotation.
- Accepts all standard U-type dies.
- Not UL Listed/CSA.

#### Power 750 (Battery Operated)

- 14.6 tons, 1.65" jaw opening for U-type dies.
- Powerful 14.4 Volt battery crimper.
- High power Ni-Cad battery.
- 180° head rotation.
- Reinforced molded nylon body.
- Pressure release button.
- Switch-protected against accidental operation.
- Battery condition display.
- Balanced tool and sculptured body for greater control.
- Ergonomically designed center grip handle.
- 10,000 PSI rated operating pressure.
- Includes steel carrying case, shoulder strap, spare battery and battery charger.
- Accepts all standard U-type dies.
- UL Listed and CSA.



| CAT. NO. | FIG. NO. | WIRE RANGE AL-CU |       | LENGTH (IN) |
|----------|----------|------------------|-------|-------------|
|          |          | MAX.             | MIN.  |             |
| NSI-12   | 1        | 750 MCM          | 8 STR | 23          |
| P-750    | 2        | 750 MCM          | 8 STR | 16.5        |

# HARDWARE, TOOLS & TESTERS

## U-Type Compression Dies

Tools

CD Series

### FEATURES

- For use in NSi N12 and N1240 Compression Tools.

| CAT. NO. | DIE INDEX NO. | NSI TOOL DIE INDEX | T&B TOOL DIE INDEX | ILSCO TOOL DIE INDEX | HUSKIE TOOL DIE INDEX | BURNDY TOOL DIE INDEX | ALUMINUM COLOR CODE | COPPER LUGS AND SPLICES | WIRE SIZE ALUM. LUGS AND SPLICES | BI-METALLIC PIN TERMINALS |
|----------|---------------|--------------------|--------------------|----------------------|-----------------------|-----------------------|---------------------|-------------------------|----------------------------------|---------------------------|
| CD2      | 7/374         | AT                 | 24                 | ILD-2                | AT                    | 7                     | BLUE                | 6                       | 8                                | –                         |
| CD3      | 8/346         | AU                 | 29                 | ILD-3                | AU                    | 8                     | GREY                | 4                       | 6                                | –                         |
| CD4      | 10            | AW                 | 33                 | ILD-4                | AW                    | 10                    | BROWN               | 2                       | –                                | –                         |
| CD5A     | 375           | GM                 | 3                  | ILD-4                | GM                    | 375                   | GREEN               | 1                       | 4                                | –                         |
| CD6A     | 348           | GF                 | 42H                | ILD-5                | GF                    | 348                   | PINK                | 1/0                     | 2                                | –                         |
| CD7      | 13            | AZ                 | 45                 | ILD-6                | AZ                    | 13                    | BLACK               | 2/0                     | –                                | –                         |
| CD9      | 296           | EX                 | 50                 | ILD-8                | EX                    | 296                   | TAN                 | –                       | 1/0                              | –                         |
| CD10     | 14            | BA                 | 50                 | ILD-9                | BA                    | 14                    | ORANGE              | 3/0                     | –                                | 6, 4, 2, 1                |
| CD11     | 297           | EY                 | 54H                | –                    | EY                    | 297                   | OLIVE               | –                       | 2/0                              | –                         |
| CD12     | 15            | BC                 | 54H                | ILD-10               | BC                    | 15                    | PURPLE              | 4/0                     | –                                | –                         |
| CD13     | 467           | GW                 | 60                 | –                    | GW                    | 467                   | RUBY                | –                       | 3/0                              | –                         |
| CD14     | 16            | BE                 | 62                 | ILD-11               | BE                    | 16                    | YELLOW              | 250 MCM                 | –                                | –                         |
| CD15     | 17            | BF                 | 66                 | ILD-12               | BF                    | 17                    | WHITE               | 300 MCM                 | –                                | –                         |
| CD15A    | 298           | EZ                 | 66                 | ILD-12               | EZ                    | 298                   | WHITE               | 300 MCM                 | 4/0                              | –                         |
| CD16     | 18            | BJ                 | 71H                | ILD-13               | BJ                    | 18                    | RED                 | 350 MCM                 | –                                | –                         |
| CD16A    | 324           | FW                 | 71H                | ILD-13               | FW                    | 324                   | RED                 | 350 MCM                 | 250 MCM                          | 1/0, 2/0, 3/0, 4/0        |
| CD17     | 19            | BK                 | 76                 | ILD-14               | BK                    | 19                    | BLUE                | 400 MCM                 | –                                | –                         |
| CD17A    | 470           | BK                 | 76                 | ILD-14               | BK                    | 470                   | BLUE                | 400 MCM                 | 300 MCM                          | –                         |
| CD18     | 20            | BL                 | 87H                | ILD-15               | BL                    | 20                    | BROWN               | 500 MCM                 | –                                | –                         |
| CD18A    | 299           | FA                 | 87H                | –                    | FA                    | 299                   | BROWN               | 500 MCM                 | 350 MCM                          | 250, 300, 350, MCM        |
| CD19     | 22            | HH                 | 94H                | ILD-16               | HH                    | 472                   | GREEN               | 600 MCM                 | –                                | –                         |
| CD19A    | 472           | BM                 | 94H                | ILD-16               | BM                    | 22                    | GREEN               | 600 MCM                 | 400 MCM                          | –                         |
| CD20     | 300           | FB                 | 99H                | ILD-16A              | FB                    | 300                   | PINK                | –                       | 500 MCM                          | 400, 500 MCM              |
| CD21     | 24            | BP                 | 106H               | ILD-17               | BP                    | 24                    | BLACK               | 750 MCM                 | –                                | –                         |
| CD21A    | 743           | BP                 | 106H               | ILD-17               | BP                    | 473                   | BLACK               | 750 MCM                 | 600 MCM                          | –                         |
| CD23     | 936           | LJ                 | 115H               | –                    | LJ                    | 936                   | YELLOW              | –                       | 750 MCM                          | 600, 750 MCM              |

# HARDWARE, TOOLS & TESTERS

## Mechanical Crimpers & Tools, Ratchet-Drive Crimpers

### Manual Crimp Tools

#### FEATURES

##### 1. MECHANICAL SINGLE-INDENT LUG CRIMPERS (M-250)

- Manually operated single-indent compressor tool.
- Wire Range: CU-250 MCM to 8 AWG and AL-4/0 AWG to 8 AWG.
- Requires no dies.

##### 2. MECHANICAL SINGLE-INDENT LUG CRIMPERS (M-500)

- Extendable handle design provides increased leverage and allows you to crimp connectors up to 500 MCM.
- Requires no dies.

##### 3. MECHANICAL TOOL (OD-58, OD-581)

- With 5/8" nose die.
- For copper and aluminum.

##### 4. MECHANICAL TOOL (OD-59)

- With 5/8" nose die.
- For copper and aluminum.

##### 5. RACHET-DRIVE CRIMPERS (RDC1/0)

- For non-insulated terminals from 6 to 1/0 AWG and insulated terminals from 22 to 8 AWG.
- Rugged, compact and lightweight.
- Requires minimum effort due to ratchet action, ensuring an excellent crimp every time.



| CAT. NO. | FIG. NO. | DESCRIPTION  | INSERT DIES FOR OD581 AND OD59 |                   |
|----------|----------|--|--------------------------------|-------------------|
|          |          |  | CAT. NO.                       | DESCRIPTION       |
| M-250    | 1        | Mechanical Crimper Up To 250 MCM   | OJB                            | 'O' die for OD581 |
| M-500    | 2        | Mechanical Crimper Up To 500 MCM   | DBL                            | 'D' die for OD581 |
| OD58     | 3        | Mechanical Crimper For WR Series/H-Tap Connectors  | BY37C                          | 840 red for OD581 |
| OD581    | 3        | Mechanical Crimper For WR Series/H-Tap Connectors With Fibreglass Handles & 5/8" Nose Die. Output: 4.5 Tons.       | U-BG                           | U-BG die for OD59 |
| OD59     | 4        | Mechanical Crimper For Wr Series/H-Tap Connectors. Fiberglass Handles And 'O' And 'D' Nose Dies. Output: 4.5 Tons. | —                              | —                 |
| RDC1/0   | 5        | Ratchet Drive Crimper — 6-1/0 AWG Uninsulated, 22-8 AWG Insulated  | —                              | —                 |

# HARDWARE, TOOLS & TESTERS

## Manual & Ratchet-Drive Cable Cutters

### Tools

For Copper & Aluminum Cables

#### FEATURES

##### Manual Cable Cutters (1-3)

- Rugged, lightweight manual cable cutters available in three sizes to handle all sizes of cable.
- Replacement blades are available for CCM-500 and CCM-1000.

##### Ratchet-Drive Cable Cutters (4-7)

- Fine quality tools crafted for cutting ease, minimum cable distortion and long life.
- Rugged, compact and lightweight.
- High quality steel blades offer excellent cutting-edge performance.
- Handles are made from fiberglass.
- Replacement blades and handles are available.



| CAT. NO.   | FIG. NO. | CABLE CAPACITY                  | FOR USE WITH      | MAX. INSUL. DIA. | LENGTH (IN) |
|------------|----------|---------------------------------|-------------------|------------------|-------------|
| CCM-350    | 1        | 350 MCM                         | Copper & Aluminum | 1.25             | 16          |
| CCM-500    | 2        | 500 MCM                         | Copper & Aluminum | 1.25             | 21          |
| CCM-1000   | 3        | 1000 MCM                        | Copper & Aluminum | 1.90             | 32          |
| CCM-500RB  | —        | Replacement Blades For CCM-500  | —                 | —                | —           |
| CCM-1000RB | —        | Replacement Blades For CCM-1000 | —                 | —                | —           |
| CCR-600    | 4        | 600 MCM                         | Copper & Aluminum | 1.20             | 10          |
| CCR-750    | 5        | 500 MCM                         | Copper & Aluminum | 1.40             | 20          |
| CCR-1000   | 6        | 1000 MCM                        | Copper & Aluminum | 2.38             | 20          |
| CCR-750 RB | 7        | Replacement Blades For CCR-750  | —                 | —                | —           |

# HARDWARE, TOOLS & TESTERS

## Steel Fishtapes

### Tools

#### FTS Series

#### FEATURES

- Extremely flexible and durable flat spring steel.
- Stiffer construction is excellent for long runs.
- Looped end for attaching wires.
- Heavy-duty housing withstands rough conditions.
- High visibility yellow makes fish tape easy to locate.
- Viewing holes to show remaining tape.
- Handle slides through base to reel tape easily.
- 500 lbs. maximum tape strength.



| CAT. NO. | FIG. NO. | DESCRIPTION                     | LENGTH (FT) | END TYPE      |
|----------|----------|---------------------------------|-------------|---------------|
| FTS25    | 1        | Flat Spring Steel Fishtape      | 25          | Torpedo-Style |
| FTS50    | 2        | 1/8" Steel Fishtape c/w handle  | 50          | Formed hook   |
| FTS100   | 3        | Steel Fishtape, Reel and Winder | 100         | Formed hook   |
| FTS120   | 4        | 1/8" Steel Fishtape c/w handle  | 120         | Formed hook   |
| FTS200   | 4        | 1/8" Steel Fishtape c/w handle  | 200         | Formed hook   |

# HARDWARE, TOOLS & TESTERS

## Conduit Benders

### Tools

CB, CBH Series

#### FEATURES

- All NSi conduit benders have cast in-angle indicators with raised bending points of reference to aid the installer.
- The bodies are aluminum die cast which are lightweight yet strong enough for everyday use.
- Handles are tough steel construction and have a black powder coat finish that is textured for better gripping; flared handle corrects overbends.
- Aluminum die cast bender.
- Handles are made of steel.



| CAT. NO. | FIG. NO. | DESCRIPTION  | TYPE                           | HANDLE SIZE (IN.) | HANDLE LENGTH (IN.) | STD. CTN. QTY. |
|----------|----------|--|--------------------------------|-------------------|---------------------|----------------|
| CB100    | 1        | For 1" EMT or 3/4" Rigid, 8 Degree Inside Radius   | Aluminum Die Cast              | —                 | —                   | 12             |
| CB75     | 2        | For 3/4" EMT or 1/2" Rigid, 6 Degree Inside Radius | Aluminum Die Cast              | —                 | —                   | 12             |
| CB50     | 3        | For 1/2" EMT, 5 Degree Inside Radius               | Aluminum Die Cast              | —                 | —                   | 12             |
| CB50WH   | 4        | For 1/2" EMT, 5 Degree Inside Radius               | Aluminum Die Cast With Handles | 3/4 x 38          | —                   | 12             |
| CB75WH   | 4        | For 3/4" EMT or 1/2" Rigid, 6 Degree Inside Radius | Aluminum Die Cast With Handles | 3/4 x 38          | —                   | 12             |
| CB100WH  | 4        | For 1" EMT or 3/4" Rigid, 8 Degree Inside Radius   | Aluminum Die Cast With Handles | 1" x 44           | —                   | 12             |
| CBH75    | 5        | 3/4" Diameter, for use with CB50 and CB75          | Handles only                   | 3/4               | 38                  | 12             |
| CBH100   | 5        | 1" Diameter, for use with CB100                    | Handles only                   | 1                 | 44                  | 12             |

# HARDWARE, TOOLS & TESTERS

## Precision Wire Strippers & Insulated Miniterm Tool

Tools  
TL, NH Series

### FEATURES

- Finest heat-treated spring steel construction with precision-ground cutting edges.
- Double-insulated cushioned handles.
- Strip solid or stranded copper or aluminum wires.



| CAT. NO.  | FIG. NO. | DESCRIPTION   | STD. CTN. QTY. |
|---|----------|---|----------------|
| <b>ADJUSTABLE 10-24 AWG 5" WIRE STRIPPER</b>          |          |   |                |
| TL-ADJ5   | 1        | Adjustment wheel sets wire stripper for 8 wire gauge sizes from 10 to 24 AWG. Wire cutter (CU/AL). Wire looper. Heat treated spring steel. Cushioned double insulated handle.   | 1              |
| <b>10-20 AWG 6" WIRE STRIPPER</b>                     |          |   |                |
| TL-WS6  | 2        | Six precision-cut wire stripping holes: 10, 12, 14, 16, 18, 20 AWG. Pliers nose. Wire cutter (CU/AL). Wire looper. Spring and lock. Heat treated spring steel. Cushioned double insulated handle.   | 1              |
| <b>10-20 AWG 8 1/2" 6-FUNCTION ELECTRICIAN'S TOOL</b> |          |   |                |
| TL-6-1  | 3        | Six precision-cut wire stripping holes: 10, 12, 14, 16, 18, 20 AWG. Pliers nose. Wire cutter (CU/AL). Wire looper. Insulated and non-insulated crimping stations. Bolt cutter and re-threader. Spring and lock. Heat-treated spring steel. Cushioned double insulated handle. | 1              |
| <b>10-22 AWG 9 1/2" 5-FUNCTION ELECTRICIAN'S TOOL</b> |          |   |                |
| TL-5-1  | 4        | Seven wire stripping holes: 10, 12, 14, 16, 18, 20, 22 AWG. Wire cutter nose (CU/AL). Insulated and non-insulated crimping stations. Bolt cutter and re-threader. Heat-treated hardened steel. Cushioned double insulated handle.   | 1              |
| <b>CABLE JACKET RIPPER 4"</b>                         |          |   |                |
| TL-RCR  | 5        | Slits NM jackets on Romex™ cables to allow stripping of internal wires. Wire gauge holes.   | 1              |
| <b>INSULATED MINITERM TOOL</b>                        |          |   |                |
| NH-1  | 6        | A ratchet-action crimping tool for quality crimping of insulated terminals and connectors, including rings, spades, male plugs, female receptacles and disconnects in 22/18, 16/14 and 12/10 AWG wire sizes.  | 1              |
| <b>UNINSULATED MINITERM TOOL</b>                      |          |   |                |
| NH-3  | 7        | Crimp tool for insulated miniterms 22-10 AWG wire sizes.  | 1              |
| NH-4  | 7        | Crimp tool for un-insulated miniterms 22-8 AWG wire sizes.  | 1              |



# HARDWARE, TOOLS & TESTERS

## Electrician's Hand Tools

### Tools

#### TL Series

#### FEATURES

- The essential hand tools for electrical work.
- Heat-treated forged steel construction with precision ground edges for cutting copper and aluminum.
- Double-insulated cushioned handles.



| CAT. NO.  | FIG. NO. | DESCRIPTION  | STD. CTN. QTY. |
|---|----------|--|----------------|
| <b>DIAGONAL CUTTING PLIERS 6 1/2"</b>           |          |  |                |
| TL-DC   | 1        | Designed and shaped for wire cutting in tight places. Wire cutter nose (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles.   | 1              |
| <b>CABLE CUTTER 8"</b>                          |          |  |                |
| TL-CCIH   | 2        | Designed for high-leverage cutting of cable to 2/0 (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles.   | 1              |
| <b>LONG REACH CUTTER/CRIMPER 8"</b>             |          |  |                |
| TL-CRP  | 3        | Long reach design for wire cutting and crimping in tight places. Wire cutter nose (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles.  | 1              |
| <b>LONG NOSE PLIERS/STRIPPER/CRIMPER 6 1/2"</b> |          |  |                |
| TL-LNP  | 4        | For long reach twisting and positioning wires in tight places. Wire cutter (CU/AL). Non-insulated crimping stations. Heat-treated drop-forged steel. Cushioned insulated handles.                              | 1              |
| <b>LINEMAN'S PLIERS 7 1/2"</b>                  |          |  |                |
| TL-LP   | 5        | Designed for high leverage pulling and twisting wires and cables. Threaded wire-gripping nose. Wire cutter (CU/AL). Heat-treated drop-forged steel. Cushioned insulated handles.                               | 1              |
| <b>ELECTRICIAN'S 1000V SCREWDRIVERS</b>         |          |  |                |
| TL-ISS  | 6        | Fully insulated (1000 Volt) screwdriver set. Comfort grip handles and fully insulated shafts for full shock protection (1) #2 Phillips head (1) 3/16" slotted tip. Hang holes. Heat treated drop forged steel. | 1              |

# HARDWARE, TOOLS & TESTERS

## Electrical Multitesters - Analog & Digital

Testers  
TES Series



### SPECIFICATIONS

- cULus and cCSAus Listed.

### FEATURES

- Finest heat-treated spring steel construction with precision-ground cutting edges.
- Double-Insulated cushioned handles.
- Strip solid or stranded copper or aluminum wires.



| CAT. NO.                                       | FIG. NO. | DESCRIPTION  | STD. CTN. QTY. |
|--|----------|--|----------------|
| <b>ANALOG MULTITESTER 5-FUNCTION 12 RANGE</b>  |          |  |                |
| TES-MT12                                       | 1        | Measures AC/DC voltage to 300 Volts. DC amperage to 250 mA. Decibels from -20 to 56dB. 1.5 and 9V Batteries Continuity. Fuse protection. Insulated test leads. Requires (2) AAA batteries. | 1              |
| <b>ANALOG MULTITESTER 7-FUNCTION 19 RANGE</b>  |          |  |                |
| TES-MT19                                       | 2        | Tests AC/DC voltage to check 10 Meg. Decibels from -8 to +62dB 1.5 and 9V batteries. Continuity with audible buzzer Fuse protection. Insulated test leads. Requires (2) AA batteries.      | 1              |
| <b>ANALOG BATTERY TESTER</b>                   |          |  |                |
| TES-MTBTL                                      | 3        | Tests AA; AAA; C; D; C; button cells; Ni-Cad; 3V lithium; 22.5V photo and lantern cells; 6V lantern; 12V, 15V photo cells. Insulated test leads. Exclusive button cell test compartment.   | 1              |
| <b>DIGITAL MULTITESTER 6-FUNCTION 20 RANGE</b> |          |  |                |
| TES-DT18                                       | 4        | DC current to 200 mA. 1.5 and 9V batteries. Continuity (audible buzzer) Fuse protection. Insulated test leads. Requires 9V battery.  | 1              |

# HARDWARE, TOOLS & TESTERS

## Circuit & Receptacle Testers

Testers  
TES Series

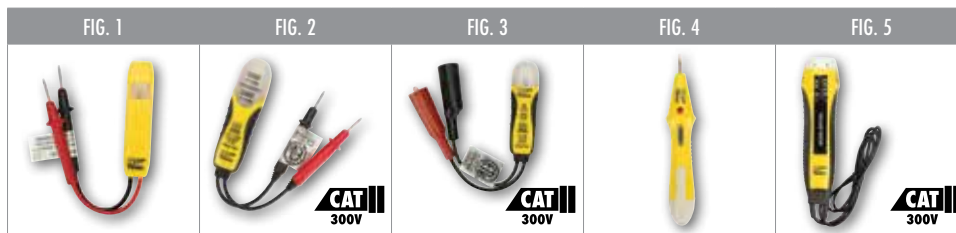


### SPECIFICATIONS

- cULus Listed.
- cETLus Listed (Intertek).

### FEATURES

- Finest heat-treated spring steel construction with precision-ground cutting edges.
- Double-Insulated cushioned handles.
- Strip solid or stranded copper or aluminum wires.



| CAT. NO.  | FIG. NO. | DESCRIPTION   | STD. CTN. QTY. |
|---|----------|---|----------------|
| <b>80-250 VAC TWIN PROBE VOLTAGE TESTER</b>     |          |   |                |
| TES-111   | 1        | Neon light indicates presence of AC voltage from 80-250 VAC. Double insulated housing and test leads. Pocket clip.  | 1              |
| <b>120 OR 240 VAC VOLTAGE TESTER</b>            |          |   |                |
| TES-2   | 2        | Dual neon light indicates presence of AC voltage of either 120 or 240 VAC. Double insulated housing and test leads. Pocket clip.  | 1              |
| <b>5-50 VAC/DC VOLTAGE TESTER</b>               |          |   |                |
| TES-LVT   | 3        | Neon light indicates presence of low voltage from 5 to 50 VAC or DC. Double insulated housing and fully insulated test leads with alligator clips. Pocket clip.   | 1              |
| <b>CONTINUITY/VOLTAGE SCREWDRIVER TESTER</b>    |          |   |                |
| TES-CT  | 4        | Neon light indicates presence of AC voltage from 12-300 VAC. Neon light also indicates circuit continuity. Double insulated housing. Handy screwdriver / voltage probe. Pocket clip. (2) LR-44 batteries included | 1              |
| <b>120-480 VAC/DC HEAVY-DUTY VOLTAGE TESTER</b> |          |   |                |
| TES-SOL   | 5        | Solenoid spring activated gauge measures voltage levels from 120 to 480 VAC. Double insulated housing and heavy gauge 48" test leads with housing storage. Lighted polarity indication.                           | 1              |

HARDWARE, TOOLS AND TESTERS

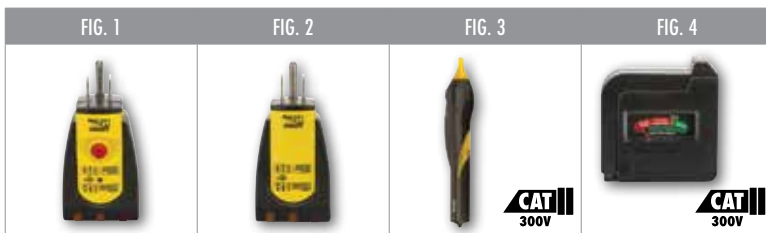
# HARDWARE, TOOLS & TESTERS

## Circuit & Receptacle Testers

Testers  
TES Series

### FEATURES

- Hand-held probe testers for measuring household voltage presence without contacting conductors, analyzing circuit wiring and GFCI integrity and quick battery testing.



| CAT. NO.  | FIG. NO. | DESCRIPTION  | STD. CTN. QTY. |
|---|----------|--|----------------|
| <b>GFCI ELECTRICAL JUNCTION BOX WIRING ANALYZER</b> |          |  |                |
| TES-131   | 1        | Plug in tester shows presence of correct wiring of electrical junction boxes. Also shows presence of up to 6 junction box wiring errors. Includes push-button GFCI integrity test. Neon bulb indication. | 1              |
| <b>ELECTRICAL JUNCTION BOX WIRING ANALYZER</b>      |          |  |                |
| TES-122   | 2        | Plug in tester shows presence of correct wiring of electrical junction boxes. Also shows presence of up to 6 junction box wiring errors. Neon bulb indication.   | 1              |
| <b>90-200 VAC NON-CONTACT VOLTAGE TESTER</b>        |          |  |                |
| TES-NC  | 3        | Detects household voltages from 90 to 200 VAC without touching conductors. (2) AAA batteries are included. AAA battery test feature included. Double insulated. Pocket clip.                             | 1              |
| <b>POCKET BATTERY TESTER</b>                        |          |  |                |
| TES-BT  | 4        | Checks strength of AA, AAA, C, D, N, 9V and 1.5V Button Cell Batteries. Flip up contact arm fits battery poles.  | 1              |

# HARDWARE, TOOLS & TESTERS

## Torque Wrenches, Screwdriver & Accessories

Tools  
TW Series

### FEATURES

#### Torque Wrenches

- Dual scale, calibrated dual direction.
- Positive lock with spring loaded pull down lock ring.
- Fast, accurate and easy to set.
- Easy-to-read laser marked scales.
- Most feature quick release buttons which provide good socket retention as well as easy socket removal.
- Accuracy: 3% CW, 4% CCW of indicated value, CW from 20% to 100% of full scale.
- Individually serialized with matching certificate of calibration traceable to N.I.S.T.

#### Torque Screwdrivers

- Positive locking pull down adjustment knob.
- Trilobular comfort grip.
- Universal 1/4" hex bit holder with strong rare earth magnet.
- Cam-over torque limiting clutch and slip resistant finish.
- Easy-to-read window scale and light weight.
- Automatic lock in CCW direction for disassembly.
- Accuracy: 6% of indicated value, CW from 20% to 100% of full scale. Individually serialized with matching certificate of calibration traceable to N.I.S.T.
- Meets or exceeds ASME B107.14-2004



| CAT. NO.   | FIG. NO. | DESCRIPTION  | STD. CTN. QTY. |
|------------|----------|--|----------------|
| TW20-150   | 1        | Torque Wrench. Click Type. 20-150 In Lbs. 3/8" Drive Dual Scale.             | 1              |
| TW100-750  | 2        | Torque Wrench. Click Type. 100-750 In Lbs. 3/8" Drive Dual Scale.            | 1              |
| TW5-40     | 3        | Torque Screwdriver. Micro Adjustable. 5-40 In Lbs. 1/4" Drive Single Scale.  | 1              |
| TWHB 3818  | 4        | Hex Bit 3/8" Socket. 1/8" Hex.   | 1              |
| TWHB 38316 | 5        | Hex Bit 3/8" Socket. 3/16" Hex.  | 1              |
| TWHB 3814  | 6        | Hex Bit 3/8" Socket. 1/4" Hex.   | 1              |
| TWHB 38516 | 7        | Hex Bit 3/8" Socket. 5/16" Hex.  | 1              |
| TWHB 3838  | 8        | Hex Bit 3/8" Socket. 3/8" Hex.   | 1              |
| TWHB 1212  | 9        | Hex Bit 1/2" Socket. 1/2" Hex.   | 1              |
| TWDA 3812  | 10       | Drive Adaptor. 3/8" Female To 1/2" Male (Needed For Sa16a, Sa18a And Sa20a). | 1              |
| TWBS 14    | 11       | 13 Piece 1/4" Drive Insert Bit Set.  | 1              |
| TWSB       | 12       | Holder For 1/4" Hex Screwdriver Bit. 3/8" Drive.                             | 1              |

# HARDWARE, TOOLS & TESTERS

## Silicon Bronze Bolts & Hex Nuts























Hardware

HB, HN Series

### FEATURES

- Corrosion resistance and physical strength combine to provide reliability.



| CAT. NO. | FIG. NO. | BOLT SIZE | HEX/ WRENCH SIZE | BOLT SHAPE  | LENGTH (IN) | STD. CTN. QTY. |
|----------|----------|-----------|------------------|---|-------------|----------------|
| HB403    | 1        | 1/4"      | 1/4"             |    | 3/4"        | 25             |
| HB404    | 1        | 1/4"      | 1/4"             |    | 1"          | 25             |
| HB405    | 1        | 1/4"      | 1/4"             |  | 1 1/4"      | 25             |
| HB406    | 1        | 1/4"      | 1/4"             |  | 1 1/2"      | 25             |
| HB505    | 1        | 5/16"     | 5/16"            |  | 1 1/4"      | 25             |
| HB507    | 1        | 5/16"     | 5/16"            |  | 2"          | 25             |
| HB604    | 1        | 3/8"      | 3/8"             |  | 1"          | 25             |
| HB605    | 1        | 3/8"      | 3/8"             |  | 1 1/4"      | 25             |
| HB606    | 1        | 3/8"      | 3/8"             |  | 1 1/2"      | 25             |
| HB607    | 1        | 3/8"      | 3/8"             |  | 2"          | 25             |
| HB804    | 1        | 1/2"      | 1/2"             |  | 1"          | 25             |
| HB805    | 1        | 1/2"      | 1/2"             |  | 1 1/4"      | 25             |
| HB806    | 1        | 1/2"      | 1/2"             |  | 1 1/2"      | 25             |
| HB807    | 1        | 1/2"      | 1/2"             |  | 2"          | 25             |
| HB808    | 1        | 1/2"      | 1/2"             |  | 2 1/4"      | 25             |
| HB809    | 1        | 1/2"      | 1/2"             |  | 2 1/2"      | 25             |
| HB811    | 1        | 1/2"      | 1/2"             |  | 3"          | 25             |
| HB812    | 1        | 1/2"      | 1/2"             |  | 3 1/2"      | 25             |
| HN-4     | 2        | 1/4"      | 1/4"             |  | –           | 25             |
| HN-5     | 2        | 5/16"     | 5/16"            |  | –           | 25             |
| HN-6     | 2        | 3/8"      | 3/8"             |  | –           | 25             |
| HN-8     | 2        | 1/2"      | 1/2"             |  | –           | 25             |

# HARDWARE, TOOLS & TESTERS









## Flat Washers & Split Lockwashers

Hardware  
SLW, FW Series

### FEATURES

- Corrosion resistance and physical strength combine to provide reliability.



| CAT. NO. | FIG. NO. | BOLT SIZE | HEX/ WRENCH SIZE | WASHER SHAPE  | LENGTH (IN) | STD. CTN. QTY. |
|----------|----------|-----------|------------------|---|-------------|----------------|
| SLW-4    | 1        | 1/4"      | –                |    | –           | 25             |
| SLW-5    | 1        | 5/16"     | –                |   | –           | 25             |
| SLW-6    | 1        | 3/8"      | –                |  | –           | 25             |
| SLW-8    | 1        | 1/2"      | –                |  | –           | 25             |
| FW-4     | 2        | 1/4"      | –                |  | –           | 25             |
| FW-5     | 2        | 5/16"     | –                |  | –           | 25             |
| FW-6     | 2        | 3/8"      | –                |  | –           | 25             |
| FW-8     | 2        | 1/2"      | –                |  | –           | 25             |



# HARDWARE, TOOLS & TESTERS

## Stainless Steel Bolts, Hex Nuts, Flat & Split Lockwashers






### Tools

SS,SSHN, SSBW, SSSLW, SSFW Series

#### FEATURES

- Corrosion resistance and physical strength combine to provide reliability.



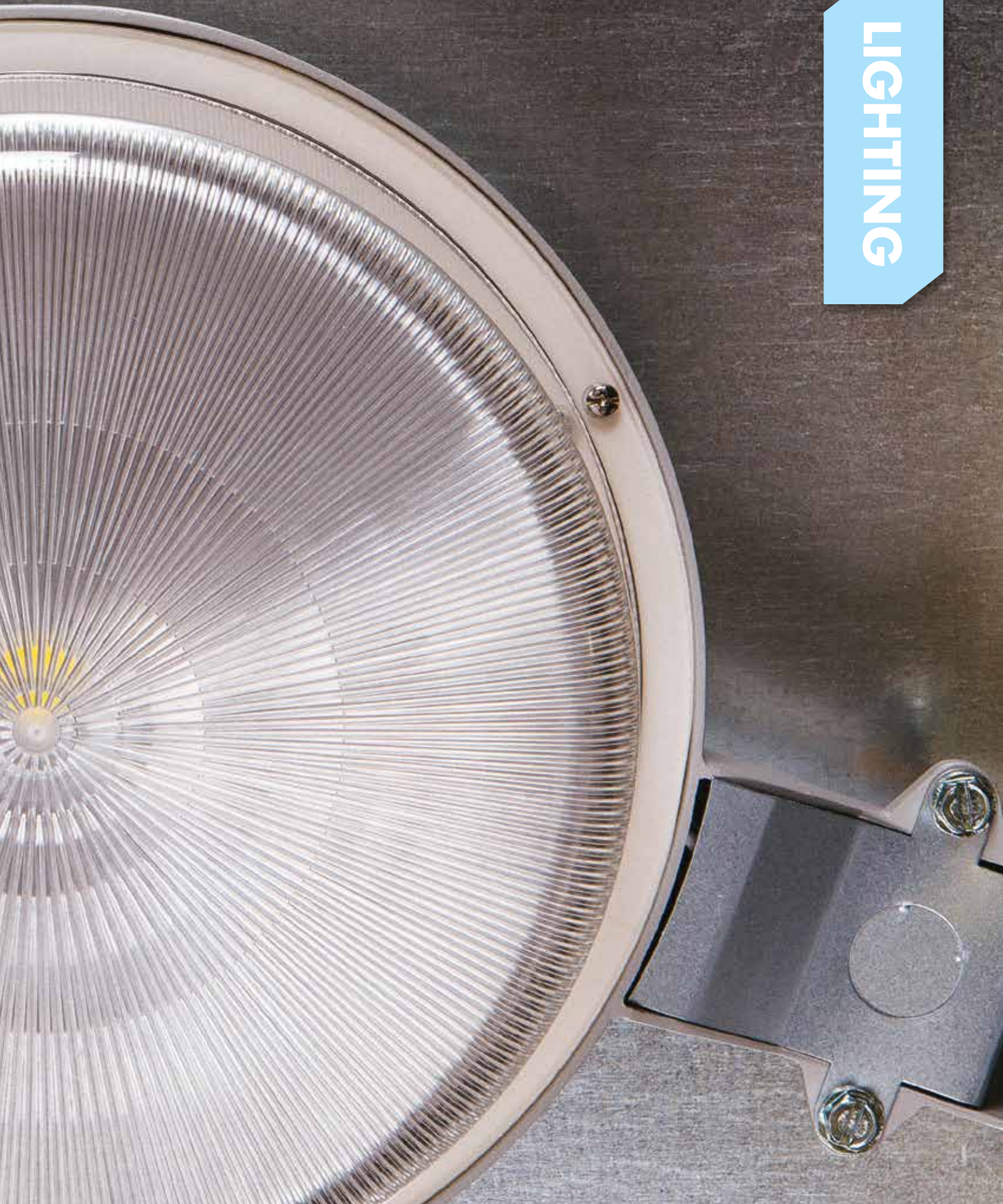
| CAT. NO. | FIG. NO. | BOLT SIZE | HEX/ WRENCH SIZE | BOLT/WASHER SHAPE   | LENGTH (IN) | STD. CTN. QTY. |
|----------|----------|-----------|------------------|---|-------------|----------------|
| SS66     | 1        | 3/8"      | 3/8"             |    | 2 1/4"      | 25             |
| SS34     | 1        | 1/2"      | 1/2"             |    | 1 3/4"      | 25             |
| SS37     | 1        | 1/2"      | 1/2"             |  | 2 1/2"      | 25             |
| SSHN-6   | 2        | 3/8"      | 3/8"             |  | –           | 25             |
| SSHN-8   | 2        | 1/2"      | 1/2"             |  | –           | 25             |
| SSBW-6   | 3        | 3/8"      | –                | –   | –           | 25             |
| SSSLW-8  | 3        | 1/2"      | –                | –   | –           | 25             |
| SSFW-6   | 4        | 3/8"      | –                | –   | –           | 25             |
| SSFW-8   | 4        | 1/2"      | –                | –   | –           | 25             |
| SSBW-8   | 5        | 1/2"      | –                | –   | –           | 25             |







# LIGHTING



# LED LIGHTING

## Small Wallpack LED with Photocontrol

### Lower Wattage & Higher Output

#### WP13LEDPC



### SPECIFICATIONS

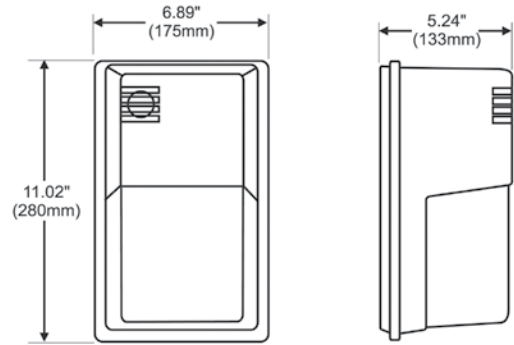
- cULus Listed for wet locations.
- Energy Savings Solutions.
- RoHS Compliant.

### WARRANTY

- 5-year Limited.
- See website for details. [www.nsiindustries.com](http://www.nsiindustries.com)

### FEATURES

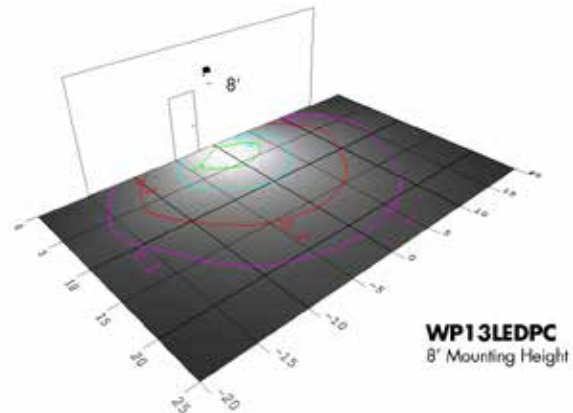
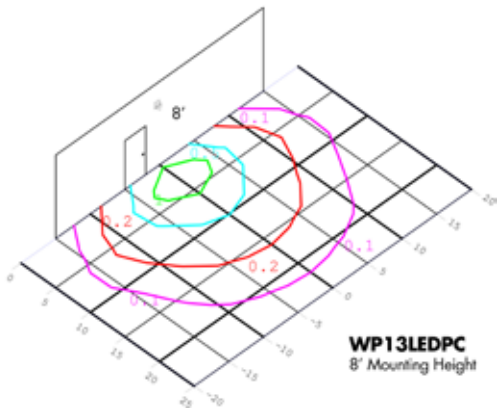
- Die cast aluminum back plate with polycarbonate housing.
- Architectural bronze finish.
- Quick mount installation.
- Color temperature - 4700k.
- High impact-resistant lens with built-in photocontrol.



| CAT. NO.  | SYSTEM WATTS | LUMEN OUTPUT | COLOR | LM/W | INPUT VOLTAGE | COLOR RENDERING INDEX (CRI) | STARTING TEMP. | EQUIVALENT   |
|-----------|--------------|--------------|-------|------|---------------|-----------------------------|----------------|--------------|
| WP13LEDPC | 12.6         | 615LM**      | 4700K | 49   | 120VAC        | 70+                         | -40 °C         | 50W - 70W MH |

\*\*DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

### PHOTOMETRIC REPORTS



Scan QR code for mobile access to LED spec sheets



# LED LIGHTING

## Small Wallpack LED Cutoff

Lower Wattage & Higher Output  
WP12LED



### SPECIFICATIONS

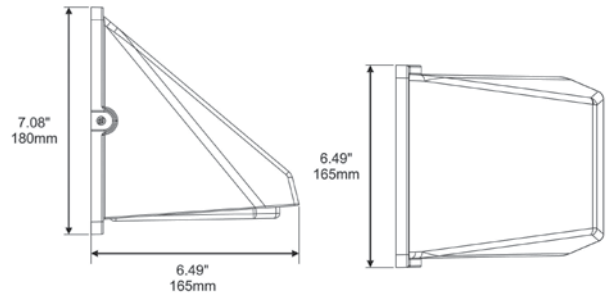
- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC (Design Lights Consortium).
- RoHS Compliant.

### WARRANTY

- 5-year Limited.
- See website for details. [www.nsiindustries.com](http://www.nsiindustries.com)

### FEATURES

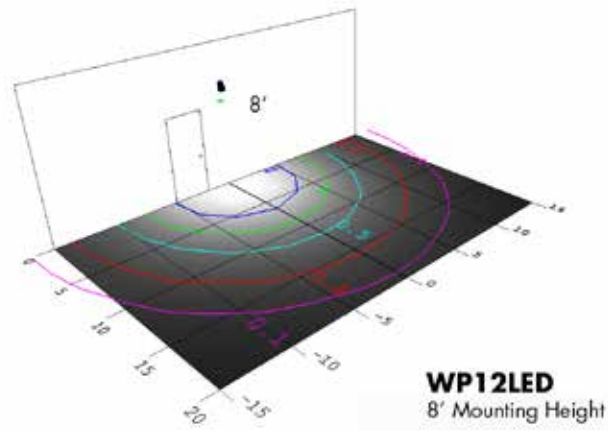
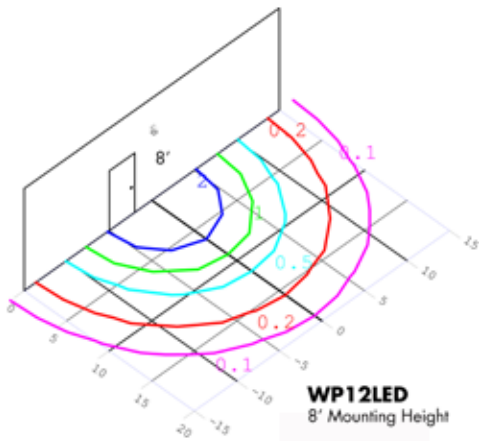
- Metal back plate with polycarbonate cover.
- Architectural bronze finish.
- Quick mount installation.
- Color temperature - 5000k.
- High impact polycarbonate/diffuser.
- DLC (Design Lights Consortium).



| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | LM/W | INPUT VOLTAGE | COLOR RENDERING INDEX (CRI) | STARTING TEMP. | EQUIVALENT   |
|----------|--------------|--------------|-------|------|---------------|-----------------------------|----------------|--------------|
| WP12LED  | 11.3         | 828lm**      | 5000K | 73   | 120-277VAC    | 70+                         | -40 °C         | 50W - 70W MH |

\*\*DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

### PHOTOMETRIC REPORTS



LIGHTING

Scan QR code for mobile access to LED spec sheets



# LED LIGHTING

## Medium Wallpack LED Wide Area

### Lower Wattage & Higher Output

#### WP36LED



#### SPECIFICATIONS

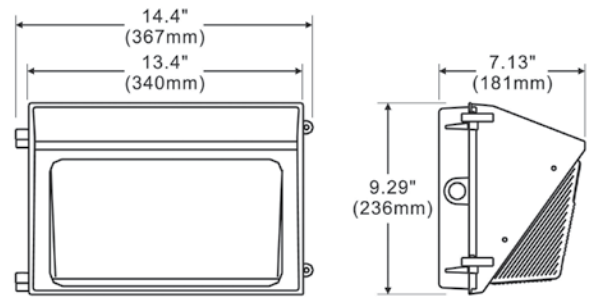
- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC Listed (Design Lights Consortium).
- RoHS Compliant.

#### WARRANTY

- 5-year Limited.
- See website for details. [www.nsiindustries.com](http://www.nsiindustries.com)

#### FEATURES

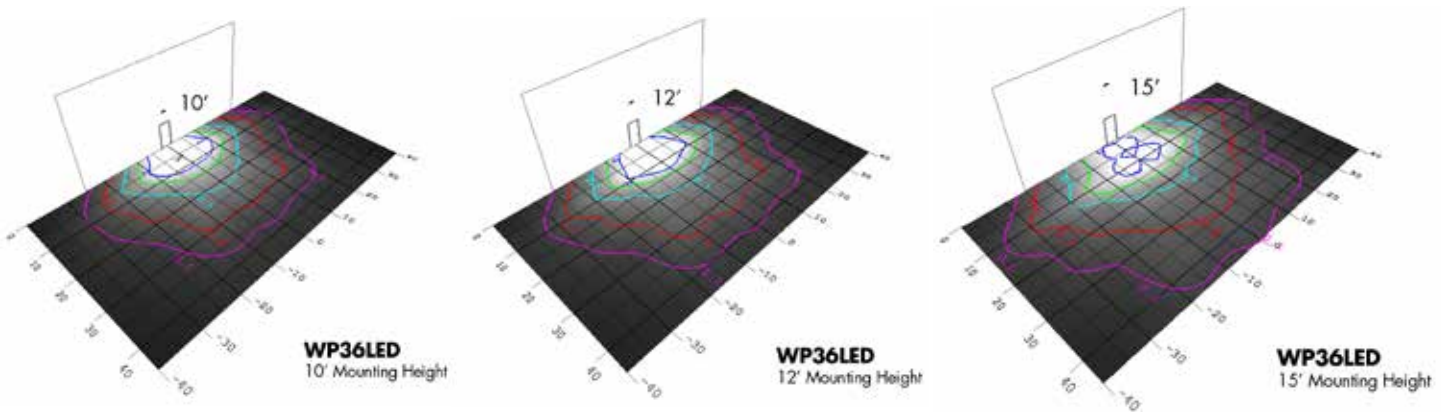
- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact-resistant borosilicate glass lens.
- New generation led module.
- DLC Listed (Design Lights Consortium).



| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | LM/W  | INPUT VOLTAGE | COLOR RENDERING INDEX (CRI) | STARTING TEMP. | EQUIVALENT     |
|----------|--------------|--------------|-------|-------|---------------|-----------------------------|----------------|----------------|
| WP36LED  | 40           | 4500LM**     | 5000K | 112.5 | 120-277VAC    | 70+                         | -40 °C         | 150W - 200W MH |

\*\*DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

#### PHOTOMETRIC REPORTS



Scan QR code for mobile access to LED spec sheets



# LED LIGHTING

## Medium Wallpack LED Cutoff

### Lower Wattage & Higher Output

#### WP38LED



#### SPECIFICATIONS

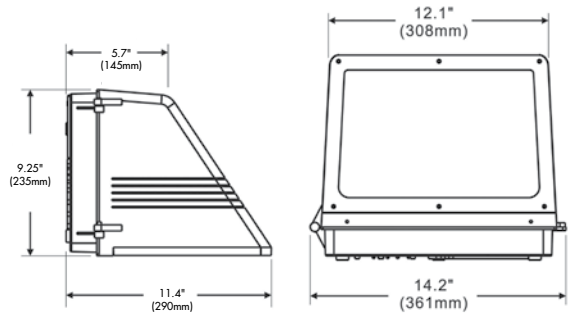
- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC (Design Lights Consortium).
- RoHS Compliant.

#### WARRANTY

- 5-year Limited.
- See website for details. [www.nsiindustries.com](http://www.nsiindustries.com)

#### FEATURES

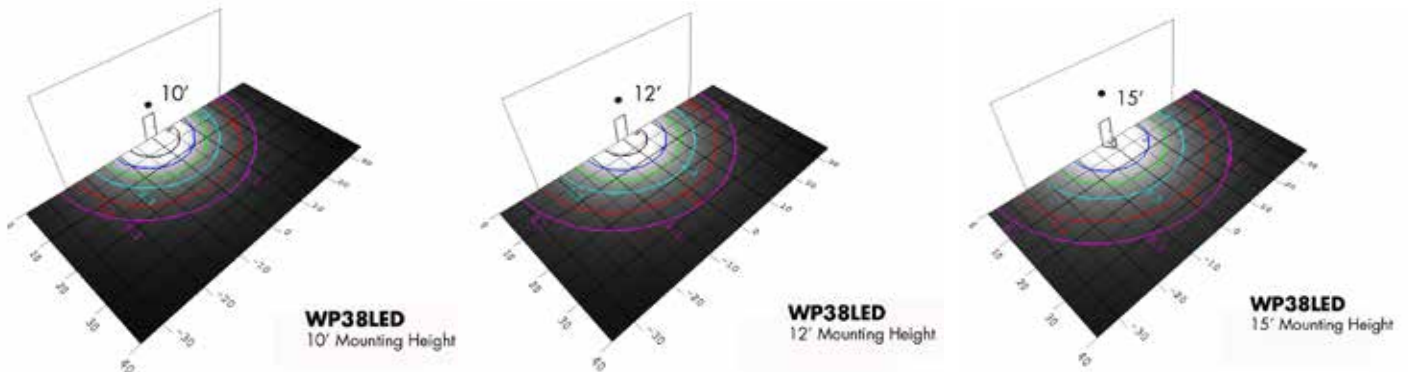
- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact-resistant tempered glass lens.
- IP65 Rated enclosure & IC protection.
- DLC Listed (Design Lights Consortium).



| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | LM/W | INPUT VOLTAGE | COLOR RENDERING INDEX (CRI) | STARTING TEMP. | EQUIVALENT |
|----------|--------------|--------------|-------|------|---------------|-----------------------------|----------------|------------|
| WP38LED  | 39           | 2857lm**     | 5000K | 73   | 120-277VAC    | 70+                         | -30 °C         | 150W MH    |

\*\*DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

#### PHOTOMETRIC REPORTS



LIGHTING

Scan QR code for mobile access to LED spec sheets



# LED LIGHTING

## Large Wallpack LED Wide Area

### Lower Wattage & Higher Output

#### WP68LED



#### SPECIFICATIONS

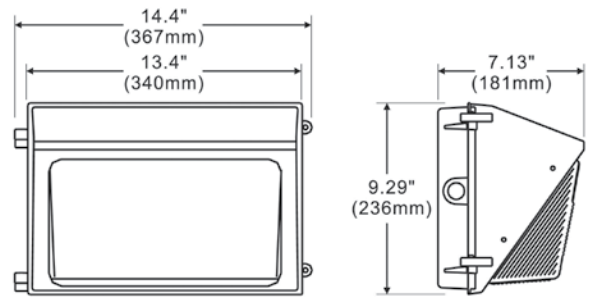
- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC Listed (Design Lights Consortium).
- RoHS Compliant.

#### WARRANTY

- 5-year Limited.
- See website for details. [www.nsiindustries.com](http://www.nsiindustries.com)

#### FEATURES

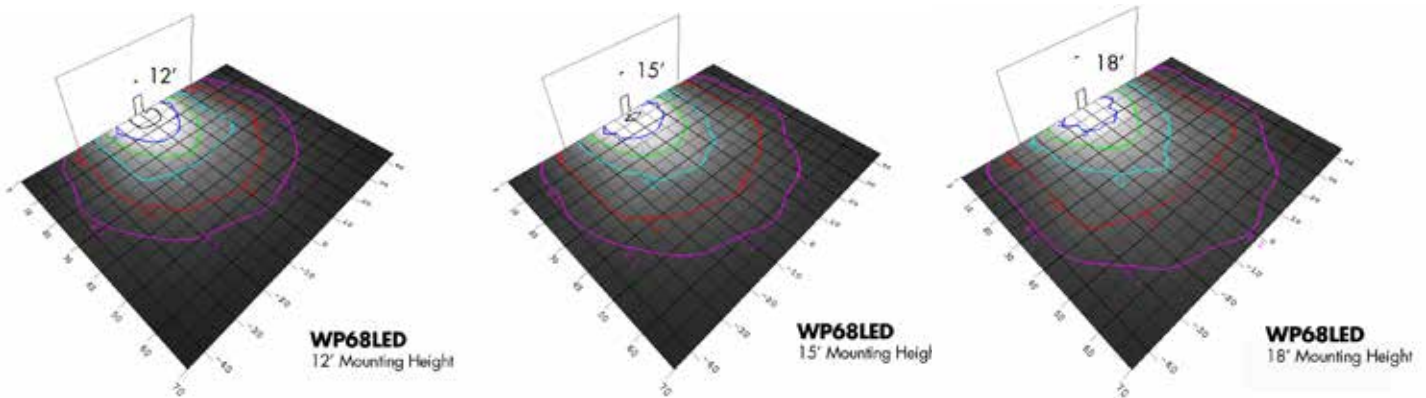
- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact-resistant borosilicate glass lens.
- IC protection.
- New generation LED module.
- DLC Listed (Design Lights Consortium).



| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | LM/W | INPUT VOLTAGE | COLOR RENDERING INDEX (CRI) | STARTING TEMP. | EQUIVALENT     |
|----------|--------------|--------------|-------|------|---------------|-----------------------------|----------------|----------------|
| WP68LED  | 75           | 9000LM**     | 5000K | 120  | 120-277VAC    | 70+                         | -40 °C         | 250W - 400W MH |

\*\*DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

#### PHOTOMETRIC REPORTS



Scan QR code for mobile access to LED spec sheets

# LED LIGHTING

## Large Wallpack LED Cutoff

### Lower Wattage & Higher Output

#### WP77LED



#### FEATURES

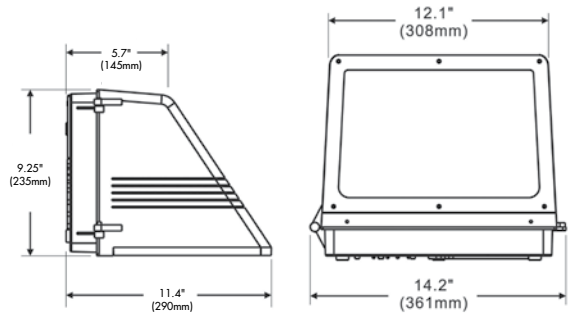
- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 4700k.
- Heat & impact-resistant tempered glass lens.
- IP65 Rated enclosure & IC protection.
- DLC Listed (Design Lights Consortium).

#### SPECIFICATIONS

- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC (Design Lights Consortium).
- RoHS Compliant.

#### WARRANTY

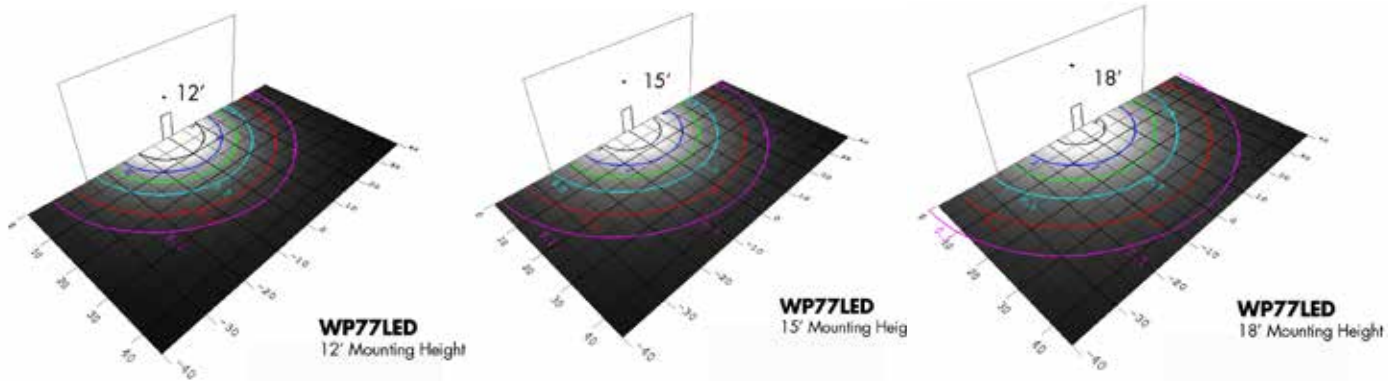
- 5-year Limited.
- See website for details. [www.nsiindustries.com](http://www.nsiindustries.com)



| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | LM/W | INPUT VOLTAGE | COLOR RENDERING INDEX (CRI) | STARTING TEMP. | EQUIVALENT |
|----------|--------------|--------------|-------|------|---------------|-----------------------------|----------------|------------|
| WP77LED  | 77           | 5449lm**     | 4700K | 71   | 120-277VAC    | 70+                         | -30 °C         | 250W MH    |

\*\*DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

#### PHOTOMETRIC REPORTS



LIGHTING

Scan QR code for mobile access to LED spec sheets



# LED LIGHTING

## Medium Flood LED

Lower Wattage & Higher Output  
FL20LED



### SPECIFICATIONS

- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC (Design Lights Consortium).
- RoHS Compliant.

### WARRANTY

- 5-year Limited.
- See website for details. [www.nsiindustries.com](http://www.nsiindustries.com)

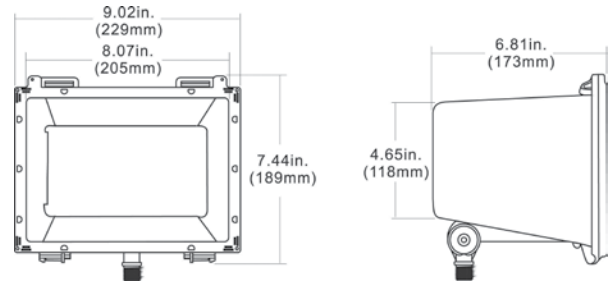
### FEATURES

- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 4700K.
- IC current controlled LED circuits.
- DLC (Design Lights Consortium).

### ACCESSORY

#### GROUND STAKE (GST)

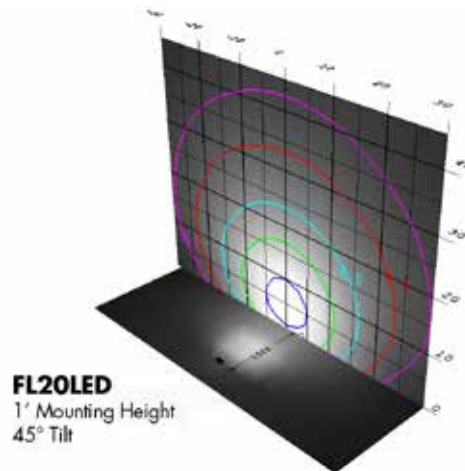
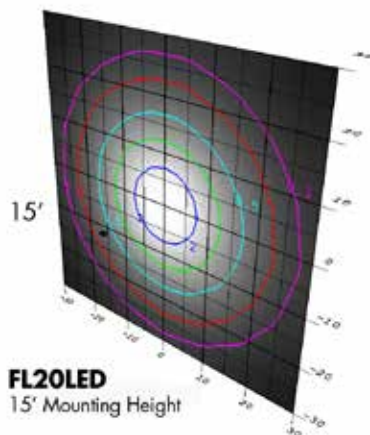
- cULus Listed for wet locations and does **NOT** include the 5-year Limited Warranty.
- Adjustable stabilizer and built in wiring compartment.
- Durable molded plastic with die cast fitting for 1/2" NPT threads.
- Two 1/2" coin plugs for enclosed wiring.
- Two 1/2" coin plugs outside for surface and through-wiring.



| CAT. NO. | SYSTEM WATTS                                       | LUMEN OUTPUT | COLOR | LM/W           | INPUT VOLTAGE | COLOR RENDERING INDEX (CRI) | STARTING TEMP. | EQUIVALENT    |
|----------|--|--------------|-------|----------------|---------------|-----------------------------|----------------|---------------|
| FL20LED  | 22   | 1686LM**     | 4700K | 77             | 120-277VAC    | 70+                         | -30 °C         | 70W - 100W MH |
| GST      | DESCRIPTION: Non-metallic Heavy Duty Ground Stake. |              |       | LENGTH: 19 in. | WIDTH: 9 in.  | DEPTH: 3.5 in.              |                |               |

\*\*DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

### PHOTOMETRIC REPORTS



Scan QR code for mobile access to LED spec sheets

# LED LIGHTING

## Large Flood LED

Lower Wattage & Higher Output  
FL40LED



### SPECIFICATIONS

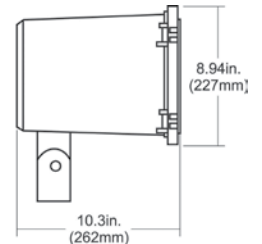
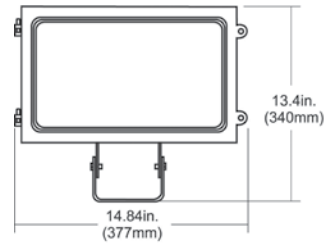
- cULus Listed for wet locations.
- Energy Savings Solutions.
- DLC (Design Lights Consortium).
- RoHS Compliant.

### WARRANTY

- 5-year Limited.
- See website for details. [www.nsiindustries.com](http://www.nsiindustries.com)

### FEATURES

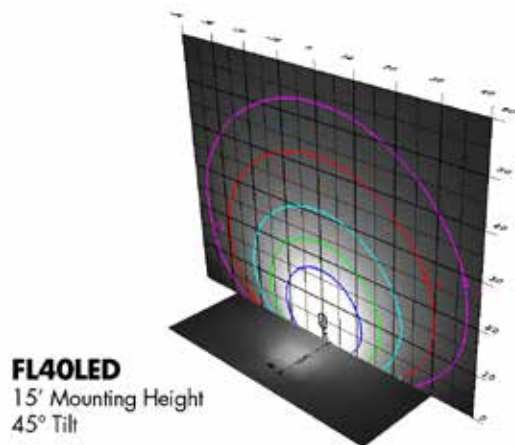
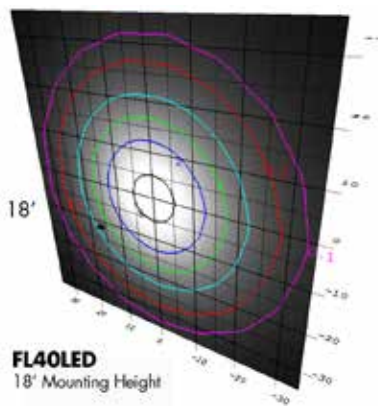
- Die cast aluminum housing.
- Architectural bronze finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 4700K.
- IC Current Controlled LED Circuits.
- DLC (Design Lights Consortium).



| CAT. NO. | FIG. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | LM/W | INPUT VOLTAGE | COLOR RENDERING INDEX (CRI) | STARTING TEMP. | EQUIVALENT   |
|----------|----------|--------------|--------------|-------|------|---------------|-----------------------------|----------------|--------------|
| FL40LED  | 1        | 43.5         | 3458lm**     | 4700K | 79   | 120-277VAC    | 70+                         | -30 °C         | 150W-200W MH |

\*\*DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

## PHOTOMETRIC REPORTS



LIGHTING

Scan QR code for mobile access to LED spec sheets



# LED LIGHTING

## Medium Vaportite Ceiling Mount LED

Lower Wattage & Higher Output

VTC13LED



### SPECIFICATIONS

- cULus Listed for wet locations.
- Energy Savings Solutions.
- RoHS Compliant.

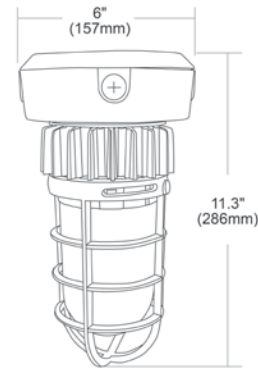
### WARRANTY

- 5-year Limited.
- See website for details. [www.nsiindustries.com](http://www.nsiindustries.com)

**For Incandescent models see page 316.**

### FEATURES

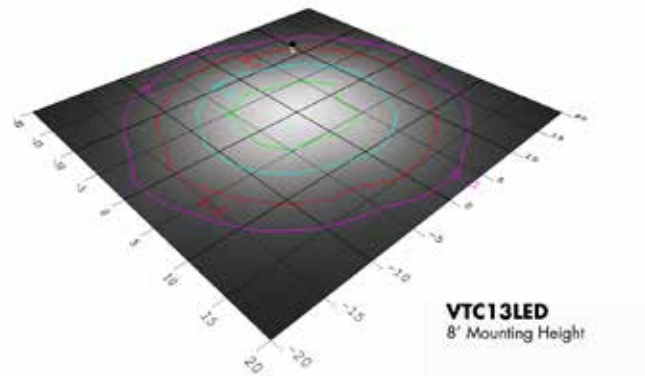
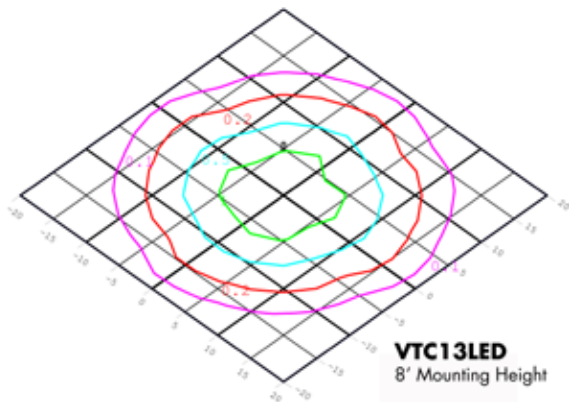
- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Low starting temperature -30 °C.
- Color temperature - 5000k.
- 1/2" Conduit.
- Plugs on all 4 sides.



| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | LM/W | INPUT VOLTAGE | COLOR RENDERING INDEX (CRI) | STARTING TEMP. | EQUIVALENT   |
|----------|--------------|--------------|-------|------|---------------|-----------------------------|----------------|--------------|
| VTC13LED | 12.6         | 636LM**      | 5000K | 50   | 120-277VAC    | 70+                         | -40 °C         | 50W - 70W MH |

\*\*DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

## PHOTOMETRIC REPORTS



Scan QR code for mobile access to LED spec sheets



# LED LIGHTING

## Medium Vaportite Wall Mount LED

Lower Wattage & Higher Output  
VTW13LED



### SPECIFICATIONS

- cULus Listed for wet locations.
- Energy Savings Solutions.
- RoHS Compliant.

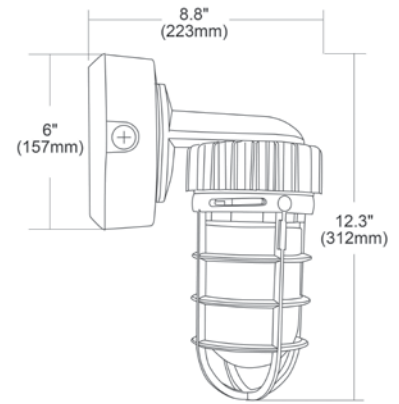
### WARRANTY

- 5-year Limited.
- See website for details. [www.nsiindustries.com](http://www.nsiindustries.com)

**For Incandescent models see page 316.**

### FEATURES

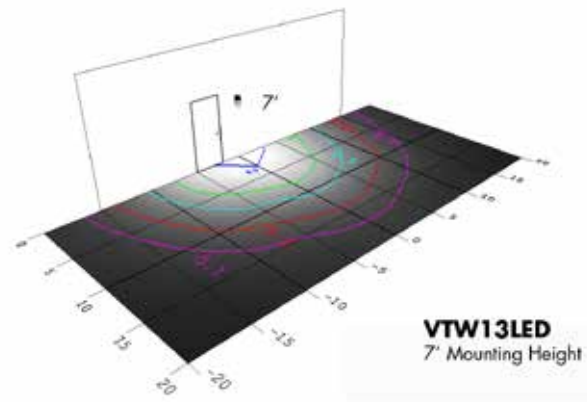
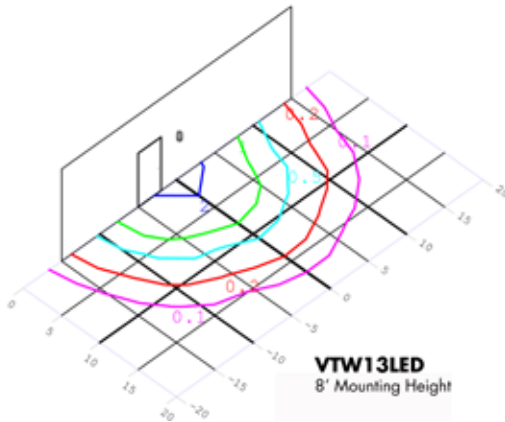
- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 5000k.
- Heat & impact resistant tempered glass lens.
- IP65 Rated & IC protection.



| CAT. NO. | SYSTEM WATTS | LUMEN OUTPUT | COLOR | LM/W | INPUT VOLTAGE | COLOR RENDERING INDEX (CRI) | STARTING TEMP. | EQUIVALENT |
|----------|--------------|--------------|-------|------|---------------|-----------------------------|----------------|------------|
| VTW13LED | 12.6         | 636lm**      | 5000K | 50   | 120-277VAC    | 70+                         | -40 °C         | 50W-70W MH |

\*\*DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

### PHOTOMETRIC REPORTS



LIGHTING

Scan QR code for mobile access to LED spec sheets





# LED LIGHTING

## Dusk-to-Dawn Security Light LED

### Lower Wattage & Higher Output

#### DTD35LED



#### SPECIFICATIONS

- cULus Listed for wet locations.
- Energy Savings Solutions.
- RoHS Compliant.

#### WARRANTY

- 5-year Limited.
- See website for details. [www.nsiindustries.com](http://www.nsiindustries.com)

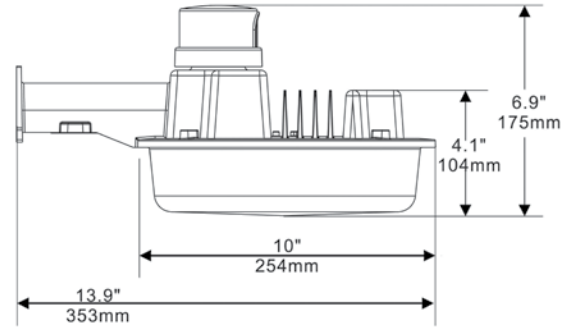
**For Incandescent models see page 315.**

#### FEATURES

- Die cast aluminum housing.
- Silver finish.
- UV stabilized powder coated finish.
- Uniform light distribution.
- Color temperature - 5000k.
- Impact-resistant lens.
- Photocontrol included.

#### ACCESSORY

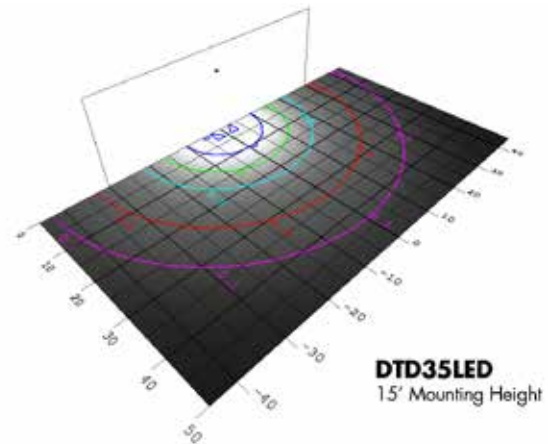
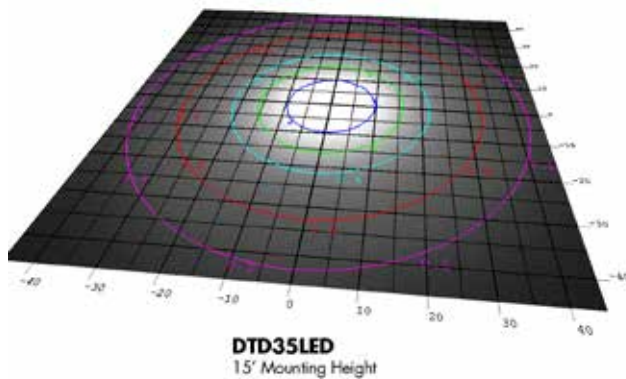
- DTDARM.



| CAT. NO. | SYSTEM WATTS            | LUMEN OUTPUT | COLOR | LM/W | INPUT VOLTAGE | COLOR RENDERING INDEX (CRI) | STARTING TEMP. | EQUIVALENT     |
|----------|-------------------------|--------------|-------|------|---------------|-----------------------------|----------------|----------------|
| DTD35LED | 33.2                    | 2725LM**     | 5000K | 82   | 120VAC        | 70+                         | -20 °C         | 100W - 150W MH |
| DTDARM   | Optional and available. |              |       |      |               |                             |                |                |

\*\*DISCLAIMER: this test report was produced in accordance with IES LM-79 photometric testing protocol for luminaires, using a single representative test fixture.

## PHOTOMETRIC REPORTS



Scan QR code for mobile access to LED spec sheets

# HID & FLUORESCENT LIGHTING

## Mini Wallpacks & Entry Cylinder

WP, EL Series

### SPECIFICATIONS

- cULus Listed for wet locations.
- UL Listed for wet locations.
- Energy Saving Fluorescent.

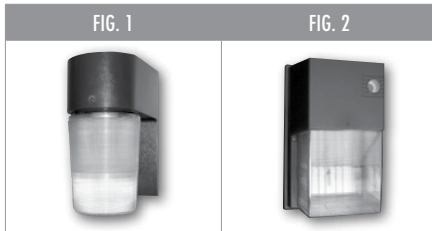
### FEATURES

#### Mini Wallpacks (WP)

- For small area fixtures: Doorways, loading docks, commercial, institutional, industrial areas.
- Mini wallpacks are available with a one-piece polycarbonate housing and lens (1) or with a die-cast housing and borosilicate glass lens (2).
- Excellent for security and perimeter lighting and commercial and industrial applications.
- Polycarbonate version available with built-in photocontrol.
- Die cast version can be field installed with photocontrol.
- Lamp included.

#### Entry Cylinder (EL)

- For loading docks, security lighting and entrance doorway lighting.
- Features impact and corrosion resistant polycarbonate housing and polycarbonate lens. The lens is engineered to diffuse light to properly light entryways without glare.
- Lens locks in place with an allen set screw to resist tampering.
- 26W 4100K fluorescent lamp.
- Lamp included.



| CAT. NO.  | FIG. NO. | DESCRIPTION                           | VOLTAGE    | HEIGHT (L) (IN.) | WIDTH (W) (IN.) | DEPTH (D) (IN.) | BALLAST    | LAMP | BASE   |
|-----------|----------|---------------------------------------|------------|------------------|-----------------|-----------------|------------|------|--------|
| EL26FL*   | 1        | Entry Cylinder 26 Watt Fluorescent    | 120 VAC    | 9                | 5               | 7               | Electronic | PLC  | —      |
| WP26FLPC* | 2        | 26 Watt Fluorescent with Photocontrol | 120/277VAC | 11               | 6.9             | 5.2             | Electronic | PLC  | —      |
| WP70SPC   | 2        | 70 Watt Sodium With Photocontrol      | 120VAC     | 11               | 6.9             | 5.2             | R-NPF      | ED17 | Medium |

# HID LIGHTING

## Medium Wallpacks

WPM, WPLD Series



### SPECIFICATIONS

- cULus Listed for wet locations.
- UL Listed for wet locations.
- \*e pulse Start.

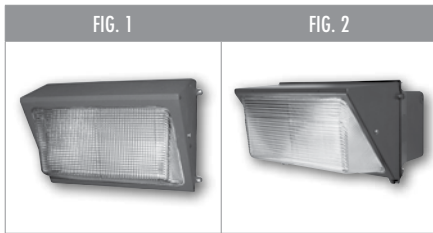
### FEATURES

#### Medium Wallpacks (WPM)

- For warehouse, perimeter lighting, security, and retail.
- Die cast housing and lens frame with powdercoat finish and a porcelain medium base socket assembly.
- Front frame is hinged with one piece stippled aluminum reflector.
- Heat and shock resistant borosilicate glass lens, silicone gasketing.
- Excellent for security and perimeter lighting and commercial and industrial applications.
- Lamp included.

#### Medium Wallpacks (WPLD)

- For warehouse, perimeter, security and retail lighting.
- Large Deep wallpacks have a die cast housing with powdercoat finish and a porcelain 4KV mogul socket assembly.
- Specular aluminum reflector. Heat and shock resistant borosilicate glass lens, silicone gasketing.
- Excellent for security and perimeter lighting, tunnels and commercial and industrial applications.
- Large Deep wallpacks have an extra deep housing for better cooling and longer lasting.
- Lamp included.



| CAT. NO.     | FIG. NO. | DESCRIPTION                       | VOLTAGE            | BALLAST     | HEIGHT (L) (IN.) | WIDTH (W) (IN.) | DEPTH (D) (IN.) | LAMP | BASE   |
|--------------|----------|-----------------------------------|--------------------|-------------|------------------|-----------------|-----------------|------|--------|
| WPM100MHQ    | 1        | 100 Watt Metal Halide             | 120/208/240/277VAC | QUAD HX-HPF | 9                | 14.25           | 7.1             | ED17 | Medium |
| WPM150MHQP*  | 1        | 150 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE  | 9                | 14.25           | 7.1             | ED17 | Medium |
| WPLD250MHQP* | 2        | 250 Watt Metal Halide Pulse Start | 120/208/240/277VAC | QUAD PULSE  | 9                | 18.2            | 12.8            | ED28 | Mogul  |



\* *energy saving*  
**FLUORESCENT!**

# FLUORESCENT FLOODLIGHT

FLF Series



## SPECIFICATIONS

### FLUORESCENT FLOODLIGHT (FLF)

- cULus Listed for wet locations.
- UL Listed for wet locations.
- \*Energy Saving Fluorescent.

## FEATURES

- For landscape, facade, security, pathway and sign lighting.
- NSI's non-metallic Fluorescent Floodlight features twin T3 Watt fluorescent lamps, fully silicone gasketed lens and frame.
- Mounts with fully adjustable 1/2" NPT threaded knuckle.
- Lamp included.

| CAT. NO. | DESCRIPTION                            | DIAMETER (BACKPLATE) (IN.) | VOLTAGE | BALLAST    | HEIGHT (H) (IN.) | WIDTH (W) (IN.) | DEPTH (D) (IN.) | LAMP |
|----------|--|----------------------------|---------|------------|------------------|-----------------|-----------------|------|
| FLF26NM* | Fluorescent Flood 26 Watt Non-metallic | —                          | 120VAC  | ELECTRONIC | 4.75             | 9.25            | 4.6             | PLC  |

# QUARTZ LIGHTING

## Quartz & Incandescent Floodlight with Lamp

Floodlight

QF, PHNM Series



## SPECIFICATIONS

### Quartz Floodlight (QF)

- cULus Listed for wet locations.
- UL Listed for wet locations.

### Incandescent Floodlight (PHNM)

- cCSAus.

**For Ground Mounting see page 301 or model GST Non-Metallic Ground Stake.**

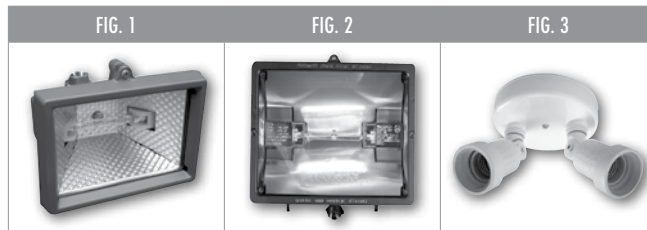
## FEATURES

### Quartz Floodlight (QF)

- For accent, security, landscape, facades, signs and general purpose floodlighting.
- Solid one piece die cast aluminum construction, high impact resistant tempered glass lens, aluminum reflector and corrosion resistant hardware.
- Silicone rubber gasketing is included to prevent leakage from outside.
- 150 Watt is perfect for lighting small outdoor areas; the others are excellent for general purpose floodlighting.
- Mounts with 1/2" NPT knuckle.
- Lamps included.

### Incandescent Floodlight (PHNM)

- Incandescent: General purpose floodlighting.
- Quartz: Accent, security, landscape, facades, signs and general purpose floodlighting.
- Oversized backplate designed specially to cover gaps where cutouts for boxes are too big.
- Extra deep backplate also fits over a flush-mounted pancake box to provide a good fit and appearance.
- Both par holders swivel side to side and up and down and can be securely locked.



| CAT. NO.   | FIG. NO. | DESCRIPTION                                   | VOLTAGE | HEIGHT (L) (IN.) | WIDTH (W) (IN.) | EXTENSION |
|------------|----------|---|---------|------------------|-----------------|-----------|
| QF150B     | 1        | 150 Watt Quartz Flood Bronze With Lamp        | 120VAC  | 3.5              | 3.3             | 3.9       |
| QF300-500B | 1        | Quartz Flood Bronze With 300 & 500 Watt Lamps | 120VAC  | 5.75             | 5.75            | 4.6       |
| PHNM300    | 2        | 300 Watt Nonmetallic Twin Par Holder          | —       | —                | —               | —         |

LIGHTING

## HID LIGHTING

### High Pressure Sodium Ballast Kits with Lamps

#### Ballast Kits

#### BKS Series



#### FEATURES

- Kit includes: Cap, ignitor, brackets and Medium or Mogul lamp.

| CAT. NO.     | DESCRIPTION       | VOLTAGE          | LAMP   |
|--------------|-------------------|------------------|--------|
| BKS70QL-MED  | 70 Watt HPS Quad  | 120/208/240/277V | Medium |
| BKS100QL-MED | 100 Watt HPS Quad | 120/208/240/277V | Medium |
| BKS150QL-MED | 150 Watt HPS Quad | 120/208/240/277V | Medium |
| BKS400QL-M   | 400 Watt HPS Quad | 120/208/240/277V | Mogul  |

## HID LIGHTING

### High Pressure Sodium Ballast Kits Only

#### Ballast Kits

#### BKS Series



#### FEATURES

- Kit includes: Cap, ignitor and brackets.

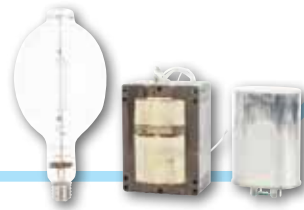
| CAT. NO. | DESCRIPTION                                    | VOLTAGE          |
|----------|--|------------------|
| BKS70R   | 70 Watt HPS Reactor – Cap, Ignitor & Brackets  | 120V             |
| BKS100R  | 100 Watt HPS Reactor – Cap, Ignitor & Brackets | 120V             |
| BKS50Q   | 50 Watt HPS Quad – Cap, Ignitor & Brackets     | 120/208/240/277V |
| BKS70Q   | 70 Watt HPS Quad – Cap, Ignitor & Brackets     | 120/208/240/277V |
| BKS100Q  | 100 Watt HPS Quad – Cap, Ignitor & Brackets    | 120/208/240/277V |
| BKS150Q  | 150 Watt HPS Quad – Cap, Ignitor & Brackets    | 120/208/240/277V |
| BKS250Q  | 250 Watt HPS Quad – Cap, Ignitor & Brackets    | 120/208/240/277V |
| BKS400Q  | 400 Watt HPS Quad – Cap, Ignitor & Brackets    | 120/208/240/277V |
| BKS1000Q | 1000 Watt HPS Quad – Cap, Ignitor & Brackets   | 120/208/240/277V |

# HID LIGHTING

## Metal Halide Ballast Kits with Lamp

### Ballast Kits

#### BKM Series



#### FEATURES

- Kit includes: Cap, ignitor, brackets and Medium or Mogul lamp.

| CAT. NO.     | DESCRIPTION                      | VOLTAGE          | LAMP   |
|--------------|----------------------------------|------------------|--------|
| BKM100QL-MED | 100 Watt Metal Halide Quad       | 120/208/240/277V | Medium |
| BKM320QPL-M* | 320 Watt Metal Halide Pulse Quad | 120/208/240/277V | Mogul  |
| BKM1000QL-M  | 1000 Watt Metal Halide           | 120/208/240/277V | Mogul  |

# HID LIGHTING

## Metal Halide Ballast Kits Only

### Ballast Kits

#### BKM Series



#### FEATURES

- Kit includes: Cap, ignitor, brackets and Medium or Mogul lamp.

| CAT. NO.   | FIG. NO. | DESCRIPTION  | VOLTAGE          |
|------------|----------|--|------------------|
| BKM50Q     | 1        | 50 Watt Metal Halide Quad – Cap, Ignitor & Brackets        | 120/208/240/277V |
| BKM70Q     | 1        | 70 Watt Metal Halide Quad – Cap, Ignitor & Brackets        | 120/208/240/277V |
| BKM100120  | 1        | 100 Watt Metal Halide – Cap, Ignitor & Brackets            | 120V             |
| BKM100Q    | 1        | 100 Watt Metal Halide Quad – Cap, Ignitor & Brackets       | 120/208/240/277V |
| BKM400480  | 1        | 400 Watt Metal Halide – Cap & Brackets                     | 480V             |
| BKM1000Q   | 1        | 1000 Watt Metal Halide Quad – Cap & Brackets               | 120/208/240/277V |
| BKM1000480 | 1        | 1000 Watt Metal Halide – Cap & Brackets                    | 480V             |
| BKM150QP*  | 1        | 150 Watt Metal Halide Pulse Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| BKM250QP*  | 1        | 250 Watt Metal Halide Pulse Quad – Cap, Ignitor & Brackets | 120/208/240/277V |
| BKM320QP*  | 1        | 320 Watt Metal Halide Pulse Quad – Cap, Ignitor & Brackets | 120/208/240/277V |

# EMERGENCY LIGHTING

## Twin Head & Fixed Optics Emergency Light

Emergency Lights  
EMTW, EMFW Series



### SPECIFICATIONS

- Listed for damp locations.
- **Operating Temperature:**  
EMTW-LED: 32 °F - 122 °F (0 °C - 50 °C)  
EMFW: 68 °F - 122 °F (20 °C - 50 °C)
- Meets UL924.

### FEATURES


#### Twin Head Emergency Light (EMTW)

- For commercial, industrial, institutional and retail lighting.
- Unit gives a low profile appearance with automatic LVD (low voltage disconnect) and universal transformer for 120/277VAC.
- Long lasting, efficient ultra-bright 1 watt white LED lamp head.
- Universal mounting plate with quick connect for labor saving installation.
- Injection-molded V-0 flame retardant high-impact thermoplastic housing and a 3.6V maintenance free rechargeable NiCd battery.
- Environmentally-coated solid state charger.

#### Fixed Optics Emergency Light (EMFW)

- For commercial, industrial, institutional and retail lighting.
- Fully automatic operation with automatic LVD (low voltage disconnect) and universal transformer for 120/277VAC.
- Injection-molded V-0 flame-retardant high-impact thermoplastic housing and a 6V premium grade, sealed lead acid, maintenance free battery with 90 minute operation.
- Compact, low profile design in pleasing neutral finish with environmentally-coated solid state charger.



| CAT. NO.   | FIG. NO. | BATTERY  | HOUSING | LAMP         | VOLTAGE    |
|--|----------|----------|---------|--------------|------------|
| EMTW-LED   | 1        | 3.6 Volt | White   | 2 x 1 Watt   | 120/277VAC |
| EMFW  | 2        | 6 Volt   | White   | 2 x 5.4 Watt | 120/277VAC |





# EMERGENCY LIGHTING

## LED Exit & Combo LED Exit Light

EXL, EEL Series

### SPECIFICATIONS

- UL Listed for damp locations.
- **Operating Temperature:**  
EXL: 32 °F - 131 °F (0 °C - 55 °C)  
EEL: 32 °F - 104 °F (0 °C - 40 °C)
- Meets UL924.

### FEATURES

#### LED Exit Lights (EXL)

- For commercial, industrial, institutional and retail lighting.
- Fully automatic operation at 120 or 277VAC.
- Long lasting, efficient ultra-bright Red or Green LED lamps.
- LED exit lights have a universal mounting canopy for side or top installation.
- Long Life 4.8V maintenance free rechargeable NiCd battery for back-up style units.
- Injection-molded V-0 flame-retardant high-impact thermoplastic housing with a low profile design and excellent energy savings.

#### Combo LED Exit Lights (EEL)

- For commercial, industrial, institutional and retail lighting.
- Long lasting, efficient ultra-bright Red or Green LED lamps.
- Automatic LVD (low voltage disconnect) and universal transformer for 120 or 277VAC.
- Injection-molded V-0 flame-retardant high-impact thermoplastic housing and a 9.6V long life, maintenance-free, rechargeable NiCd battery with 90.
- Two fully adjustable glare free lighting heads with long lasting, efficient ultra-bright 1 watt white LED lamp heads.
- Remote model allows connection of an additional head with a maximum current draw of 1 watt.
- Self-diagnostic and remote capable options are available for this fixture, call for special quote.
- Universal mounting canopy for ceiling installation.

Figure 1

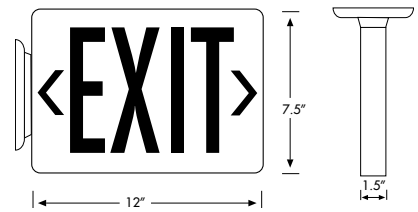
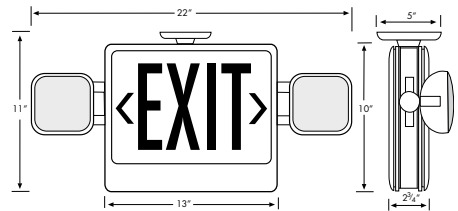


Figure 2



| CAT. NO.     | FIG. NO. | NO. OF FACES | TYPE                            | LETTERING | HOUSING | REMOTE |
|--------------|----------|--------------|---------------------------------|-----------|---------|--------|
| EXLRW        | 1        | 2            | AC                              | Red       | White   | —      |
| EXLBURW-SL   | 1        | 2            | 90 Min. Slimline Battery Backup | Red       | White   | —      |
| EXLBUGW      | 1        | 2            | 90 Min. Battery Backup          | Green     | White   | —      |
| EEL2RW-LED   | 2        | 2            | 90 min. combo battery backup    | Red       | White   | No     |
| EEL2RWRM-LED | 2        | 2            | 90 min. combo battery backup    | Red       | White   | Yes    |
| EEL2GW       | 2        | 2            | 90 min. combo battery backup    | Green     | White   | No     |



# EMERGENCY LIGHTING

## Wet Location Exit & Emergency Lights

EMWL, EMTW Series

### SPECIFICATIONS

- UL Listed for wet locations.
- **Operating Temperature:** 68 °F - 104 °F (20 °C - 40 °C)
- Meets UL924.

### FEATURES

#### Wet Location LED Exit Light, Combo 2-Head Unit (EMWL)

- For commercial, industrial, and institutional lighting.
- Polycarbonate, corrosion resistant UV stabilized enclosures meet NFPA, NEC, OSHA, NEC and local and state codes, making these energy-saving wet location LED exit lights great for corrosive or damaging environments.
- Sealed 6V NiCd, rechargeable, maintenance-free battery and high-impact housing.
- Universal 120/277VAC operation with removable directional indicators.

#### Wet Location LED Emergency Light (EMTW)

- For commercial, industrial, and institutional lighting.
- Dual 120/277VAC operation.
- Polycarbonate, corrosion resistant UV stabilized enclosures meet NFPA, NEC, OSHA, NEC and local and state codes, making these energy-saving wet location LED exit lights great for corrosive or damaging environments.
- Sealed lead acid, rechargeable, maintenance-free battery and high-impact housing.
- Push-to-test switch and automatic, low-voltage disconnect (LVD).
- Completely self-contained.

Figure 1

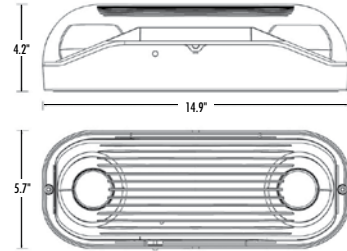
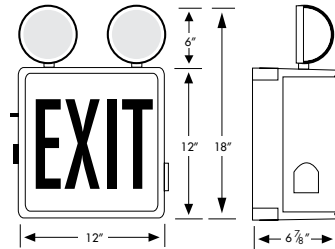


Figure 2



| CAT. NO.   | FIG. NO. | DESCRIPTION                                      | BATTERY TYPE                            | LETTERING | HOUSING | BATTERY | HEIGHT (H) (IN.) | WIDTH (W) (IN.) | DEPTH (D) (IN.) | LAMP                     |
|------------|----------|--|---|-----------|---------|---------|------------------|-----------------|-----------------|--------------------------|
| EMTWMR16WL | 1        | Wet Location Twin Head Mr16 Emergency Light-Gray | Sealed Lead Acid<br>90 Minute Operation | -         | -       | 6V      | 5.7              | 14.9            | 4.2             | 2 x 7 Watt MR-16 Halogen |
| EMWL26RW   | 2        | 2-Head Emergency Light                           | Sealed Lead Acid<br>90 Minute Operation | Red       | White   | 6V      | -                | -               | -               | 2 x 5.4 Watt Lamp Head   |

# EMERGENCY LIGHTING

## Heavy Duty Emergency Light & Emergency Fluorescent Ballast

### Emergency Light & Fluorescent Ballast

EMHD, FBP Series



#### SPECIFICATIONS

##### Heavy Duty Emergency Light (EMHD)

- UL Listed for dry locations.
- Meets UL924.

##### Emergency Fluorescent Ballast (FBP)

- UL Listed for damp locations.
- Operating Temperature: 32 °F - 122 °F (0 °C - 50 °C)
- Meets UL924.

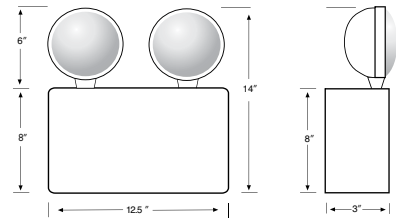
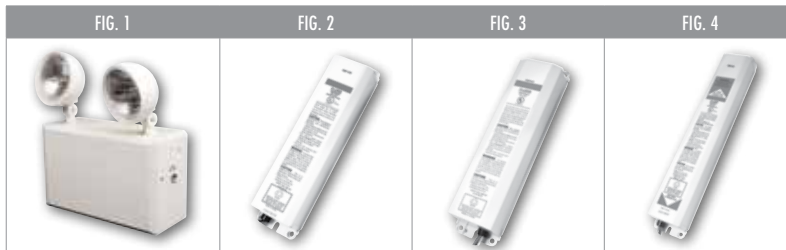
#### FEATURES

##### Heavy Duty Emergency Light (EMHD)

- For commercial, industrial, institutional and retail lighting.
- Automatic LVD (low voltage disconnect) and universal transformer for 120 or 277 VAC.
- This heavy duty light comes standard with two fully adjustable glare-free lighting heads and side and top conduit KO's.
- 6V premium grade, sealed lead acid, maintenance free batteries included with 10 year life expectancy.
- Remote capability and easy installation.
- Unit comes with 7.2 watt lamps standard.

##### Emergency Fluorescent Ballast (FBP)

- Premium grade, sealed NiCd, maintenance free batteries with 90 minute operation.
- Charge rate/power "ON" LED indicator and push-to-test switch.
- All ballast are standard with dual 120/277V input.



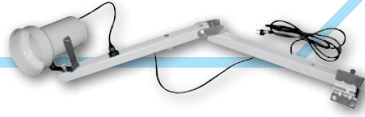
| CAT. NO. |          | FIG. NO.    |            | WATTAGE CAPACITY |      |                    |       | BATTERY |       |                           |       | VOLTAGE            |       |                 |    | LAMP   |    |         |    |
|----------|----------|-------------|------------|------------------|------|--------------------|-------|---------|-------|---------------------------|-------|--------------------|-------|-----------------|----|--------|----|---------|----|
| EMHD506  |          | 1           |            | 50 Watt          |      |                    |       | 6 Volts |       |                           |       | 120/277VAC         |       |                 |    | 13     |    |         |    |
| CAT. NO. | FIG. NO. | MAX. LUMENS | DIMENSIONS |                  |      | LINEAR FLUORESCENT |       |         |       | COMPACT FLUORESCENT LAMPS |       |                    |       | SPECIAL         |    | U-BEND |    |         |    |
|          |          |             | H          | L                | W    | T8(W)              |       | T12(W)  |       | 4-PIN CFL (W)             |       | 4-PIN LONG CFL (W) |       | T9 CIRCLINE (W) |    | T8 (W) |    | T12 (W) |    |
| # Lamps  |          |             |            |                  |      | 1L                 | 2L    | 1L      | 2L    | 1L                        | 2L    | 1L                 | 2L    | 1L              | 2L | 1L     | 2L | 1L      | 2L |
| FBP100   | 2        | 500         | 1.5"       | 9.4"             | 2.4" | 17-32              | -     | 20-40   | -     | 13-26                     | -     | 18-36              | -     | 20-40           | -  | 32-40  | -  | -       | -  |
| FBP60    | 3        | 700         | 1.5"       | 9.4"             | 2.4" | 25-32              | -     | 25-110  | -     | -                         | -     | -                  | -     | -               | -  | -      | -  | -       | -  |
| FBP50    | 4        | 1400        | 1.5"       | 13.3"            | 2.4" | 17-32              | 17-32 | 30-215  | 30-40 | 13-42                     | 13-26 | 18-55              | 18-36 | 40              | 40 | 32     | 32 | 34      | 34 |

LIGHTING

# INCANDESCENT LIGHTING

## Incandescent Loading Dock Lights

TA-DOK Series



### SPECIFICATIONS

- cULus Listed for wet locations.

### FEATURES

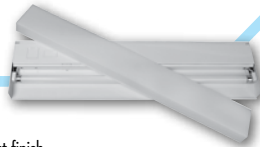
- Adjustable pivot friction which maintains intended positions.
- 1-1/2" square, 14 gauge steel arm resists damage from impact.
- 36", 3 conductor #18SJT cord with wall plug is included.
- Lamp not included.

| CAT. NO.    | DESCRIPTION              | COLOR  |
|-------------|--------------------------|--------|
| TA-DOK 40VA | 115VAC Extends 40 Inches | Yellow |
| TA-DOK 60VA | 115VAC Extends 60 Inches | Yellow |

# FLUORESCENT LIGHTING

## Fluorescent Undercabinet

UCF Series



### SPECIFICATIONS

- cULus Listed for wet locations.

### FEATURES

- For fluorescent undercabinet lighting is constructed of heavy duty steel with white powdercoat finish.
- UV inhibited acrylic diffuser with linear prism which snaps in for easy maintenance.
- T-5 4100K lamp included.
- Fluorescent is great for energy savings.
- Ultra thin, 1" thick.
- K.O.s on top, side and back.
- Includes rocker switch and lamp.

| CAT. NO.   | DESCRIPTION                               | VOLTS (V) | LENGTH (L) (IN.) | WIDTH (W) (IN.) | DEPTH (D) (IN.) |
|------------|---|-----------|------------------|-----------------|-----------------|
| UCF128WT5  | 8 Watt T-5 Electronic Ballast, with Lamp  | 110-125   | 12               | 5               | 1               |
| UCF2113WT5 | 13 Watt T-5 Electronic Ballast, with Lamp | 110-125   | 21               | 5               | 1               |
| UCF2416WT5 | 16 Watt T-5 Electronic Ballast, with Lamp | 110-125   | 24               | 5               | 1               |
| UCF3321WT5 | 21 Watt T-5 Electronic Ballast, with Lamp | 110-125   | 33               | 5               | 1               |
| UCF4226WT5 | 26 Watt T-5 Electronic Ballast, with Lamp | 110-125   | 42               | 5               | 1               |

# INCANDESCENT LIGHTING

## Box & Wall Vaportite

VTB, VTW Series

### SPECIFICATIONS

- cULus Listed for wet locations.

### FEATURES

- For well or pit lighting, indicators on docks, industrial and commercial lighting.
- Heavy duty die cast aluminum housing.
- One piece locking die cast aluminum guard with grey polyester powder coat finish.
- Screw in tempered glass globe.
- 1/2" NPT knockouts.
- Lamp not included.



| CAT. NO. | FIG. NO. | DESCRIPTION   | HEIGHT (L) (IN.) | WIDTH (W) (IN.) | LAMP         | STD. CTN. QTY. |
|----------|----------|---|------------------|-----------------|--------------|----------------|
| VTB15012 | 1        | Box 150 Watt 1/2" Vaportite                         | 9                | 4.125           | Incandescent | –              |
| VTW15012 | 2        | Wall 150 Watt 1/2" Vaportite                        | 10               | 7.13            | Incandescent | –              |
| CG150    | 3        | Clear Glass Globe for 150 Series Vaportite Fixtures | –                | –               | –            | –              |

## ACCESSORIES

SLUL, SC, RS Series



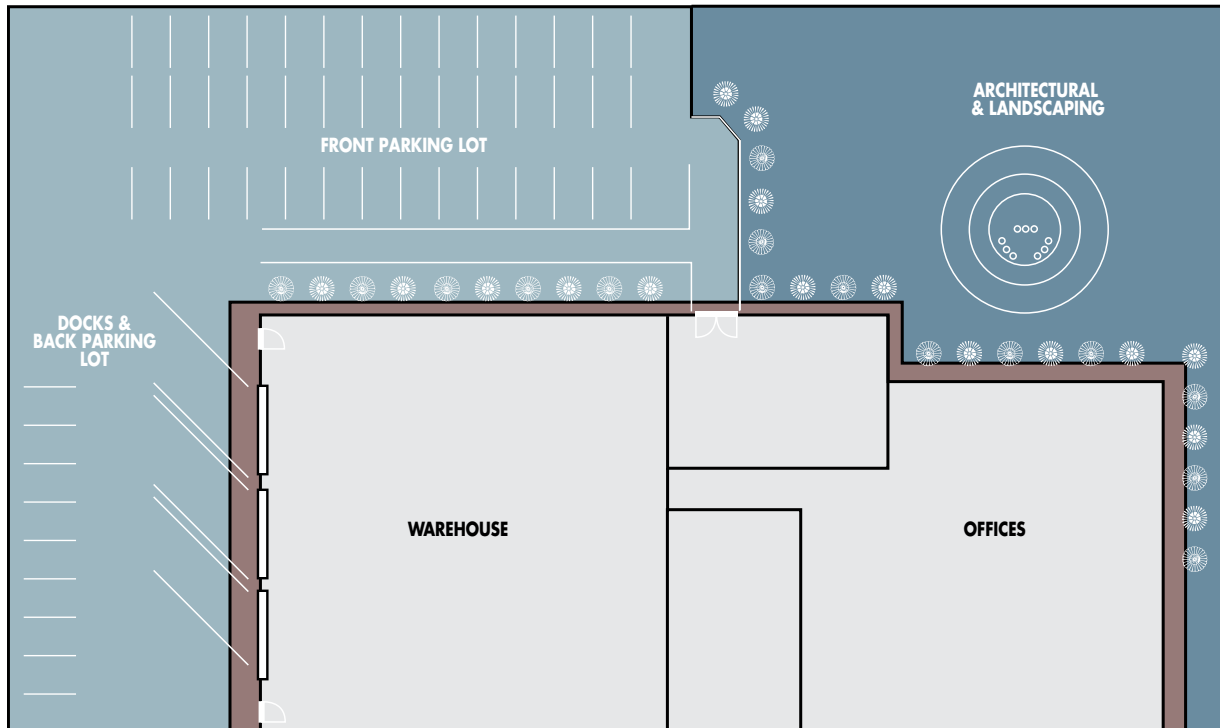
| CAT. NO.            | FIG. NO. | DESCRIPTION  | HEIGHT (L) (IN.) | WIDTH (W) (IN.) | LAMP | STD. CTN. QTY. |
|---------------------|----------|--|------------------|-----------------|------|----------------|
| SLUL100 (UL Listed) | 1        | 100 Ft. With Molded Sockets In 10 Ft. Intervals. 150 Watts. Osha And Nec Compliant. High Visibility Yellow | –                | –               | –    | 1              |
| SC200               | 2        | Standard Cage  | –                | –               | –    | 24             |
| RS200               | 3        | Rotatable Socket 200 Watt  | –                | –               | –    | 24             |

# ENERGY CODE REFERENCE GUIDE

## EXTERIOR LIGHTING ZONES

When ambient light levels drop at dusk, lighting is needed to provide safety and security. BUT: Does all lighting need to be on all night long? The proper selection of lighting controls is essential to ensuring that energy is only used when needed. An efficient lighting control design creates zones of light levels that can be varied by time at night.

|   |   |  |
|---|---|--|
| <p><b>ZONE 1</b><br/><b>DUSK TO DAWN</b><br/><b>All night Security Lighting</b><br/>Photocontrols and Photosensors</p> <p>The first zone gives a minimum light level where security is the primary need. Determine what lighting is necessary, such as building-mounted wallpacks and a portion of the parking lot lighting. These should be on from dusk to dawn, and are best controlled by a photosensor device.</p> | <p><b>ZONE 2</b><br/><b>DUSK TO TIME OFF</b><br/><b>Safety and Architectural Lighting</b><br/>Photosensor/Time-based controls, Astronomic controls</p> <p>The second zone provides a higher light level for safety, when people are normally present. Maximum levels for the parking lot and all walkway lighting are needed. These lights are best controlled by a combination photosensor and time-based device to allow shut-off during the night. The astronomic-calculated sunset/time control can also be useful.</p> | <p><b>ZONE 3</b><br/><b>ARCHITECTURAL</b><br/><b>Building Facade, Landscape and Signage</b><br/>Astronomic controls</p> <p>The third zone covers architectural lighting for building facade or landscape and signs. These are best controlled with an astronomic-calculated sunset/time control.</p> |
|---|---|--|



< Responsible Energy is the mark of TORK's commitment to developing and manufacturing energy saving, environmentally friendly products.



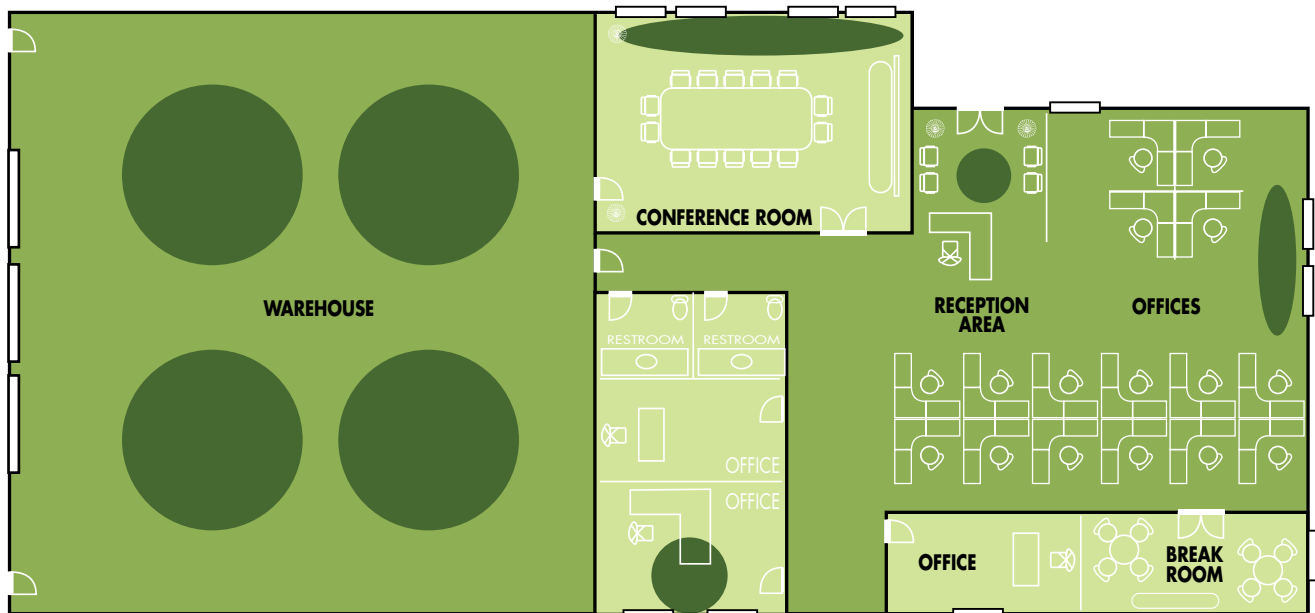
Energy Saving Solutions  
Lighting Controls

# ENERGY CODE REFERENCE GUIDE

## INTERIOR LIGHTING ZONES

The first way to save energy begins with eliminating lighting when it isn't needed. As with exterior lighting, an efficient design matches controls to the typical use of the area.

|  |   |  |
|--|---|--|
| <p><b>ZONE A</b><br/><b>SMALL SPACES</b><br/><b>Meeting Rooms, Restrooms and Storage Spaces</b><br/>Occupancy Sensors/Interval Timers</p> <p>The first zone includes small spaces such as offices, restrooms and storage areas —places where people may not occupy the space continuously. Individual wall switch replacement provides low cost installation, with occupancy sensors and interval timers as the best solution. In the event that wall switches do not provide proper coverage for the occupancy sensor, ceiling mounted options are available.</p> | <p><b>ZONE B</b><br/><b>LARGE SPACES</b><br/><b>Open Offices, Public Spaces, Hallways and Warehouses</b><br/>Time of Day with Override/Occupancy Sensors</p> <p>The second zone is for common areas, such as hallways, reception spaces or large spaces for open offices. These places are commonly controlled with time-of-day devices and must include an after-hours override. A conveniently placed switch should provide a limited override with a maximum length of two or four hours*, or occupancy sensors can be used to ensure that lights are shut off when people have left the building.<br/>* Energy codes vary on the stated maximum time, but shorter times can give more energy savings.</p> | <p><b>ZONE C</b><br/><b>DAYLIGHT HARVESTING</b><br/><b>Large or Small Spaces with Natural Light</b><br/>Light Sensors, Light Sensors with Occupancy Sensors/Astronomic Timers</p> <p>A third zone that uses daylighting control can be added to either of the first two zones. Light sensors can shut off a portion of the lighting when windows or skylights contribute sufficient natural light to the area. This “harvesting” of light is an excellent, green way to conserve energy.</p> |
|--|---|--|



### Responsible Energy

Each of these marked products have features that decrease energy consumption and/or damage to the environment by one or more of the following:

- Timed control, Photocontrol and/or Astronomic control of on and off functions of lighting, fans, pumps and appliances.
- Timed control of systems or multiple zones of lighting.
- Photo or occupancy sensing control of lighting.
- Supercapacitor backup, no batteries to replace or dispose.
- Helps meet CA Title 24, ASHRAE, IECC and other standards for responsible building products.



Use the Quick Reference  
**Energy Code Guide** for approved products.









**TORK<sup>®</sup> MECHANICAL**



# QUICK REFERENCE GUIDE

| SERIES | PAGE NO. | CLOCK DIAL          | MINIMUM SETTINGS (MINUTES)      |     | SKIP A DAY | MANUAL OVERRIDE      | SUNRISE/SUNSET  | MAX ON & OFF EVENTS PER DAY | SWITCH TYPES |      |      |      | RATINGS (AMPS)   | RESERVE POWER |           |
|--------|----------|---------------------|---------------------------------|-----|------------|----------------------|---|-----------------------------|--------------|------|------|------|------------------|---------------|-----------|
|        |          |                     | ON                              | OFF |            |                      |   |                             |              |      |      |      |                  |               |           |
| TU40   | 325      | 24 Hour             | 15                              | 15  |            | Permanent            |   | 48                          | SPST         | DPST | SPDT | DPDT | 40               |               |           |
| 1100   | 326      | 24 Hour             | 20                              | 75  |            | Yes                  |   | 12                          | SPST         | DPST |      |      | 40               |               |           |
| 7000   | 327      | 24 Hour             | 20                              | 75  | Yes        | Yes                  |   | 12                          | SPST         | DPST | SPDT | DPDT | 3PST             | 40            | Available |
| 7000Z  | 328      | 24 Hour             | 20 or 40 Minute Offset          |     | Yes        | Yes                  |  | 1                           |              | DPST | SPDT |      | 3PST             | 40            | Available |
| TZ     | 336      | 24 Hour             | 20 or 40 Minute Offset          |     | Yes        | Permanent by circuit |  | 1                           |              |      |      | DPDT | 3PST             | 20            | Standard  |
| W      | 333      | 7 Day               | 60                              | 120 | Yes        | Yes                  |   | 2                           | SPST         | DPST | SPDT | DPDT | 3PST<br>4PST     | 40            | Available |
| TW     | 335      | 7 Day               | 60                              | 120 | Yes        | Permanent by circuit |   | 2                           |              |      |      | DPDT | 3PST             | 20            | Standard  |
| T900   | 334      | 7 Day               | 60                              | 120 | Yes        | Permanent by circuit | Photo Control   | 2                           |              |      |      |      | 2 SPDT<br>3 SPDT | 20            | Standard  |
| 8000   | 329      | 24 Hour             | 15                              | 15  | Available  |                      |   | 48                          |              |      | SPDT |      |                  | 20            | Available |
| 8000   | 330      | 6, 12, 30 & 60 Min. | Varies by dial 6 sec. to 1 min. |     |            |                      |   | 30/dial                     |              |      | SPDT |      |                  | 20            |           |
| WH2B   | 331      | 24 Hour             | 20                              | 75  |            | Yes                  |   | 12                          |              |      | DPST |      |                  | 40            |           |

| IN-WALLS                    |     | A                   | C                   | 711A/701B          |
|-----------------------------|-----|---------------------|---------------------|--------------------|
| Page No.                    |     | 343                 | 344                 | 341/342            |
| Timer Type                  |     | Auto OFF Mechanical | Auto OFF Mechanical | 24 Hour Mechanical |
| Voltage                     |     | 125/250/277         | 125/250/277         | 120                |
| Minimum Settings            | ON  | Various 2 min-12 hr | Various 2 min-12 hr | 30 min.            |
|                             | OFF |                     |                     | 30 min.            |
| Switch Type                 |     | SPDT                | SPDT or DPST        | SPST               |
| Resistive Ratings           |     | 20/10/10A           | 20/10/10A           | 20/15A             |
| Neutral Required for Wiring |     | No                  | No                  | Yes                |
| 3-Way Wiring                |     | No                  | No                  | No                 |

# FEATURES



## 1. EASY TO SET DIAL ASSEMBLY

Tork's 24 hour dial assembly allows the user to set the time switch more accurately, easily moving it by hand in small increments. Dial can provide up to 12 ON/OFFs per day with cycles as short as 20 minutes. AM and PM settings are easy to see by the light and dark areas of the dial.

## 2. CAPTIVE TABS - DUTY CYCLE DIAL

For applications requiring many ON/OFF cycles per day, captive tabs on this dial tilt in and out just using your fingertip!

## 3. FIELD UPGRADEABLE TO SunSet DIALS

All Tork 24 hour time switches can be upgraded in the field to a SunSet timer dial.

## 4. SPRING WOUND RESERVE

During power outages, precision spring mechanism takes over instantly and automatically. Keeps the mechanism on time up to 16 hours on 24 hour models and up to 24 hours on 7 day models. No resetting is needed after power resumes, and field installation is easy.

## 5. REMOVABLE DOOR

Tork time switches feature removable doors to provide easy access for installation and wiring.

## 6. ENCLOSED MOTOR

Time switch motors are enclosed to protect from dirt and damage.

## QUALITY ASSURANCE

**TORK®** Electromechanical Controls are designed and manufactured with components which adhere to the highest industry standards. Trained personnel and in-process quality procedures ensure that every unit meets our strictest quality expectations.

# MECHANICAL

## 24 Hour Time Switch

Universal Multi-Voltage, Same ON/OFF Times  
TU40 Series



### APPLICATIONS

- Lighting, pumps, signs.
- Air conditioning, water heaters, fans.
- Automatic ON/OFF control when operation is required at the same time every day.

### FEATURES

- **Multi-Voltage:** Automatic input voltage detection.
- **Easy-Set:** Real time clock face and day/night markings for setting trippers.
- **Scheduling:** Minimum ON is setting 15 minutes. Dial has 96 captive trippers.
- **4 In 1 Contacts:** DPDT can also wire as SPST, SPDT, & DPST.
- **Bypass Switch:** Sets timer to permanent ON, OFF or timer operation.
- **Vacation Mode:** Set timer OFF with no change of tripper settings.
- **Indicating Lights:** Power ON green and load ON red and LED indicators.
- **Standards:** Listed UL60370 (formerly UL60730).

### SPECIFICATIONS

- **Input Voltage:** 120/208-240/277 VAC, 60Hz (Auto Detection).
- **Timing Accuracy:** Line Frequency.
- **Terminal Range:** #8 - #18 Awg.
- **Operating Temperature:** -31°F To 116°F (-35°C To +47°C).
- **Power Consumption:** 6 Watts Maximum.
- **Enclosure:** Polycarbonate Indoor/Outdoor Nema 3R Or-Y Suffix Metal Indoor Nema 1 Enclosure. Both With Lockable Hasp Standard (See Pages 464-468 For Dimensions).

### WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | DRY CONTACTS (UNPOWERED) | ENCLOSURE TYPE                 |
|----------|----------|-------------------------|--------------------------|--------------------------------|
| TU40     | 24000    | 120/208-240/277         | DPDT                     | Plastic Indoor/Outdoor NEMA 3R |
| TU40-Y   | 24001    | 120/208-240/277         | DPDT                     | Metal Indoor NEMA 1            |

| TYPE            | VOLTAGE (VAC) | RATING            |                   |
|-----------------|---------------|-------------------|-------------------|
|                 |               | NO                | NC                |
| General Purpose | 120-277       | 40A               | 30A               |
| Inductive       | 120-277       | 30A               | 15A               |
| Ballast         | 120           | 30A               | 10A               |
|                 | 277           | 20A               | 10A               |
| Tungsten        | 120           | 15A               |                   |
| Motor Load      | 120           | 1HP, 30FLA, 90LRA | ¼HP, 12FLA, 30LRA |
|                 | 240           | 2HP, 20FLA, 60LRA | ½HP, 12FLA, 33LRA |
| Pilot Duty      | 120           | 720VA             | 290VA             |
|                 | 240           | 720VA             | 360VA             |
| Resistive       | 28VDC         | 20A               |                   |
| Max above 104°F | 120-277       | 30A               |                   |



# MECHANICAL

## 24 Hour Time Switch

Same ON/OFF Times Each Day

1100 Series



### APPLICATIONS

- Lighting, pumps, signs.
- Air conditioning, water heaters, fans.
- Automatic ON/OFF control when operation is required at the same time every day.

### FEATURES

- **Scheduling:** Minimum ON is setting 20 minutes with a minimum OFF setting of 75 minutes. Dial accommodates up to 12 pairs of trippers. One pair included.
- **Manual Override:** Until the next regularly scheduled ON or OFF automatic operation then resumes.
- **Standards:** Listed UL917.
- **Enclosed Motor:** Protects gears for extended life.

### SPECIFICATIONS

- **Input Voltage:** 120 or 208-277 VAC 60Hz, varies by model.
- **Timing Accuracy:** Line frequency.
- **Terminal Range:** #8 - #14 AWG.
- **Operating Temperature:** -40° to 165°F (-40° to +74°C).
- **Power Consumption:** 3 watts maximum.
- **Enclosure:** Lockable hasp. Type varies by model (See Pages 464-468 For Dimensions).
- **Other Mountings:** Adaptor Plate model #IAP allows any 1100 series to fit into an Intermatic® case.

### WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

| CAT. NO.             | CERTIFICATION   | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE                              |
|----------------------|---|----------|-------------------------|-----------------|---|
| 1109A                | cULus   | 10105    | 120-277                 | DPST            | Metal Indoor NEMA 1                         |
| 1109A-O              | cULus   | 10106    | 120-277                 | DPST            | Metal Indoor/Outdoor NEMA 3                 |
| 1101                 | UL  | 10011    | 120                     | SPST            | Metal Indoor NEMA 1                         |
| 1101B                | cULus   | 10064    | 120                     | SPST            | Metal Indoor NEMA 1                         |
| 1101B-P              | cULus   | 10068    | 120                     | SPST            | Polycarbonate Indoor/Outdoor NEMA 3R        |
| 1101B-PC             | cULus   | 10095    | 120                     | SPST            | Polycarbonate Outdoor w/clear cover NEMA 3R |
| 1101BM-IAP           | cULus   | 10073    | 120                     | SPST            | Mechanism and retrofit plate                |
| 1101-7               | CSA   | 10033    | 347                     | SPST            | Metal Indoor NEMA 1                         |
| 1102B                | cULus   | 10065    | 208-277                 | SPST            | Metal Indoor NEMA 1                         |
| 1103B                | cULus   | 10066    | 120                     | DPST            | Metal Indoor NEMA 1                         |
| 1103B-P              | cULus   | 10069    | 120                     | DPST            | Polycarbonate Indoor/Outdoor NEMA 3R        |
| 1103B-PC             | cULus   | 10096    | 120                     | DPST            | Polycarbonate Outdoor w/clear cover NEMA 3R |
| 1103B-O              | cULus   | 10098    | 120                     | DPST            | Metal Indoor/Outdoor NEMA 3                 |
| 1104B                | cULus   | 10067    | 208-277                 | DPST            | Metal Indoor NEMA 1                         |
| 1104B-P              | cULus   | 10070    | 208-277                 | DPST            | Polycarbonate Indoor/Outdoor NEMA 3R        |
| 1104B-PC             | cULus   | 10097    | 208-277                 | DPST            | Polycarbonate Outdoor w/clear cover NEMA 3R |
| 1104B-O              | cULus   | 10075    | 208-277                 | DPST            | Metal Indoor/Outdoor NEMA 3                 |
| 1104BM-IAP           | cULus   | 10074    | 208-277                 | DPST            | Mechanism and retrofit plate                |
| Replacement Trippers | Order #P47 for a pair of ON/OFF trippers                              |          |                         |                 |   |
| Replacement Motor    | #101 (120V) & #201 (208-277V)   |          |                         |                 |   |
| sunSet Conversion    | Astronomic dial. Consult factory for correct number for your latitude |          |                         |                 |   |

| TYPE   | VOLTAGE (VAC) | CONTACT RATING |
|--|---------------|----------------|
| General Purpose  | 120-277       | 40A            |
| Resistive  | 120-277       | 40A            |
| Tungsten   | 120           | 40A            |
| Ballast  | 120-277       | 20A            |
| *Electronic Ballast (LED)  | 120-277       | 16A            |
| LED Driver   | 120-277       | 20A            |
| Pilot Duty   | 120           | 1000VA         |
|  | 240           | 2000VA         |
| Motor  | 120           | 2HP            |
|  | 240           | 5HP            |
| 277VAC Single Phase  |               |                |
| 1101 is 1000VA Pilot Duty.<br>1101-7 is 30 Amp Inductive at 347 Volts and CSA Only.<br>*1109A Series Only. |               |                |

# MECHANICAL 24 Hour Time Switch

Skip-A-Day Feature, Reserve Power Optional  
7000 Series



## APPLICATIONS

- Lighting, heating, pumps.
- Air conditioning, signs.
- Automatic ON/OFF control when operation is required at the same time every day, with optional versatility of one to six days omission.

## FEATURES

- **Scheduling:** Minimum ON setting is 20 minutes with minimum OFF setting at 75 minutes. Dial accommodates up to 12 pairs of trippers. One pair included.
- **Skip-A-Day:** Omit operations on any day with a 7-spoke wheel marked with days of week. 3 omitting screws included.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Optional Reserve Power:** "L" models keep dial on time up to 16 hours during power outage.
- **Standards:** Listed UL917.
- **Enclosed Motor:** Protects gears for extended life.

## SPECIFICATIONS

- **Input Voltage:** 120 or 208-277 Vac 60 Hz Varies By Model.
- **Timing Accuracy:** Line Frequency.
- **Terminal Range:** #8 - #14 Awg.
- **Operating Temperature:** -40° To 165°F (-40° To +74°C).
- **Power Consumption:** 3 Watts, 5 Watts For "L" Models Maximum.
- **Enclosure:** Lockable Hasp. Type Varies By Model (See Pages 464-468 For Dimensions).
- **Other Mountings:** Adaptor Plate Model #IAP Allows Any 7100 And 7200 Series (Except "L" Models) To Fit Into An Intermatic® Case.

## WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

| CAT. NO.   | UPC CODE   | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE              |
|--|--|-------------------------|-----------------|-----------------------------|
| 7100   | 10001  | 120                     | SPST            | Metal Indoor NEMA 1         |
| 7102   | 10002  | 208-277                 | SPST            | Metal Indoor NEMA 1         |
| 7200   | 11001  | 120                     | DPST            | Metal Indoor NEMA 1         |
| 7202   | 11002  | 208-277                 | DPST            | Metal Indoor NEMA 1         |
| 7300   | 12001  | 120                     | 3PST            | Metal Indoor/Outdoor NEMA 3 |
| 7302   | 12002  | 208-277                 | 3PST            | Metal Indoor/Outdoor NEMA 3 |
| 7120   | 13001  | 120                     | SPDT            | Metal Indoor NEMA 1         |
| 7122   | 13002  | 208-277                 | SPDT            | Metal Indoor NEMA 1         |
| 7220   | 14001  | 120                     | DPDT            | Metal Indoor NEMA 1         |
| WITH RESERVE POWER (Contact factory for lead time) |  |                         |                 |                             |
| 7200L  | 19003  | 120                     | DPST            | Metal Indoor NEMA 1         |
| 7202L  | 19004  | 208-277                 | DPST            | Metal Indoor NEMA 1         |
| 7300L  | 19005  | 120                     | 3PST            | Metal Indoor/Outdoor NEMA 3 |
| 7120L  | 19007  | 120                     | SPDT            | Metal Indoor NEMA 1         |
| 7220L  | 19009  | 120                     | DPDT            | Metal Indoor NEMA 1         |
| Replacement Trippers                               | Order #P49 for a pair of ON/OFF per dial. Additional ON/OFF trippers per dial order #P47. 3 omitting screws #53005 supplied. |                         |                 |                             |
| Replacement Motor                                  | #101 (120V) & #201 (208-277V). For "L" models #36 (120V) & #46 (208-277V).   |                         |                 |                             |
| SunSet Conversion                                  | Astronomic dial. Consult factory for correct number for your latitude  |                         |                 |                             |

| TYPE                  | VOLTAGE (VAC) | CONTACT RATING |
|-----------------------|---------------|----------------|
| General Purpose       | 120 -277      | 40A            |
| Resistive             | 120 -277      | 40A            |
| Tungsten              | 120           | 40A            |
| Ballast               | 120-277       | 20A            |
| Pilot Duty            | 120 -277      | 1000VA         |
| Motor                 | 120           | 2HP            |
|                       | 240           | 5HP            |
| 277 volt Single Phase |               |                |



# MECHANICAL

## SunSet Time Switch

Astronomic, Reserve Power Optional

7000Z Series



### APPLICATIONS

- Parking lots, walkways, outdoor signage.
- Window displays, canopy lighting, landscape lighting.
- Automatic ON at dusk, OFF at dawn. Control of outdoor lighting.

### FEATURES

- **SunSet Astronomic:** Adjusts daily to changes in sunset times. Turn ON at sunset and OFF at sunrise daily. OFF time can be set from 8:30PM to 2:30AM. Can be individually offset +/- 20 or 40 minutes from both sunset and OFF times. Available from 18° - 45° northern latitudes.
- **Skip-A-Day:** Omit operations on any day with a 7 spoke wheel marked with days of the week. 3 omitting screws included.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Optional Reserve Power:** "L" models keep dial on time up to 16 hours during power outage.
- **Standards:** Listed UL917.
- **Enclosed Motor:** Protects gears for extended life.

### SPECIFICATIONS

- **Input Voltage:** 120 or 208-277 VAC 60 Hz, Varies By Model.
- **Timing Accuracy:** Line Frequency.
- **Terminal Range:** #8 - #14 Awg.
- **Operating Temperature:** -40° To 165°F (-40° To +74°C).
- **Power Consumption:** 3 Watts, 5 Watts For "L" Models Maximum.
- **Enclosure:** Lockable Hasp. Type Varies By Model (See Pages 464-468 For Dimensions).

### WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.



| CAT. NO.  | UPC CODE | INPUT SUPPLY (VAC) 60Hz  | OUTPUT CONTACTS | ENCLOSURE TYPE                |
|---|----------|--|-----------------|-------------------------------|
| 7200Z-*   | **       | 120  | DPST            | Noryl® Indoor/Outdoor NEMA 3R |
| 7202Z-*   | **       | 208-277  | DPST            | Noryl® Indoor/Outdoor NEMA 3R |
| 7300Z-*   | **       | 120  | 3PST            | Metal Indoor/Outdoor NEMA 3   |
| 7302Z-*   | **       | 208-277  | 3PST            | Metal Indoor/Outdoor NEMA 3   |
| 7120Z-*   | **       | 120  | SPDT            | Noryl® Indoor/Outdoor NEMA 3R |
| WITH RESERVE POWER (Contact factory for lead time)                                  |          |  |                 |                               |
| 7200ZL-*  | **       | 120  | DPST            | Noryl® Indoor/Outdoor NEMA 3R |
| 7202ZL-*  | **       | 208-277  | DPST            | Noryl® Indoor/Outdoor NEMA 3R |
| 7300ZL-*  | **       | 120  | 3PST            | Metal Indoor/Outdoor NEMA 3   |
| 7302ZL-*  | **       | 208-277  | 3PST            | Metal Indoor/Outdoor NEMA 3   |
| 7120ZL-*  | **       | 120  | SPDT            | Noryl® Indoor/Outdoor NEMA 3R |
| Replacement Motor   |          | #101 (120V) & #201 (208-277V).<br>For "L" models #36 (120V) & #46 (208-277V) |                 |                               |
| Add degrees latitude to complete number (30,34,42). Consult factory for UPC number. |          |  |                 |                               |

| TYPE                | VOLTAGE (VAC) | CONTACT RATING |
|---------------------|---------------|----------------|
| General Purpose     | 120 - 277     | 40A            |
| Resistive           | 120 - 277     | 40A            |
| Tungsten            | 120           | 40A            |
| Ballast             | 120-277       | 20A            |
| Pilot Duty          | 120 - 277     | 1000VA         |
| Motor               | 120           | 2HP            |
|                     | 240           | 5HP            |
| 277VAC Single Phase |               |                |

# MECHANICAL

## 24 Hour Duty Cycle Time Switch

### Multiple Daily ON/OFF Operations

#### 8000 Series



#### APPLICATIONS

- Duty cycling, ventilating fans, pumping.
- Irrigation, process control, laboratory experiments.
- For one or multiple daily ON/OFF operations.

#### FEATURES

- **Scheduling:** Minimum ON setting is 15 minutes with minimum OFF setting at 15 minutes. Dial has 96 captive tabs.
- **Duty Cycle:** Adjustable from 1/2, 1, 2, 3, 4, 6, 12, and 24 hours.
- **Skip-A-Day:** Some models include 7 day or 14 day wheel to omit selected days of the week.
- **Optional Reserve Power:** "L" models keep dial on time up to 16 hours during power outage.
- **Standards:** Listed UL917.
- **Enclosed Motor:** Protects gears for extended life.

#### SPECIFICATIONS

- **Input Voltage:** 120, 208-277VAC or 480VAC, 60Hz, Varies By Model.
- **Timing Accuracy:** Line Frequency.
- **Terminal Range:** #8 - #14Awg.
- **Operating Temperature:** -40° To 165°F (-40° To +74°C).
- **Power Consumption:** 3 Watts, 5 Watts For "L" Models Maximum.
- **Enclosure:** Lockable Hasp. Type Varies By Model (See Pages 464-465 For Dimensions).
- **Other Mountings:** Adaptor Plate Model #IAP Allows 8001 & 8004 To Fit Into An Intermatic® Case.

#### WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

| CAT. NO.                | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE                |
|-------------------------|----------|-------------------------|-----------------|-------------------------------|
| 8001                    | 70001    | 120                     | SPDT            | Metal Indoor NEMA 1           |
| 8001-N                  | 70025    | 120                     | SPDT            | Noryl® Indoor/Outdoor NEMA 3R |
| 8001-LC/WB              | 70010    | 120                     | SPDT            | Mechanism and bracket         |
| 8001-O                  | 70029    | 120                     | SPDT            | Metal Indoor/Outdoor NEMA 3   |
| 8004                    | 70002    | 208-277                 | SPDT            | Metal Indoor NEMA 1           |
| 8001U                   | 70003    | 480/120 Trans.          | SPDT            | Metal Indoor NEMA 1           |
| 8001U-N                 | 70014    | 480/120 Trans.          | SPDT            | Noryl® Indoor/Outdoor NEMA 3R |
| 8001U-O                 | 70011    | 480/120 Trans.          | SPDT            | Metal Indoor/Outdoor NEMA 3   |
| 24 HOUR WITH SKIP-A-DAY |          |                         |                 |                               |
| 8007                    | 70005    | 120                     | SPDT            | Metal Indoor NEMA 1           |
| 8007-O                  | 70012    | 120                     | SPDT            | Metal Indoor/Outdoor NEMA 3   |
| 8008                    | 70006    | 208-277                 | SPDT            | Metal Indoor NEMA 1           |
| 8007U                   | 70008    | 480/120 Trans.          | SPDT            | Metal Indoor NEMA 1           |
| 8007U-O                 | 70028    | 480/120 Trans.          | SPDT            | Metal Indoor/Outdoor NEMA 3   |

| TYPE      | VOLTAGE (VAC) | CONTACT RATING |
|-----------|---------------|----------------|
| Resistive | 120/240       | 20A            |
|           | 480           | 20A            |
| Motor     | 120           | 3/4 HP         |

# MECHANICAL

## Repeating Variable Cycle Time Switch

### Multiple ON/OFF Cycles

#### 8000 Series



#### APPLICATIONS

- Duty cycling, ventilating fans, pumping.
- Irrigation, process control, laboratory experiments.
- For one or multiple daily ON/OFF operations.

#### FEATURES

- **Scheduling:** 60 captive tabs per dial with minimum ON/OFF settings:
  - 60 minute dial with 1 minute tabs.
  - 30 minute dial with 30 second tabs.
  - 12 minute dial with 12 second tabs.
- **Duty Cycle:** Settings of 1/60 th of dial speed.
- **Standards:** Listed UL917.
- **Enclosed Motor:** Protects gears for extended life.

#### SPECIFICATIONS

- **Input Voltage:** 120VAC, 60Hz.
- **Timing Accuracy:** Line Frequency.
- **Terminal Range:** #8 - #14Awg.
- **Operating Temperature:** -40° To 165°F (-40° To +74°C).
- **Power Consumption:** 3 Watts Maximum.
- **Enclosure:** Indoor Nema 1 Metal With Lockable Hasp (See Pages 464-465 For Dimensions).

#### WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

| CAT. NO.          | UPC CODE  | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | TYPE      |
|-------------------|---|-------------------------|-----------------|-----------|
| 8601              | 70034   | 120                     | SPDT            | 60 Minute |
| 8121              | 70032   | 120                     | SPDT            | 12 Minute |
| Replacement Motor | For 8601 #102, for 8301 #108, and for 8121 #107 |                         |                 |           |

| TYPE      | VOLTAGE (VAC) | CONTACT RATING |
|-----------|---------------|----------------|
| Resistive | 120 or 240    | 20A            |
|           | 480           | 20A            |
| Motor     | 120           | 3/4 HP         |

# MECHANICAL

## 24 Hour Time Switch

### Water Heater Control

#### WH2B



#### SPECIFICATIONS

- **Input Voltage:** 208 – 250V 60 Hz.
- **Timing Accuracy:** Line frequency.
- **Terminal Range:** #8 - #14AWG.
- **Operating Temperature:** -40° to 165°F (-40° to +74°C).
- **Power Consumption:** 3 watts maximum.
- **Enclosure:** Indoor NEMA 1 Metal with lockable hasp (See Pages 464-465 For Dimensions).

#### WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

#### APPLICATIONS

Automatic ON/OFF control of electric water heaters. Schedules the water heater to turn ON only when needed, avoiding energy waste when hot water is not needed.

#### FEATURES

- **Scheduling:** Minimum ON is setting 20 minutes with a minimum OFF setting of 75 minutes. Dial accommodates up to 12 pairs. 1 pair of trippers supplied.
- **External Manual Override:** Until the next regularly scheduled ON or OFF automatic operation then resumes.
- **Enclosed Motor:** Protects gears for extended life.
- **Standards:** Listed UL917.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE      |
|----------|----------|-------------------------|-----------------|---------------------|
| WH2B     | 70044    | 208-250                 | DPST            | Metal Indoor NEMA 1 |

| TYPE                 | VOLTAGE (VAC)                            | CONTACT RATING  |
|----------------------|--|-----------------|
| Resistive            | 208-250                                  | 40 A<br>10,000W |
| Replacement Motor    | #201 (208-277)                           |                 |
| Replacement Trippers | Order #P47 for a pair of ON/OFF trippers |                 |

# MECHANICAL

## 7 Day Time Switch

### Different Schedules Each Day

#### W Series



#### APPLICATIONS

- Heating, air conditioning, display lighting.
- Ventilating systems, lighted signage, storefront lighting.

#### FEATURES

- **Scheduling:** Minimum ON setting is 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. Models W400A and W402A offer minimum ON/OFF settings of 3½ hours. 7 day calendar dial accommodates up to 2 pairs of ON/OFF trippers per day 7 pairs are supplied.
- **Skip-A-Day:** Omit operations on any day.
- **Manual Override:** Until the next regularly scheduled ON or OFF automatic operation then resumes.
- **Optional Reserve Power:** "L" models keep dial on time up to 24 hours during power outage.
- **Standards:** Listed UL917.
- **Enclosed Motor:** Protects gears for extended life.

#### SPECIFICATIONS

- **Input Voltage:** 120 or 208-277VAC, 60Hz, varies by model.
- **Timing Accuracy:** Line frequency.
- **Terminal Range:** #8 - #14AWG.
- **Operating Temperature:** -40° to 165°F (-40° to +74°C).
- **Power Consumption:** 3 watts, 5 watts for "L" models maximum.
- **Enclosure:** Indoor NEMA 1 Metal with lockable hasp. (See Pages 464-465 For Dimensions).

#### WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

| CAT. NO.   | CERTIFICATION  | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE         |  |
|--|--|----------|-------------------------|-----------------|------------------------|--|
| W100   | cULus  | 30001    | 120                     | SPST            | Metal Indoor<br>NEMA 1 |  |
| W120   | cULus  | 33001    | 120                     | SPDT            |                        |  |
| W200   | cULus  | 31001    | 120                     | DPST            |                        |  |
| W202   | cULus  | 31011    | 208-277                 | DPST            |                        |  |
| W220   | cULus  | 34001    | 120                     | DPDT            |                        |  |
| W222   | cULus  | 34011    | 208-277                 | DPDT            |                        |  |
| W300   | cULus  | 32001    | 120                     | 3PST            |                        |  |
| W400B  | UL   | 35003    | 120                     | 4PST            |                        |  |
| W402B  | UL   | 35004    | 208-277                 | 4PST            |                        |  |
| WITH RESERVE POWER (Contact factory for lead time) |  |          |                         |                 |                        |  |
| W220L  | cULus  | 39009    | 120                     | DPDT            |                        |  |
| W222L  | cULus  | 39010    | 208-277                 | DPDT            |                        |  |
| W300L  | cULus  | 39005    | 120                     | 3PST            |                        |  |
| W302L  | cULus  | 39006    | 208-277                 | 3PST            |                        |  |
| W400BL   | UL   | 39008    | 120                     | 4PST            |                        |  |
| Replacement Trippers                               | Order #P69 for 7 pairs of ON/OFF trippers  |          |                         |                 |                        |  |
| Replacement Motor                                  | #101 (120V) & #201 (208-277V). For "L" models order #36 (120V) and #46 (208-277V). |          |                         |                 |                        |  |

| TYPE                | VOLTAGE (VAC) | CONTACT RATING |
|---------------------|---------------|----------------|
| General Purpose     | 120 -277      | 40A            |
| Resistive           | 120 -277      | 40A            |
| Tungsten            | 120           | 40A            |
| Ballast             | 120-277       | 20A            |
| Pilot Duty          | 120 -277      | 1000VA         |
| Motor               | 120           | 2HP            |
|                     | 240           | 5HP            |
| 277VAC Single Phase |               |                |

# MECHANICAL

## 7 Day Time Switch with Photocontrol

### Exterior Lighting Control Centers

#### T900 Series



#### APPLICATIONS

- Parking lot lighting, HVAC, display lighting.
- Security lighting, lighted signage, storefront lighting.

#### FEATURES

- **Scheduling:**
  - Circuit 1:** ON automatically at dusk, OFF at individual preset times each day, including skipping days when desired Unit can be set to turn ON before dawn for early morning lighting.
  - Circuit 2:** ON at dusk, OFF at dawn automatically, daily.
  - Circuit 3:** Individual daily ON and OFF settings at desired times, including skipping any desired day or days Minimum ON is setting 1 hour with a minimum OFF setting of 2 hours. Minimum 8 hours between 2 OFF settings. 7 day calendar dial will accommodate up to 2 pairs of ON-OFF trippers per day – 7 pairs are supplied.
- **Skip-A-Day:** Omit operations on any day.
- **Manual By-Pass Switches:** Single pole, 20 Amps – one per circuit. Factory pre-wired to terminal strip. ON/OFF/AUTO positions for each circuit is independent – will not disturb automatic settings.
- **Reserve Power:** Standard feature on all models keep dial on time up to 24 hours during power outage.
- **Optional Enclosures:** Contact factory for available options and lead time.
- **Enclosed Motor:** Protects gears for extended life.
- **Note:** All models are designed to control a contactor circuit and are not recommended for direct switching of most lighting loads.

#### SPECIFICATIONS

- **Input Voltage:** 120VAC 60Hz
- **Timing Accuracy:** Line frequency.
- **Terminal Range:** #8 - #14AWG.
- **Operating Temperature:** -40° to 165°F (-40° to +74°C).
- **Power Consumption:** 5 watts maximum.
- **Enclosure:** Indoor NEMA 1 Metal with lockable hasp. (See Pages 464-465 For Dimensions).

#### WIRING DIAGRAMS

- See Pages 333-336 For Diagrams.

#### ACCESSORIES

- **2101:** See page 421.



| CAT. NO.                  | UPC CODE                             | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE      |
|---------------------------|--------------------------------------|-------------------------|-----------------|---------------------|
| T920L                     | 41033                                | 120                     | 2 SPDT          | Metal Indoor NEMA 1 |
| T930L                     | 41055                                | 120                     | 3 SPDT          | Metal Indoor NEMA 1 |
| Replacement Trippers      | #P69 for 7 pairs of ON/OFF trippers. |                         |                 |                     |
| Replacement Motor         | #36 (120V)                           |                         |                 |                     |
| Replacement Bypass Switch | #75210                               |                         |                 |                     |

| TYPE            | VOLTAGE (VAC) | CONTACT RATING |
|-----------------|---------------|----------------|
| General Purpose | 120/277       | 20A            |
| Motor           | 120           | 1HP            |
|                 | 240           | 2HP            |



# MECHANICAL

## 24 Hour Indoor Plug-In Timer

### 400B Series

#### FEATURES

- Repeat Schedule: Daily.
- Variable Timing: Multiple ON/OFF times.
- On/Off: Manual ON/TIMER switch.

#### APPLICATIONS

- Automatically turn ON/OFF items in the home.
- Control lamps, radios, televisions, appliances.
- Give the home a "lived in" look while away.
- Save energy and provide security.



| CAT. NO. | FIG. NO. | UPC CODE | VOLTAGE<br>VAC 50/60Hz | NO. OF<br>OUTLETS | TYPE OF PLUG | DESCRIPTION                | VARIABLE TIMING<br>SEGMENTS | RATING      |          |                             |       |
|----------|----------|----------|------------------------|-------------------|--------------|----------------------------|-----------------------------|-------------|----------|-----------------------------|-------|
|          |          |          |                        |                   |              |                            |                             | RESISTIVE   | TUNGSTEN | ELECTRONIC<br>BALLAST (LED) | MOTOR |
| 403B     | 1        | 16085    | 125                    | 1                 | Polarized    | Basic Lighting Timer       | 30 minute                   | 15A @ 1875W | 500W     | 500VA                       | 1/3HP |
| 402B     | 2        | 16091    | 125                    | 1                 | Grounded     | Heavy Duty 24 hour Timer   | 30 minute                   | 15A @ 1875W | 500W     | 500VA                       | 1/3HP |
| 405B     | 3        | 16094    | 125                    | 2                 | Grounded     | Two Outlet Automatic Timer | 30 minute                   | 15A @ 1875W | 500W     | 500VA                       | TV-4  |

NOTE: "▲" = Indicates outlet location.



# MECHANICAL

## 24 Hour Indoor Plug-In Timer

### SA100 Series

#### FEATURES

- Repeat Schedule: Daily.
- Variable Timing: Multiple ON/OFF times.
- On/Off: Manual ON/TIMER switch.

#### APPLICATIONS

- Automatically turn ON/OFF items in the home.
- Control lamps, radios, televisions, appliances.
- Give the home a "lived in" look while away.
- Save energy and provide security.



| CAT. NO. | FIG. NO. | UPC CODE | VOLTAGE<br>VAC 50/60Hz | NO. OF OUTLETS     | TYPE OF PLUG       | DESCRIPTION  | VARIABLE TIMING<br>SEGMENTS | RATING    |           |          |       |
|----------|----------|----------|------------------------|--------------------|--------------------|--|-----------------------------|-----------|-----------|----------|-------|
|          |          |          |                        |                    |                    |  |                             | RESISTIVE | INDUCTIVE | TUNGSTEN | MOTOR |
| SA011    | 1        | 16501    | 120                    | 1                  | Polarized          | Lamp Timer with LED night light                    | Two Pair of ON/OFF trippers | 15A       | 15A       | 1800W    | 1/2HP |
| SA100    | 2        | 16507    | 120                    | 1                  | Polarized          | Basic Timer with cover to hide dial                | 15 Minutes                  | 15A       | 15A       | 1800W    | 1/2HP |
| SA105    | 3        | 16510    | 120                    | 1 Timed, 1 Untimed | Polarized          | Table Top Timer for easy access with 6 foot cord   | 15 Minutes                  | 15A       | 15A       | 1800W    |       |
| SA110    | 4        | 16513    | 120                    | 1 Timed, 1 Untimed | Grounded Polarized | Heavy Duty Appliance Timer with cover to hide dial | 15 Minutes                  | 15A       | 15A       | 1800W    |       |

NOTE: "▲" = Indicates outlet location.



# MECHANICAL

## 24 Hour Indoor Plug-In Timer

600B & SA200 Series

### FEATURES

- Repeat Schedule: Daily.
- Variable Timing: Multiple ON/OFF times.
- Manual Switch: ON or TIMER mode.
- SA215:
  - Power Cord: 18" Length
  - Includes Ground Stake

### APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Multiple outlets for holiday lighting.



| CAT. NO. | FIG. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC<br>50/60Hz | NO. OF<br>OUTLETS    | TYPE<br>OF PLUG | DESCRIPTION               | VARIABLE<br>TIMING<br>SEGMENTS | RATING    |           |              |          |                                |       |
|----------|----------|---------------|----------|---------------------------|----------------------|-----------------|---------------------------|--------------------------------|-----------|-----------|--------------|----------|--------------------------------|-------|
|          |          |               |          |                           |                      |                 |                           |                                | RESISTIVE | INDUCTIVE | INCANDESCENT | TUNGSTEN | ELECTRONIC<br>BALLAST<br>(LED) | MOTOR |
| 602B     | 1        | cULus         | 16106    | 125                       | 2                    | Grounded        | Outdoor Lighting Timer    | 30 minutes                     | 15A       |           |              | 500W     | 500VA                          | 1/3HP |
| SA205    | 2        | cETLus        | 16534    | 125                       | 1 Timed<br>1 Untimed | Grounded        | Landscape Timer           | 15 Minutes                     | 15A       | 15A       | 1800W        | 1800W    |                                | 1/2HP |
| SA215    | 3        | cETLus        | 16540    | 125                       | 6                    | Grounded        | Holiday Décor Stake Timer | 30 minutes                     | 15A       |           |              | 1250W    |                                | 1/2HP |

NOTE: "▲" = Indicates outlet location.

# MECHANICAL

## Outdoor Photo Plug-In Timer

650B Series

### FEATURES

- Repeat Schedule: Daily.
- Variable Timing: Multiple ON/OFF times.
- Manual Switch: ON or TIMER mode.
- Power Cord: 6.5" length.

### APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Multiple outlets for holiday lighting.



| CAT. NO. | UPC CODE | VOLTAGE<br>VAC<br>50/60Hz | NO. OF<br>OUTLETS | TYPE<br>OF PLUG | DESCRIPTION                            | VARIABLE TIMING SEGMENTS                                    | GENERAL<br>PURPOSE | RATING    |          |                                |             |
|----------|----------|---------------------------|-------------------|-----------------|--|---|--------------------|-----------|----------|--------------------------------|-------------|
|          |          |                           |                   |                 |  |   |                    | RESISTIVE | TUNGSTEN | ELECTRONIC<br>BALLAST<br>(LED) | MOTOR       |
| 652B     | 16108    | 125                       | 2                 | Grounded        | Light Activated Outdoor Lighting Timer | Turns on at Dusk and countdown Off 2, 4, 6 or 8 hours later | 15A                | 15A       | 1000W    | 500VA                          | 1/3HP, TV-5 |

NOTE: "▲" = Indicates outlet location.

# MECHANICAL

## 24 Hour In-Wall Time Switch

### 711A Series



#### SPECIFICATIONS

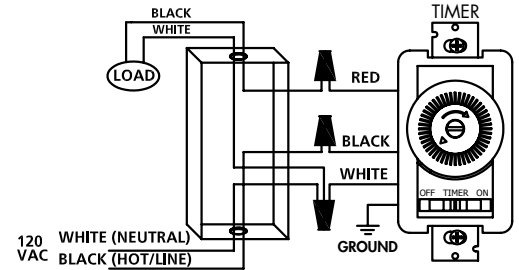
- Input Voltage: 125VAC
- Terminal Range: #14AWG.
- Operating Temperature: 32 °F to +104 °F (0 °C to +40 °C).

#### APPLICATIONS

- Porch or patio, doorway, pool.
- Outdoor security lighting.

#### FEATURES

- **Scheduling:** Minimum ON setting is 30 minutes. Dial has 48 captive trippers.
- **Bypass Switch:** Slide switch for ON, OFF, or TIMER (automatic) operation.
- **Vacation Mode:** Set timer OFF with no change of tripper settings.
- **Wiring:** Requires a neutral.
- **Clock Format:** AM/PM marked on dial.
- **Wall Plate:** Supplied with single gang wall plate.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | COLOR | GENERAL PURPOSE | RATING    |          |       |
|----------|----------|--------------------------|-------|-----------------|-----------|----------|-------|
|          |          |                          |       |                 | RESISTIVE | TUNGSTEN | MOTOR |
| 711A     | 10114    | 125                      | White | 15A             | 15A       | 1250W    | 1/2HP |

# MECHANICAL

## 24 Hour In-Wall Time Switch

### 701B Series



#### SPECIFICATIONS

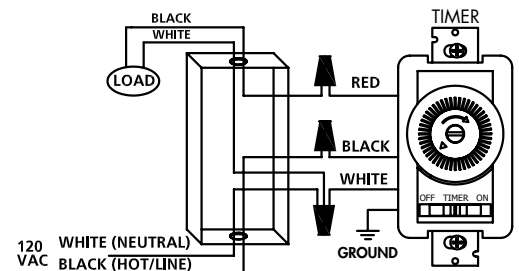
- Input Voltage: 125VAC, 60Hz
- Terminal Range: #14AWG.
- Operating Temperature: 32 °F to +104 °F (0 °C to +40 °C).

#### APPLICATIONS

- Porch or patio, interior lighting.
- Pool, entryway lighting.

#### FEATURES

- **Scheduling:** Minimum ON setting is 30 minutes. Dial has 48 captive trippers.
- **Flexible:** Removable dial allows installation in multi-gang boxes with decorator style wall plates.
- **Bypass Switch:** Slide switch for ON, OFF, or TIMER (automatic) operation.
- **Vacation Mode:** Set timer OFF with no change of tripper settings.
- **Wiring:** Requires a neutral.
- **Clock Format:** AM/PM marked on dial.
- **Wall Plate:** Supplied with single gang decorator wall plate.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60 Hz | COLOR | GENERAL PURPOSE | RESISTIVE | RATING   |                          | MOTOR |
|----------|----------|--------------------------|-------|-----------------|-----------|----------|--------------------------|-------|
|          |          |                          |       |                 |           | TUNGSTEN | ELECTRONIC BALLAST (LED) |       |
| 701B     | 10121    | 125                      | White | 20A             | 20A       | 1500W    | 500VA                    | 1HP   |

# MECHANICAL

## Auto OFF Springwound In-Wall Timer

### A500 Series



#### SPECIFICATIONS

- Input Voltage: 125/250/277VAC, 50/60Hz
- Terminal Range: #12AWG.
- Operating Temperature: 32 °F to +122 °F (0 °C to +50 °C).

#### APPLICATIONS

- Whole house fans, indoor/outdoor lighting.
- Bathroom fans and lights, self storage.

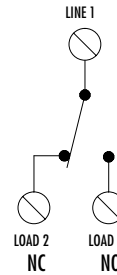
#### FEATURES

- **Variable Timing:** Twist knob for time ON setting. Time ON lengths from 15 minutes to 12 hour vary by model.
- **Hold Feature:** Some models have position for constant ON.
- **Easy-Set:** No adjustments. Just wire and go!
- **Easy Wiring:** No neutral required. Great for retrofit! Use as single or in multi-gang box with no de-rating.
- **Switch Type:** SPDT "2 in 1" contacts wire as SPST also. Can wire normally on and countdown while off.
- **Color:** Ivory, Light Almond, White.
- **Wall Plate:** Fits standard or decorator style wall plates, see below (not included).
- **Caution:** This timer is not to be used in precision timing applications where inaccurate timing could have dangerous consequences (i.e. sun lamp, sauna, etc.).

USE FOR SPST



USE FOR SPDT



| CAT. NO.                  | UPC CODE | HOLD FEATURE | COLOR        |
|---------------------------|----------|--------------|--------------|
| <b>15 Minutes Maximum</b> |          |              |              |
| A515MH                    | 15020    | With Hold    | Ivory        |
| A515MHW                   | 15120    |              | White        |
| A515M                     | 15013    | No Hold      | Ivory        |
| A515MW                    | 15113    |              | White        |
| A515MA                    | 15127    |              | Light Almond |
| <b>30 Minutes Maximum</b> |          |              |              |
| A530MH                    | 15021    | With Hold    | Ivory        |
| A530MHW                   | 15121    |              | White        |
| A530M                     | 15014    | No Hold      | Ivory        |
| A530MW                    | 15114    |              | White        |
| A530MA                    | 15128    |              | Light Almond |
| <b>60 Minutes Maximum</b> |          |              |              |
| A560MH                    | 15022    | With Hold    | Ivory        |
| A560MHW                   | 15122    |              | White        |
| A560M                     | 15015    | No Hold      | Ivory        |
| A560MW                    | 15115    |              | White        |
| <b>2 Hours Maximum</b>    |          |              |              |
| A502HHW                   | 15123    | With Hold    | White        |
| A502H                     | 15016    |              | Ivory        |
| A502HW                    | 15116    | No Hold      | White        |
| <b>6 Hours Maximum</b>    |          |              |              |
| A506HHW                   | 15125    | With Hold    | White        |
| A506H                     | 15018    |              | Ivory        |
| A506HW                    | 15118    | No Hold      | White        |
| <b>12 Hours Maximum</b>   |          |              |              |
| A512HH                    | 15026    | With Hold    | Ivory        |
| A512HHW                   | 15126    |              | White        |
| A512H                     | 15019    | No Hold      | Ivory        |
| A512HW                    | 15119    |              | White        |

| TYPE      | VOLTAGE (VAC) | RATINGS |
|-----------|---------------|---------|
| Resistive | 125           | 20A     |
|           | 250           | 10A     |
|           | 277           | 10A     |
| Inductive | 125           | 20A     |
|           | 250           | 10A     |
|           | 277           | 10A     |
| Tungsten  | 125           | 7A      |
| Motor     | 125           | 1HP     |
|           | 250           | 2HP     |

# MECHANICAL

## Commercial Auto OFF Springwound In-Wall Timer

### C500 Series



#### SPECIFICATIONS

- Input Voltage: 125/250/277VAC, 50/60Hz
- Terminal Range: #12AWG.
- Operating Temperature: 32 °F to +122 °F (0 °C to +50 °C).

#### APPLICATIONS

- Ventilating fans, HVAC, whirlpools.
- Self storage, motors, pumps.

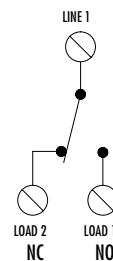
#### FEATURES

- **Variable Timing:** Twist knob for time ON setting. Time ON lengths from 15 minutes to 12 hour vary by model.
- **Hold Feature:** Some models have position for constant ON.
- **Easy-Set:** No adjustments. Just wire and go!
- **Easy Wiring:** No neutral required. Great for retrofit!
- **Switch Type:** SPDT "2 in 1" contacts wire as SPST also, except C460M and C412H are DPST. Can wire normally on and countdown while off.
- **Color:** Metal-brushed aluminum.
- **Wall Plate:** Includes real metal wall plate with screw mounting, to add extra security for commercial applications.
- **Caution:** This timer is not to be used in precision timing applications where inaccurate timing could have dangerous consequences (i.e. sun lamp, sauna, etc.).

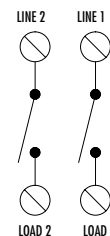
#### USE FOR SPST



#### USE FOR SPDT



#### USE FOR DPST



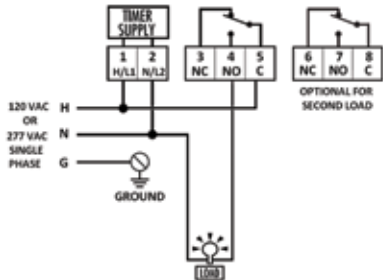
| CAT. NO.           | UPC CODE | HOLD FEATURE                 |
|--------------------|----------|------------------------------|
| 15 Minutes Maximum |          |                              |
| C515M              | 15501    | No Hold                      |
| 30 Minutes Maximum |          |                              |
| C530M              | 15503    | No Hold                      |
| 60 Minutes Maximum |          |                              |
| C560M              | 15505    | No Hold                      |
| C560MH             | 15506    | With Hold                    |
| C460M*             | 15011    | No Hold (*DPST Switch type.) |
| 2 Hours Maximum    |          |                              |
| C502H              | 15507    | No Hold                      |
| 6 Hours Maximum    |          |                              |
| C506H              | 15511    | No Hold                      |
| 12 Hours Maximum   |          |                              |
| C512H              | 15513    | No Hold                      |
| C512HH             | 15514    | With Hold                    |
| C412H*             | 15010    | No Hold                      |

| TYPE      | VOLTAGE (VAC) | RATINGS |
|-----------|---------------|---------|
| Resistive | 125           | 20A     |
|           | 250           | 10A     |
|           | 277           | 10A     |
| Inductive | 125           | 20A     |
|           | 250           | 10A     |
|           | 277           | 10A     |
| Tungsten  | 125           | 7A      |
| Motor     | 125           | 1HP     |
|           | 250           | 2HP     |

# MECHANICAL Wiring Diagrams

TU40 Series

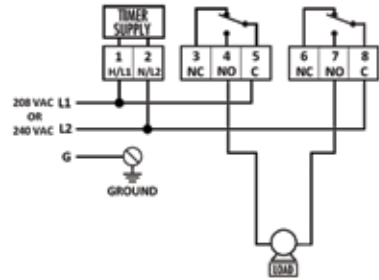
TYPICAL SPST WIRING - LOAD SAME VOLTAGE AS TIMER SUPPLY



CONNECT LINE VOLTAGE (H) TO TERMINAL 5

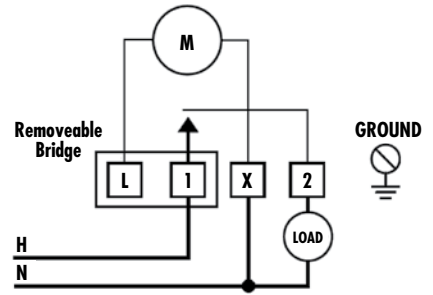
TU40 Series

TYPICAL DPST WIRING - LOAD SAME VOLTAGE AS TIMER SUPPLY



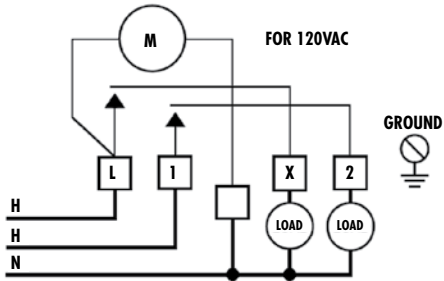
CONNECT LINE VOLTAGE (L1) TO TERMINAL 5  
CONNECT LINE VOLTAGE (L2) TO TERMINAL 8

1101/1102

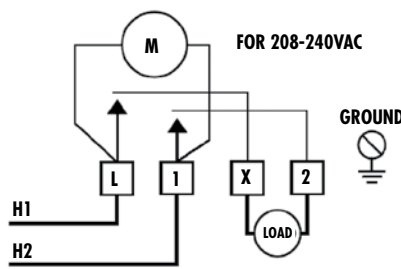


For separate motor terminals remove bridge from terminal L&1.

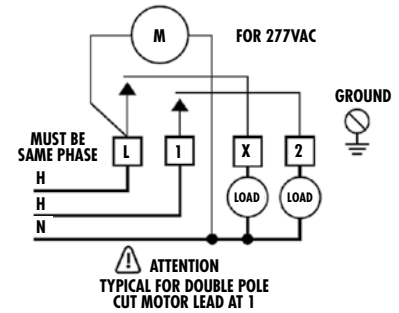
1103



1104

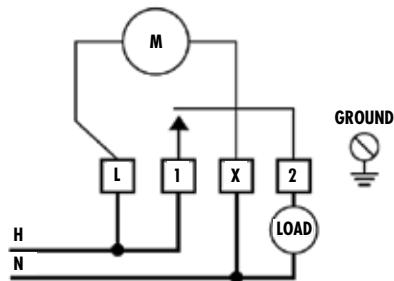


1104

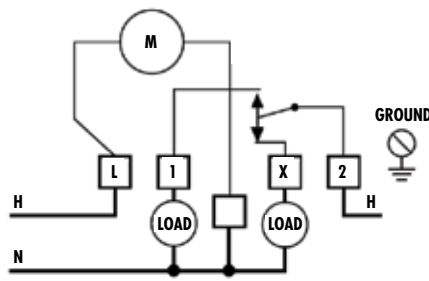


⚠ ATTENTION  
TYPICAL FOR DOUBLE POLE  
CUT MOTOR LEAD AT 1

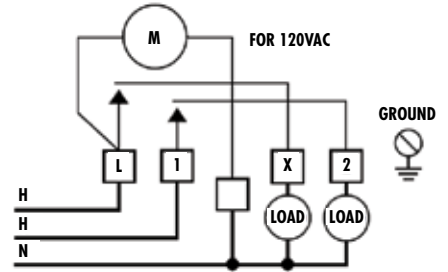
7100/7102



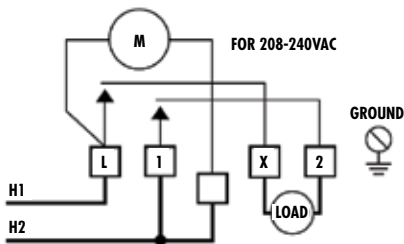
7120/7122



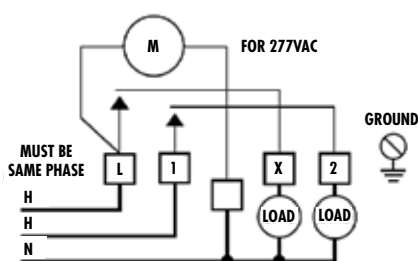
7200



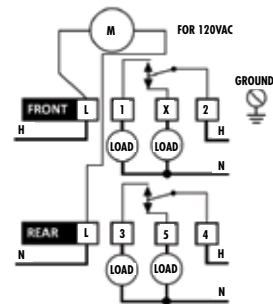
7202



7202

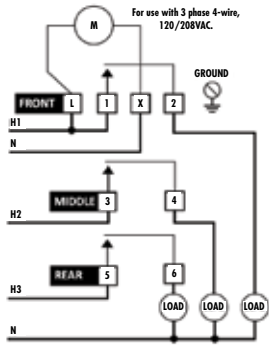


7220

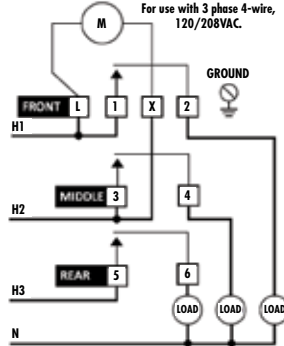


# MECHANICAL Wiring Diagrams

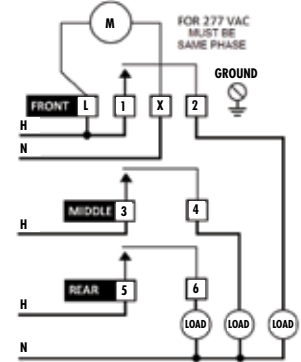
7300



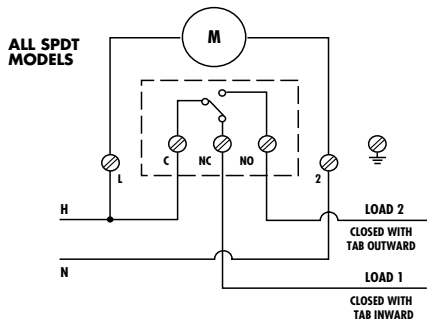
7302



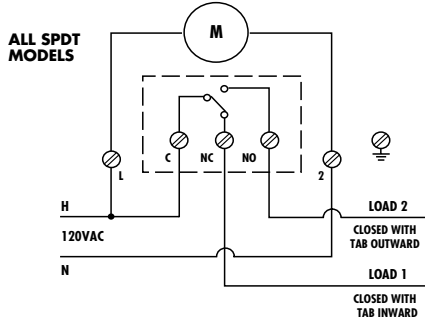
7302



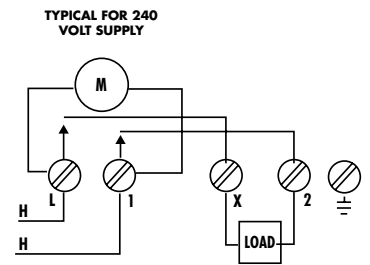
8000 Series Duty Cycle



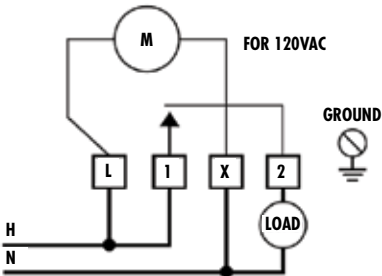
8000 Series Repeating Variable Cycle



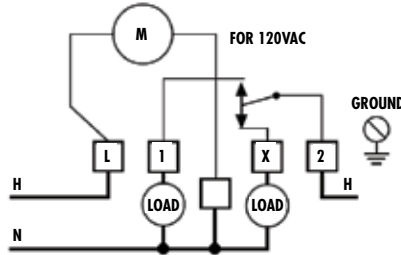
WH2B



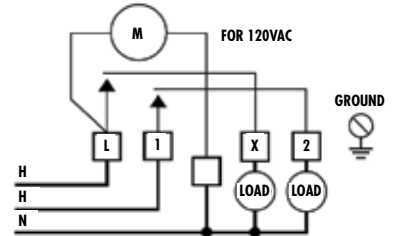
W100



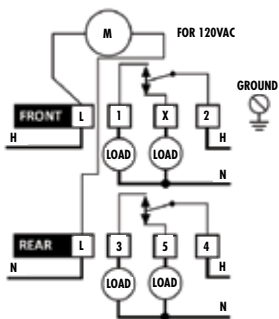
W120



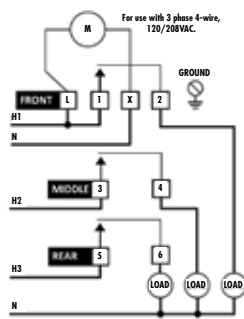
W200



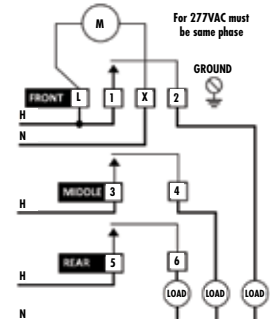
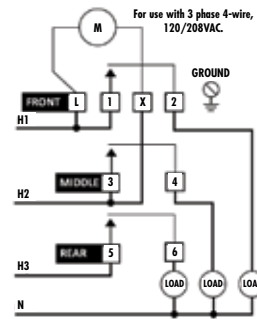
W220



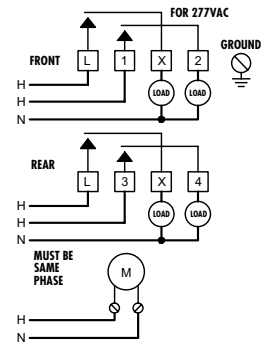
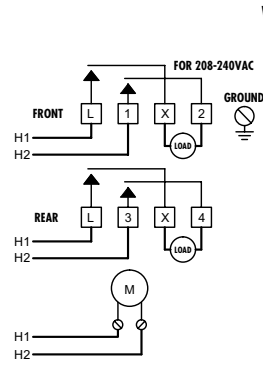
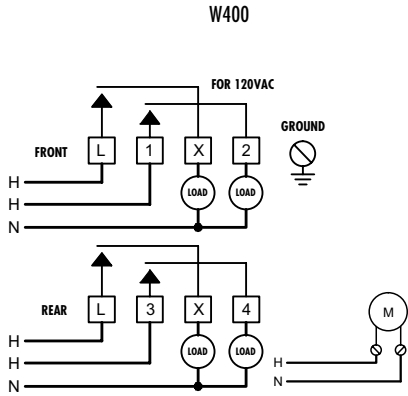
W300



W302

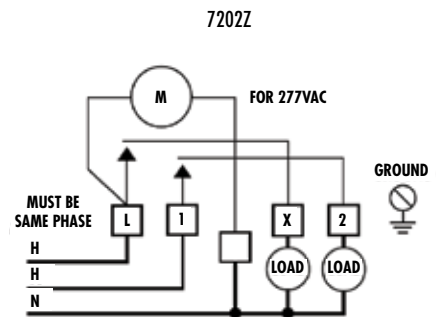
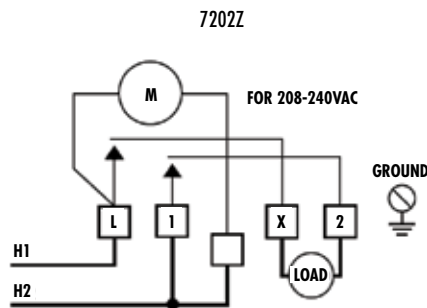
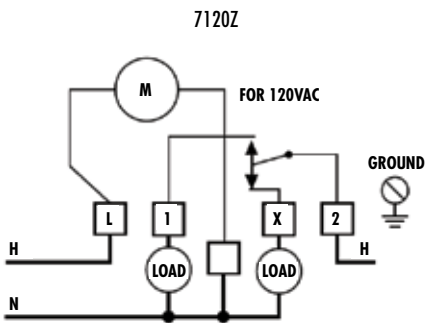
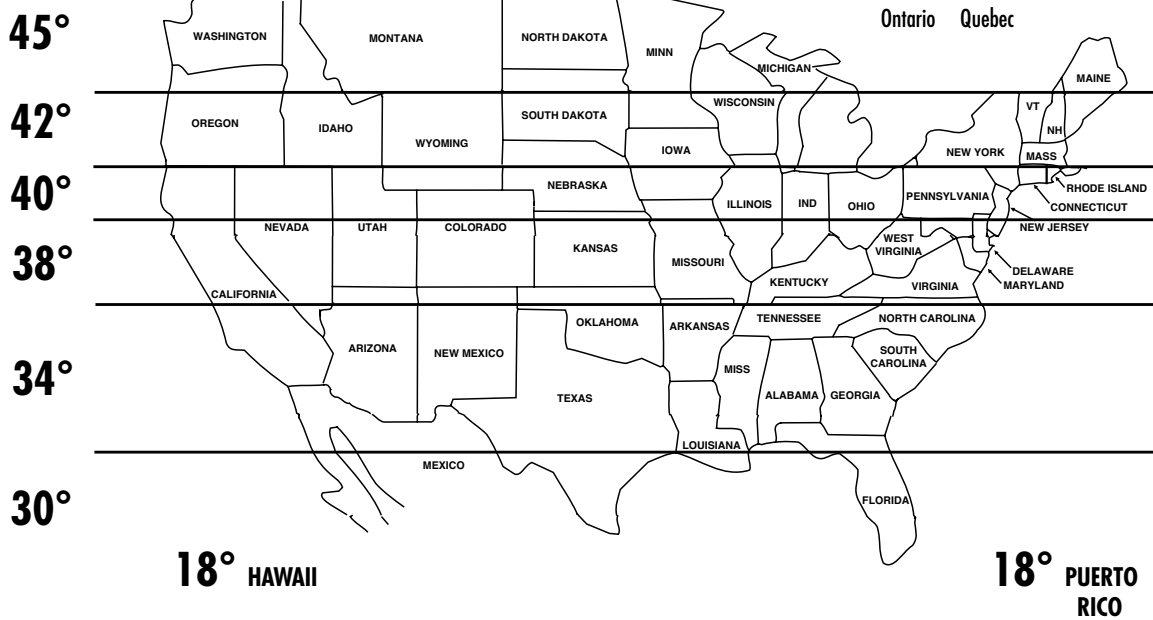


# MECHANICAL Wiring Diagrams



## ASTRONOMIC LATITUDE ZONES

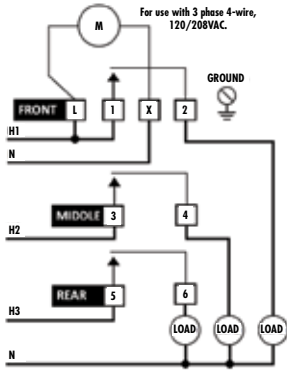
British Columbia Alberta Saskatchewan Manitoba



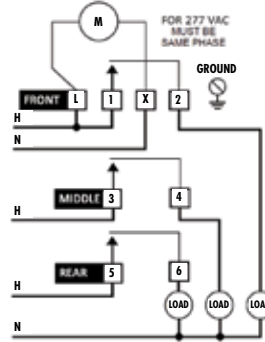
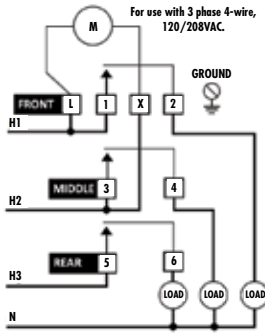


# MECHANICAL Wiring Diagrams

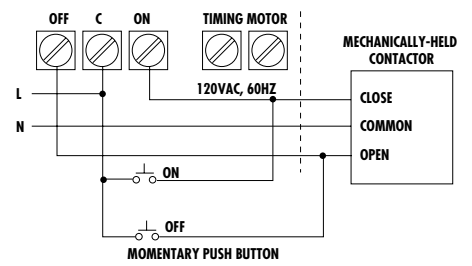
7300Z



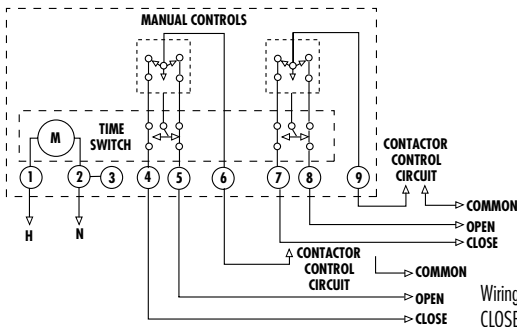
7302Z



1800 Series

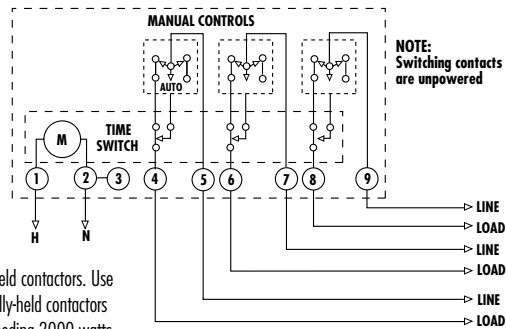


TZ/TW220L



Wiring shown is for mechanically-held contactors. Use CLOSE terminal only for magnetically-held contactors and to control direct loads not exceeding 2000 watts.

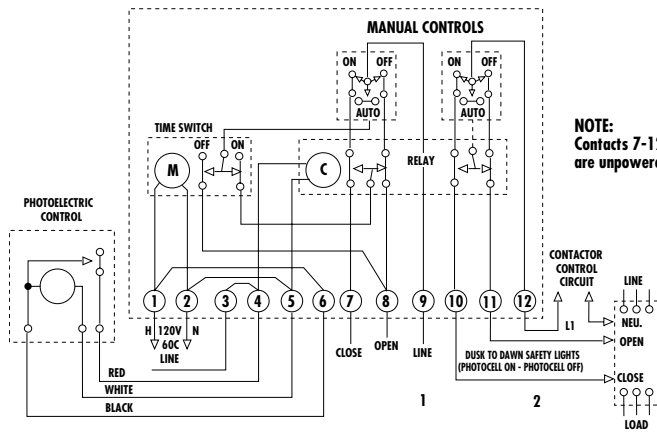
TZ/TW300L



When single line source is used, jumper terminals 1-5-7-9 and connect all commons to terminals 2 and 3.

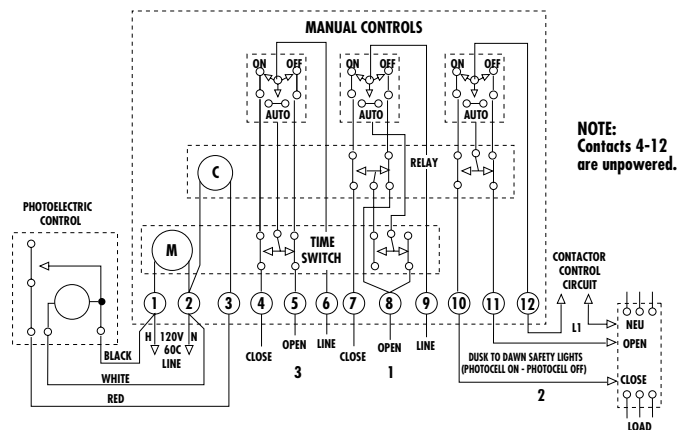
T920L

ONLY CIRCUITS 1 AND 2 ARE INCLUDED IN T920L



T930L

ALL 3 CIRCUITS ARE INCLUDED IN T930L



NOTE 1: All models designed to control mechanically-held and magnetic contactors, when wired in accordance with manufacturers recommendations. Contacts are unpowered control circuits rated for 24-277V contactor coils. See notes on wiring schematics.

NOTE 2: For momentary Contact of contactor coils, use TORC Model SMC-3D, in our Digital Controls Catalog.






**TORK® DIGITAL**




r to this  
must be  
insulator

rique ou à son  
ment


# DIGITAL TIMERS QUICK REFERENCE GUIDE

|  | DTU40<br>DTWH40      | EH20C                 | SA300          | E-PB                  | E                     | EW                    | EWZ                   | DG                    | DGM                   | DWZ                   | DTS                   |
|--|----------------------|-----------------------|----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Page No.   | 355                  | 356                   | 357            | 358                   | 358                   | 359                   | 360                   | 362                   | 362                   | 363                   | 364                   |
| Number of Channels   | 1                    | 1                     | 1              | 1                     | 1 or 2                | 1 or 2                | 1 or 2                | 1 or 2                | 1                     | 1 or 2                | 1, 2 or 4             |
| ON/OFF Set Points  | 7 pair               | 14                    | 1 pair         | 20                    | 20                    | 20                    | 20                    | 56                    | 56                    | 99                    | 99                    |
| 365 Day/7 Day Scheduling   | 7 day                | 7 day                 | 7 day          | 24 hour               | 24 hour               | 7 day                 | 7 day                 | 7/365 day             | 7/365 day             | 7/365 day             | 7/365 day             |
| Automatic Daylight Savings Adjustment  | Manual               | Yes                   | Manual         | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   |
| Leap Year  |                      | Yes                   |                | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   |
| Individual Holiday Schedules   |                      |                       |                |                       |                       |                       |                       |                       |                       | 24                    | 24                    |
| Block Holiday  |                      | Yes                   |                |                       |                       |                       | 20<br>EWZ201C         | 9                     | 9                     |                       |                       |
| Season Scheduling  |                      |                       |                |                       |                       |                       |                       |                       |                       |                       | 4                     |
|  (Astronomic) |                      |                       | ZipSet         |                       |                       |                       | Yes                   |                       |                       | Yes                   |                       |
| Photosensor Input  |                      |                       |                |                       |                       |                       |                       |                       |                       |                       |                       |
| Remote Override Input  |                      |                       |                |                       |                       |                       |                       |                       |                       |                       |                       |
| Signal/Pulse Duration  |                      |                       |                |                       |                       |                       |                       |                       |                       |                       | Yes                   |
| Momentary for Contactors   |                      |                       |                |                       | Option                | Option                | Option                |                       | Yes                   |                       |                       |
| Duty Cycle   |                      |                       |                |                       |                       |                       |                       |                       |                       |                       |                       |
| 31 Day Cycle   |                      |                       |                |                       |                       |                       |                       |                       |                       |                       |                       |
| Manual Override  | Yes                  | Yes                   | Yes            | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   |
| Clock Format   | AM/PM                | AM/PM                 | AM/PM          | AM/PM                 | AM/PM                 | AM/PM                 | AM/PM                 | 12/24                 | 12/24                 | 12/24                 | 12/24                 |
| Power Outage Backup  | Rechargeable Battery | 4 day Super Capacitor | Battery        | 4 day Super Capacitor | 4 day Super Capacitor | 4 day Super Capacitor | 4 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor |
| Schedule Retention without power   | Battery              | Permanent             | Battery        | Permanent             | Permanent             | Permanent             | Permanent             | Permanent             | Permanent             | Permanent             | Permanent             |
| Staggered Start  |                      |                       |                |                       | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   |                       | Yes                   |
| Memory Module  |                      |                       |                |                       |                       |                       |                       |                       |                       |                       |                       |
| Computer Programming Software  |                      |                       |                |                       |                       |                       |                       |                       |                       |                       |                       |
| Output Contacts: Amps Resistive or General Purpose   | 40A                  | 40A                   | 40A            | 30A                   | 40A                   | 40A                   | 40A                   | 20A                   | 20A                   | 30A                   | 30A                   |
| Contact Type: Dry Unpowered  | Yes                  | Yes                   | No             | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   | Yes                   |
| Voltage Input AC   | 120/208-240/277      | 120-277               | 120 or 120/277 | 120                   | 120-277               | 120-277               | 120-277               | 120-277               | 120-277               | 120/208-240/277       | 120/208-240/277       |
| Other Voltage Inputs Available   |                      |                       |                |                       |                       |                       |                       |                       |                       |                       |                       |


# DIGITAL TIMERS QUICK REFERENCE GUIDE

|   | LIGHTING CONTROLS     |                       |                                   |                       |                       |                       | CYCLE - SIGNAL TIMER |                       |                       |                     |
|---|-----------------------|-----------------------|-----------------------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|---------------------|
|   | DZS                   | DZM                   | ELC74/78/712                      | DGU                   | DGUM                  | DGLC                  | DLC400               | DG                    | DGS                   | DIN                 |
| Page No.  | 365                   | 366                   | 369                               | 368                   | 368                   | 368                   | 370                  | 372                   | 372                   | 376                 |
| Number of Channels  | 1, 2, or 4            | 2                     | 4, 8, or 12                       | 1                     | 1                     | 1 or 2                | 4                    | 1 or 2                | 1                     | 1 or 2              |
| ON/OFF Set Points   | 99                    | 99                    | 128                               | 56                    | 56                    | 56                    | 99                   | 56                    | 56                    | 8 pair<br>3 pair/ch |
| 365 Day/7 Day Scheduling  | 7/365 day             | 7/365 day             | 7/365 day                         | 7/365 day             | 7/365 day             | 7/365 day             | 7/365 day            | 24 Hour               | 7 Day                 | 7 Day               |
| Automatic Daylight Savings Adjustment   | Yes                   | Yes                   | Yes                               | Yes                   | Yes                   | Yes                   | Yes                  | Yes                   | Yes                   |                     |
| Leap Year   | Yes                   | Yes                   | Yes                               | Yes                   | Yes                   | Yes                   | Yes                  | Yes                   | Yes                   |                     |
| Individual Holiday Schedules  | 24                    | 24                    | 26                                |                       |                       |                       | 24                   |                       |                       |                     |
| Block Holiday   |                       |                       | 10                                | 9                     | 9                     | 9                     |                      |                       |                       |                     |
| Season Scheduling   | 4                     | 4                     |                                   |                       |                       |                       | 4                    |                       |                       |                     |
|  SunSet (Astronomic) | Yes                   | Yes                   | Yes                               | Yes                   | Yes                   | Yes                   | Yes                  |                       |                       |                     |
| Photosensor Input   |                       |                       | Yes                               | Yes                   | Yes                   | Yes                   | Yes                  |                       |                       |                     |
| Remote Override Input   |                       |                       | Yes                               | Yes                   | Yes                   | Yes                   | Yes                  |                       |                       |                     |
| Signal/Pulse Duration   | Yes                   |                       | Yes                               |                       |                       |                       |                      | Yes                   | Yes                   |                     |
| Momentary for Contactors  |                       | Yes                   | Yes                               |                       | Yes                   |                       |                      |                       |                       |                     |
| Duty Cycle  |                       |                       | Yes                               |                       |                       |                       |                      | Yes                   | Yes                   |                     |
| 31 Day Cycle  |                       |                       |                                   |                       |                       |                       |                      | Yes                   |                       |                     |
| Manual Override   | Yes                   | Yes                   | Yes                               | Yes                   | Yes                   | Yes                   | Yes                  | Yes                   | Yes                   | Yes                 |
| Clock Format  | 12/24                 | 12/24                 | 12/24                             | 12/24                 | 12/24                 | 12/24                 | 12/24                | 12/24                 | 12/24                 | AM/PM               |
| Power Outage Backup   | 7 day Super Capacitor | 7 day Super Capacitor | 2 day Capacitor<br>1 year battery | 7 day Super Capacitor | 7 day Super Capacitor | 7 day Super Capacitor | 6 month battery      | 7 day Super Capacitor | 7 day Super Capacitor | 8 year battery      |
| Schedule Retention without power  | Permanent             | Permanent             | Battery                           | Permanent             | Permanent             | Permanent             | Permanent            | Permanent             | Permanent             | Battery             |
| Staggered Start   | Yes                   | Yes                   | Yes                               | Yes                   | Yes                   | Yes                   | Yes                  | Yes                   | Yes                   |                     |
| Memory Module   | Yes                   | Yes                   |                                   |                       |                       |                       | Yes                  |                       |                       |                     |
| Computer Programming Software   | Yes                   | Yes                   |                                   |                       |                       |                       | Yes                  |                       |                       |                     |
| Output Contacts: Amps Resistive or General Purpose  | 30A/20A               | 30A                   | 20A                               | 20A                   | 20A                   | 20A                   | 30A                  | 20A                   | 20A                   | 16A                 |
| Contact Type: Dry Unpowered   | Yes                   | Yes                   | Yes                               | Yes                   | Yes                   | Yes                   | Yes                  | Yes                   | Yes                   | Yes                 |
| Voltage Input AC  | 120/208-240/277       | 120/208-240/277       | 24/120/208<br>240/277             | 120-277               | 120-277               | 120-277               | 120/208-240/277      | 120-277               | 120-277               | 120                 |
| Other Voltage Inputs Available  | 12VDC 24VAC           |                       | 24VAC All Models                  |                       |                       |                       |                      |                       |                       |                     |

# IN-WALL TIMERS QUICK REFERENCE GUIDE

| DIGITAL TIMERS  |     | SS700Z               | SS721Z               | SS720A        | SS720Z               | SAT70            |
|---|-----|----------------------|----------------------|---------------|----------------------|------------------|
| Page No.  |     | 386                  | 385                  | 387           | 387                  | 384              |
| Timer Type  |     | SunSet 7 Day Digital | SunSet 7 Day Digital | 7 Day Digital | SunSet 7 Day Digital | Zip-Set™ Digital |
| Voltage   |     | 120/277              | 120/277              | 120           | 120                  | 120              |
| Minimum Settings  | ON  | 1 min.               | 1 min.               | 1 min.        | 1 min.               | 1 min.           |
|   | OFF | 1 min.               | 1 min.               | 1 min.        | 1 min.               | 1 min.           |
| Manual Override   |     | Yes                  | Yes                  | Yes           | Yes                  | Yes              |
|  |     | Yes                  | Yes                  |               | Yes                  | ZipSet           |
| ON/OFF Set Points   |     | 10 Pair              | 10 Pair              | 7 Pair        | 7 Pair               | 1 Pair           |
| Flash Warning   |     |                      |                      |               |                      |                  |
| Audible Warning   |     |                      |                      |               |                      |                  |
| Power Outage Backup   |     | Capacitor            | Capacitor            | Battery       | Battery              | Battery          |
| Switch Type   |     | SPST                 | SPST                 | SPST          | SPST                 | SPST             |
| Resistive Ratings   |     | 15A                  | 16A                  | 15A           | 15A                  | 15A              |
| LED Ratings   |     | 8A                   | 10A                  |               |                      |                  |
| Neutral Required for Wiring   |     | No                   | Yes                  | Yes           | Yes                  | Yes              |
| 3-Way Wiring  |     | Yes                  | Yes                  | No            | No                   | No               |

# IN-WALL TIMERS QUICK REFERENCE GUIDE

| DIGITAL TIMERS  |     | SS403            | SS423            | SS410            | SS                  | D1060 D212           | SS903             |
|---|-----|------------------|------------------|------------------|---------------------|----------------------|-------------------|
| Page No.  |     | 388              | 388              | 388              | 389                 | 390                  | 404               |
| Timer Type  |     | Auto OFF Digital | Auto OFF Digital | Auto OFF Digital | Auto OFF Electronic | Auto OFF Electronic  | Code Switch       |
| Voltage   |     | 120/277          | 120/277          | 24               | 24/120/208-240/277  | 120                  | 120/277           |
| Minimum Settings  | ON  | 5 min. - 24 hr.  | 5 min. - 24 hr.  | 5 min. - 24 hr.  | 1 min. - 18 hr.     | 10-60 min., 2-12 hr. | 1 min.            |
|   | OFF | 5 min.           | 5 min.           | 5 min.           | 1 min.              | 10 min.              | 1 min.            |
| Manual Override   |     |                  |                  |                  |                     |                      | Yes               |
|  |     |                  |                  |                  |                     |                      |                   |
| ON/OFF Set Points   |     |                  |                  |                  |                     |                      | 10 pair           |
| Flash Warning   |     | Yes              | Yes              | Yes              | Yes                 |                      | Yes               |
| Audible Warning   |     | Yes              | Yes              | Yes              | Yes                 |                      |                   |
| Power Outage Backup   |     |                  |                  |                  |                     |                      | Capacitor         |
| Switch Type   |     | SPST             | SPST             | SPDT             | SPST or SPDT        | SPST                 | SPST or Momentary |
| Resistive Ratings   |     | 15A              | 15A              | 1A               | 4A or 7.5A          | 15A                  | 15A               |
| LED Ratings   |     | 1200W            | 1200W            |                  |                     |                      | 8A                |
| Neutral Required for Wiring   |     | No               | Yes              | Yes              | No                  | Yes                  | No                |
| 3-Way Wiring  |     | Yes              | Yes              | Yes              | SS13<br>Yes         | No                   | Yes               |



# DIGITAL 7 Day Time Switch

## Universal Multi-Voltage & Water Heater Control DT Series



### APPLICATIONS

#### DTU40

- Pumps, motors, fans.
- Signs and lighting.
- Water heaters.
- Heating and air conditioning.

#### DTWH40

- Water Heaters.
- This timer turns OFF when rates are high and turns OFF when no one is home.

### FEATURES

- **Scheduling:** 7 On & Off Pairs Of Set Points For Individual Programs On Each Day Of The Week. Minimum Setting Is 1 Minute.
- **Daylight Saving:** Manual Button Push For One Hour Adjustment.
- **Manual Override:** Until The Next Regularly Scheduled On Or Off, Automatic Operation Then Resumes.
- **External Manual Override:** DTWH40 Only On Clear Door. Override Without Opening Case.
- **Random Mode:** Varies On And Off Times To Create "Lived-In" Look When Away.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Battery Retains Time And Schedule.
- **Standards:** Listed UL60730 (Formerly UL917).

### SPECIFICATIONS

- **Input Voltage:** 120/208-240/277 VAC, 50/60 Hz (Auto Detection). DTWH40 Is 120/240VAC 50/60Hz (Auto Detection).
- **Terminal Range:** #8 - #18AWG.
- **Operating Temperature:** -31 °F To 116 °F (-35 °C To +47 °C).
- **Power Consumption:** 6Va Max.
- **Enclosure:** DTU40 Polycarbonate Indoor/Outdoor Nema 3R. DTWH40 Polycarbonate Indoor Nema 1 Enclosure With Clear Cover. Both With Lockable Hasp. (See Pages 464-468 For Dimensions).

### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|----------|----------|----------------------------|-----------------|--------------------------|
| DTU40    | 24004    | 120/208-240/277            | 1               | DPDT                     |
| DTWH40   | 24005    | 120/240                    | 1               | DPDT                     |

| TYPE            | VOLTAGE (VAC) | RATING          |                   |
|-----------------|---------------|-----------------|-------------------|
|                 |               | NO              | NC                |
| Resistive       | 120-277       | 40A             | 30A               |
| Inductive       | 120-277       | 30A             | 15A               |
| Ballast         | 120           | 30A             | 10A               |
|                 | 277           | 20A             | 10A               |
| Tungsten        | 120           | 15A             |                   |
| Motor           | 120           | 1HP/30FLA/90LRA | 1/4HP/12FLA/30LRA |
|                 | 240           | 2HP/20FLA/60LRA | 1/2HP/12FLA/33LRA |
| Pilot duty      | 120           | 720VA           | 290VA             |
|                 | 240           | 720VA           | 260VA             |
| Resistive       | 28VDC         | 20A             |                   |
| Max above 104°F | 120-277       | 30A             |                   |

# DIGITAL 7 Day Time Switch

## Water Heater Control with Summer Load Shed EH20C



### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120-277VAC, 50/60Hz (automatic detection).
- **Terminal Range:** #8 - #16AWG.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:** Indoor/Outdoor NEMA 3R Polycarbonate with locking hasp. (See Pages 464-468 For Dimensions).

### APPLICATIONS

- Electric water heater timers for residential or commercial.

### FEATURES

- **Pre-Programmed:** Unit preset for daily OFF time from 12:00am to 4:00am daily.
- **Summer Load Shed:** Additional OFF time from 3:00pm to 7:00pm during Summer time (6/1 to 9/30) annually to avoid peak usage.
- **Scheduling:** Additional 14 ON or OFF set points for individual programs for each day of the week. Minimum setting 1 minute.
- **Holiday Schedule:** Extend to the load shed date throughout the year or preset extra load shed schedules while on vacation.
- **Manual Override:** Until the next regularly scheduled ON or OFF. Override during pre-programmed times limited to 60 minutes per day.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Lithium battery. Non-rechargeable with 8 year expected life.
- **Standards:** Listed UL917.

### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50-60Hz | OUTPUT CONTACTS |
|----------|----------|----------------------------|-----------------|
| EH20C    | 82314    | 120-277                    | DPST            |

| TYPE            | VOLTAGE (VAC) | RATING  |
|-----------------|---------------|---------|
| General Purpose | 120-277       | 40A     |
| Inductive       | 120-277       | 40A     |
| Ballast         | 120-277       | 720VA   |
| Motor           | 120           | 1HP     |
|                 | 208           | 1 1/2HP |
|                 | 240-277       | 2HP     |

# DIGITAL Zip-Set™ Time Switch

## Astronomic Digital Control

### SA300 Series



#### SPECIFICATIONS

- **Input Voltage:** 120VAC, 60Hz  
- SA400 120/277VAC, 60Hz
- **Terminal Range:** #8 - #16AWG.
- **Operating Temperature:** 32 °F to +100 °F (0 °C to +37 °C).
- **Power Consumption:** 5VA Max.
- **Enclosure:** Indoor Metal with locking hasp.  
SA400 Outdoor Metal with locking hasp.  
(See Pages 464-468 For Dimensions).

#### APPLICATIONS

- Outdoor lighting.
- Electric motors.
- Indoor lighting or signs.

#### FEATURES

- **Zip-Set:** Fast and easy. Just enter area code and timer adjusts to your time with preset program of Sunset ON and time off program.
- **Scheduling:** One On/Off set point pair is active at a time. Only one schedule may be active at a time: Schedule 1, Schedule 2, a combination of 1 & 2, or ZipSet™. Day combinations for 7-5-2 speed programming.
- **Manual Daylight Saving:** Simple switch adjustment.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Random Feature:** Varies on time +/-90 minutes each day for lived in look.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Replaceable batteries

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50-60Hz | OUTPUT CONTACTS |
|----------|----------|----------------------------|-----------------|
| SA300    | 16546    | 120                        | SPST            |
| SA306    | 16549    | 120                        | DPST            |
| SA400    | 16552    | 120/277                    | SPST            |

| TYPE         | VOLTAGE (VAC) 60Hz | RATING  |
|--------------|--------------------|---------|
| Resistive    | 120*               | 40A     |
| Inductive    | 120*               | 40A     |
| Tungsten     | 120*               | 40A     |
| Incandescent | 120*               | 40A     |
| Motor        | 120                | 1 1/2HP |
| *SA400       | 120/277            |         |

# DIGITAL 24 Hour Time Switch Multipurpose Control E & E-PB Series



## APPLICATIONS

- Signs, air conditioning, lighting.
- Sump pumps, ventilating fans.

## FEATURES

- **Scheduling:** 20 ON/OFF set points repeat each day. Minimum setting 1 minute.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.
- **Momentary Option:** For mechanically held contractors: Model E201B only. Configure with simple jumper change for single-channel momentary operation.
- **Standards:** Listed UL917
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

## SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:**
  - E Series: 120-277VAC, 50/60Hz (automatic detection)
  - E-PB Series: 120VAC, 50/60Hz
- **Terminal Range:** #8 - #16AWG.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:** Polycarbonate Indoor/Outdoor NEMA 3R is standard with lockable hasp. (See Pages 464-468 For Dimensions).

## WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|----------|----------|----------------------------|-----------------|--------------------------|
| E101B    | 82401    | 120-277                    | 1               | SPST                     |
| E103B    | 82411    | 120-277                    | 1               | DPST                     |
| E120B    | 82406    | 120-277                    | 1               | SPDT                     |
| E201B    | 82466    | 120-277                    | 2               | SPST                     |
| E101PB   | 82461    | 120                        | 1               | SPST                     |

| TYPE                     | E101B, E103B, E201B |           | E120B     |         | E101PB        |           |
|--------------------------|---------------------|-----------|-----------|---------|---------------|-----------|
|                          | VOLTAGE (VAC)       | RATING NO | RATING NO | NC      | VOLTAGE (VAC) | RATING NO |
| General Purpose          | 120-277             | 40A       | 30A       | 30A     | 120/240       | 30A       |
|                          |                     |           |           |         | 277           | 12A       |
| Inductive                | 120-277             | 40A       | 30A       | 30A     | 120/240       | 30A       |
|                          |                     |           |           |         | 277           | 12A       |
| Ballast                  | 120                 | 30A       | 30A       | 10A     | 120           | 20A       |
|                          | 208-277             | 20A       | 20A       | 10A     | 277           | 6A        |
| Tungsten                 | 120                 | 15A       | 15A       | 2A      | 120           | 5A        |
| Pilot Duty               | 120-277             | 720VA     | 720VA     | 720VA   | 120-240       | 470VA     |
|                          |                     |           |           |         | 277           | 690VA     |
| Motor                    | 120                 | 1HP       | 1HP       | 1HP     | 120           | 1HP       |
|                          | 208                 | 1 1/2HP   | 1 1/2HP   | 1 1/2HP | 240           | 2HP       |
|                          | 240-277             | 2HP       | 2HP       | 2HP     | —             | —         |
| Resistive                | 28VDC               | 30A       | 30A       | 30A     | 28VDC         | 20A       |
| Electronic Ballast (LED) | 277                 | 16A       | 16A       | —       | 277           | 16A       |

# DIGITAL 24 Hour or 7 Day Time Switch

## Multipurpose Control EW Series



### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120-277VAC, 50/60Hz (automatic detection)
- **Terminal Range:** #8 - #16AWG.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:**
  - Polycarbonate Indoor/Outdoor NEMA 3R.
  - Suffix -C plastic clear cover Indoor/Outdoor NEMA 3R.
  - Suffix -Y metal Indoor enclosure NEMA 1.
  - All with lockable hasp. (See Pages 464-468 For Dimensions).

### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

### APPLICATIONS

- Outdoor signs.
- Lighting security.
- Heating and air conditioning.

### FEATURES

- **Scheduling:** 20 ON & OFF set points for individual programs for each day of the week. Minimum setting is 1 minute.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.
- **Momentary Option:** For mechanically held contractors: Model EW201B only. Configure with simple jumper change for single-channel momentary operation.
- **Standards:** Listed UL917
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT DRY CONTACTS |
|----------|----------|----------------------------|-----------------|---------------------|
| EW101B   | 82431    | 120-277                    | 1               | SPST                |
| EW103B   | 82441    | 120-277                    | 1               | DPST                |
| EW120B   | 82436    | 120-277                    | 1               | SPDT                |
| EW201B   | 82467    | 120-277                    | 2               | SPST                |
| EW101B-Y | 82249    | 120-277                    | 1               | SPST                |
| EW103B-C | 82253    | 120-277                    | 1               | DPST                |
| EW103B-Y | 82255    | 120-277                    | 1               | DPST                |
| EW120B-C | 82437    | 120-277                    | 1               | SPDT                |
| EW120B-Y | 82261    | 120-277                    | 1               | SPDT                |
| EW201B-Y | 82299    | 120-277                    | 2               | SPST                |

| TYPE                     | EW101B, EW103B, EW201B |           | EW120B        |         |           |
|--------------------------|------------------------|-----------|---------------|---------|-----------|
|                          | VOLTAGE (VAC)          | RATING NO | VOLTAGE (VAC) | NO      | RATING NC |
| General Purpose          | 120-277                | 40A       | 120-277       | 30A     | 30A       |
| Inductive                | 120-277                | 40A       | 120-277       | 30A     | 30A       |
| Ballast                  | 120                    | 30A       | 120           | 30A     | 10A       |
|                          | 208-277                | 20A       | 208-277       | 20A     | 10A       |
| Tungsten                 | 120                    | 15A       | 120           | 15A     | 2A        |
| Pilot Duty               | 120-277                | 720VA     | 120-277       | 720VA   | 720VA     |
| Motor                    | 120                    | 1HP       | 120           | 1HP     | 1HP       |
|                          | 208                    | 1 1/2HP   | 208           | 1 1/2HP | 1 1/2HP   |
|                          | 240-277                | 2HP       | 240-277       | 2HP     | 2HP       |
| Resistive                | 28VDC                  | 30A       | 28VDC         | 30A     | 30A       |
| Electronic Ballast (LED) | 277                    | 16A       | 277           | 16A     | -         |

# DIGITAL Sunset Time Switch

## Astronomic Lighting Control

### EWZ Series



#### APPLICATIONS

- Outdoor signs.
- Lighting security.
- Heating and air conditioning.

#### FEATURES

- **Scheduling:** 20 ON & OFF set points for individual programs for each day of the week. Minimum setting is 1 minute.
- **SunSet Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes from both sunset and sunrise times.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.
- **Standards:** Listed UL917
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

#### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120-277VAC, 50/60Hz (automatic detection)
- **Terminal Range:** #8 - #16AWG.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:** Polycarbonate Indoor/Outdoor NEMA 3R is standard with lockable hasp. (See Pages 464-468 For Dimensions).  
- Suffix -MB without enclosure and includes mounting bracket.
- Options:**  
- Suffix -Q Quartz crystal timing. Maintains accurate timing where 50/60 Hz is not consistent such as on-site generator produced power. Consult factory for minimum order size.

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO.  | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT DRY CONTACTS |
|-----------|----------|----------------------------|-----------------|---------------------|
| EWZ101    | 82470    | 120-277                    | 1               | SPST                |
| EWZ120    | 82471    | 120-277                    | 1               | SPDT                |
| EWZ101-MB | 82263    | 120-277                    | 1               | SPST                |
| EWZ120-MB | 82275    | 120-277                    | 1               | SPDT                |

| TYPE                     | EWZ101, EWS103, EWZ201 |           | EWZ120        |         |           |
|--------------------------|------------------------|-----------|---------------|---------|-----------|
|                          | VOLTAGE (VAC)          | RATING NO | VOLTAGE (VAC) | NO      | RATING NC |
| General Purpose          | 120-277                | 40A       | 120-277       | 30A     | 30A       |
| Inductive                | 120-277                | 40A       | 120-277       | 30A     | 30A       |
| Ballast                  | 120                    | 30A       | 120           | 30A     | 10A       |
|                          | 208-277                | 20A       | 208-277       | 20A     | 10A       |
| Tungsten                 | 120                    | 15A       | 120           | 15A     | 2A        |
| Pilot Duty               | 120-277                | 720VA     | 120-277       | 720VA   | 720VA     |
| Motor                    | 120                    | 1HP       | 120           | 1HP     | 1HP       |
|                          | 208                    | 1 1/2HP   | 208           | 1 1/2HP | 1 1/2HP   |
|                          | 240-277                | 2HP       | 240-277       | 2HP     | 2HP       |
| Resistive                | 28VDC                  | 30A       | 28VDC         | 30A     | 30A       |
| Electronic Ballast (LED) | 277                    | 16A       | 277           | 16A     | -         |

# DIGITAL SunSet Time Switch

## Two Channel Astronomic Lighting Control EWZ201C Series



### APPLICATIONS

- Outdoor signs.
- Lighting security.
- Heating and air conditioning.

### FEATURES

- **Three Contact Settings:**
  - Two-Channel: Factory default operates with two independent SPST contacts.
  - Double Pole Option: Software allows option for single channel DPST setting.
  - Momentary Option: For mechanically held contractors: Configure with simple jumper change for single channel momentary operation.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross switching. Rated for LED lighting drivers and electronic ballasts.
- **Auto-Voltage Detection:** One unit covers all voltages from 120VAC to 277VAC without dip switch to set.
- **Scheduling:** 32 ON & OFF set points for individual programs for each day of the week. Minimum setting is 1 minute.
- **Block Holiday:** 20 holiday blocks can be set for individual days or for duration of any number of days.
- **SunSet Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes from both sunset and sunrise times.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 4 days of real time backup.
- **Standards:** Listed UL917

### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120-277VAC, 50/60Hz (automatic detection)
- **Terminal Range:** #8 - #16AWG.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:**
  - Polycarbonate Indoor/Outdoor NEMA 3R is standard with lockable hasp.
  - Suffix -MB without enclosure and includes mounting bracket.
  - (See Pages 464-468 For Dimensions).

### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO.   | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT DRY CONTACTS |
|------------|----------|----------------------------|-----------------|---------------------|
| EWZ201C    | 82451    | 120-277                    | 2               | SPDT                |
| EWZ201C-MB | 82452    | 120-277                    | 2               | SPDT                |

| TYPE                   | VOLTAGE (VAC) 50/60Hz | RATING  |
|------------------------|-----------------------|---------|
| Resistive              | 120-277               | 30A     |
|                        | 28VDC                 | 30A     |
| Ballast                | 120                   | 30A     |
|                        | 208-277               | 20A     |
| Electronic Ballast/LED | 120-277               | 16A     |
| Pilot Duty             | 120-277               | 720VA   |
| Motor                  | 120                   | 1HP     |
|                        | 208                   | 1 1/2HP |
|                        | 240-277               | 2HP     |



# DIGITAL 365/7 Day Time Switch

## Multipurpose Control

### DG100A Series



#### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120-277VAC, 50/60Hz (automatic detection)
- **Terminal Range:** #12 - #18AWG.
- **Operating Temperature:** -31 °F to +131 °F (-35 °C to +55 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:**
  - Noryl® Indoor/Outdoor NEMA 3R.
  - Suffix -Y metal Indoor enclosure NEMA 1.
  - All with lockable hasp. (See Pages 464-468 For Dimensions).

#### APPLICATIONS

- Indoor/outdoor lighting, HVAC equipment.
- School warning and other, traffic lights.
- Water heaters in offices, churches and factories.

#### FEATURES

- **Scheduling:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.
- **Momentary Contact:** DGM100A has 2 second contact closures for ON & OFF control of mechanically held contactors or latching relays.
- **Block Holiday:** 9 holiday blocks can be set for individual days or for duration of any number of days.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM or 24 Hour format.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.
- **Standards:** Listed UL916.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO.   | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT DRY CONTACTS |
|------------|----------|----------------------------|-----------------|---------------------|
| DG100A     | 82208    | 120-277                    | 1               | DPDT                |
| DG200A     | 82209    | 120-277                    | 2               | SPDT                |
| DGM100A*   | 82210    | 120-277                    | 1               | SPDT Momentary      |
| DG100A-Y   | 82221    | 120-277                    | 2               | DPDT                |
| DGM100A-Y* | 82222    | 120-277                    | 1               | SPDT Momentary      |

\*No Electronic Ballast (LED) Rating

| TYPE                     | VOLTAGE (VAC) | RATING |       |
|--------------------------|---------------|--------|-------|
| Resistive                | 24-277        | 20A    | 10A   |
| Ballast                  | 120-277       | 20A    | 10A   |
| Tungsten                 | 120           | 15A    | —     |
| Pilot Duty               | 120           | 720VA  | 290VA |
|                          | 240           | 720VA  | 360VA |
| Motor                    | 120           | 1HP    | 1/4HP |
|                          | 240           | 2HP    | 1/2HP |
| Resistive                | 28VDC         | 20A    | 10A   |
| Electronic Ballast (LED) | 277           | 16A    | —     |

# DIGITAL

## 365/7 Day SunSet Time Switch

### Astronomic Lighting Control

DWZ Series



#### SPECIFICATIONS

- **Input Voltage:** 120/208-240-277VAC, 50/60Hz.
- **Terminal Range:**  
#14 - #16AWG for line input.  
#12 - #16AWG load outputs.
- **Operating Temperature:** -40 °F to +158 °F (-40 °C to 70 °C).
- **Power Consumption:** 5VA Max.
- **Enclosure:**  
- Noryl® Indoor/Outdoor NEMA 3R.  
- With lockable hasp. (See Pages 464-468 For Dimensions).

#### APPLICATIONS

- Outdoor lighting.
- Security lighting.
- Parking lot lighting.
- Canopy lighting.

#### FEATURES

- **Scheduling:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10°- 60° Northern or Southern latitudes. Can be individually offset +/- 1 to 240 minutes from both sunset and sunrise times.
- **Holidays:** 1 to 24 individual dates.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic compensation scheduled ON or OFF, automatic operation then resumes.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM or 24 Hour Format.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.
- **Standards:** Listed UL917.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT DRY CONTACTS |
|----------|----------|----------------------------|-----------------|---------------------|
| DWZ100B  | 82189    | 120/208-240/277            | 1               | DPDT                |
| DWZ200B  | 82098    | 120/208-240/277            | 2               | SPDT                |

| TYPE                     | VOLTAGE (VAC) | RATING |       |
|--------------------------|---------------|--------|-------|
|                          |               | NO     | NC    |
| General Purpose          | 240-277       | 30A    | 30A   |
| Ballast                  | 120           | 30A    | 10A   |
|                          | 277           | 20A    | 10A   |
| Tungsten                 | 120-277       | 15A    | 2A    |
| Pilot Duty               | 120-277       | 720VA  | 720VA |
| Motor                    | 120           | 1HP    | 1HP   |
|                          | 208-277       | 2HP    | 2HP   |
| Resistive                | 28VDC         | 30A    | 30A   |
| Electronic Ballast (LED) | 277           | 16A    | -     |

# DIGITAL

## 365/7 Day Time Switch

### Seasonal & Signal Control

#### DTS Series



#### APPLICATIONS

- Indoor/outdoor lighting, heating and air conditioning.
- Security systems, horns and bells, low voltage lighting.
- Misting and spraying, roof cooling, clock correction systems.
- Process functions.

#### FEATURES

- **Scheduling:** 99 ON/OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.
- **Seasons:** 1 to 4 with different daily schedules which can wrap around into the new year.
- **Holidays:** 1 to 24 individual dates.
- **Signal/Pulse Duration:** 2 different settings per channel: each 1-99 seconds.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes. In signal mode, activates pulse.
- **Clock Format:** AM/PM or 24 Hour format.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.
- **Standards:** Listed UL917.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

#### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120/208-277VAC, 50/60Hz.
- **Terminal Range:**  
#14 - #16AWG for line input.  
#12 - #16AWG load outputs.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:**  
- Noryl® Indoor/Outdoor NEMA 3R with lockable hasp.  
(See Pages 464-468 For Dimensions).

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|----------|----------|----------------------------|-----------------|--------------------------|
| DTS100B  | 82185    | 120/208<br>- 240/277       | 1               | DPDT                     |
| DTS200B  | 82186    | 120/208<br>- 240/277       | 2               | SPDT                     |
| DTS400B  | 82187    | 120/208<br>- 240/277       | 4               | SPDT                     |

| TYPE                     | DTS100B, DTS200B |           |           | DTS400B       |           |           |
|--------------------------|------------------|-----------|-----------|---------------|-----------|-----------|
|                          | VOLTAGE (VAC)    | RATING NO | RATING NC | VOLTAGE (VAC) | RATING NO | RATING NC |
| General Purpose          | 204-277          | 30A       | 30A       | 204-277       | 20A       | 20A       |
| Ballast                  | 120              | 30A       | 10A       | 120-277       | 13A       | -         |
|                          | 277              | 20A       | 10A       |               |           | -         |
| Tungsten                 | 120-277          | 15A       | 2A        | 120           | 8A        | -         |
| Pilot Duty               | 120-277          | 720VA     | 720VA     | 120-277       | 720VA     | 360VA     |
| Motor                    | 120              | 1HP       | 1HP       | 120/240       | 1/2HP     | 1/2HP     |
|                          | 208-277          | 2HP       | 2HP       |               |           |           |
| Resistive                | 28VDC            | 30A       | 30A       | -             | -         | -         |
| Electronic Ballast (LED) | 277              | 16A       | -         | -             | -         | -         |

# DIGITAL

## 365/7 Day SunSet Time Switch

### SunSet & Seasonal Control

#### DZS Series



#### APPLICATIONS

- HVAC equipment, horns and bells.
- Interior lighting, Electric motors.
- Outdoor lighting and signs.

#### FEATURES

- **Scheduling:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes can be individually offset +/-1 to 240 minutes from both sunset and sunrise times.
- **Seasons:** 1 to 4 with different daily schedules which can wrap around into the new year.
- **Holidays:** 1 to 24 individual dates.
- **Signal/Pulse Duration:** 2 different settings per channel: each 1-99 seconds.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes. In signal mode, activates pulse.
- **Clock Format:** AM/PM or 24 Hour format.
- **Power Outage Backup:** Permanent schedule retention with memory module. Supercapacitor provides 7 days of real time backup.
- **Memory Module:** Removable MM can be programmed at any one location and inserted into another DZS series unit.
- **Copy Feature:** Unit can be configured to copy program schedule to multiple memory modules.
- **Option:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.
- **Standards:** Listed UL917.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

#### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120/208-240/277VAC, 50/60Hz.
- **Terminal Range:**  
#14 - #16AWG for line input.  
#12 - #16AWG load outputs.
- **Operating Temperature:** -40 °F to +158 °F (-40 °C to +70 °C).
- **Power Consumption:**  
5VA Max: DZS100/200BP.  
6VA Max: DZS400BP.
- **Enclosure:**  
- Noryl® Indoor/Outdoor NEMA 3R  
- With lockable hasp. (See Pages 464-468 For Dimensions).

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS          | DRY CONTACTS (UNPOWERED) |
|----------|----------|----------------------------|--------------------------|--------------------------|
| DZS100BP | 82182    | 120/208-240/277            | 1                        | DPDT                     |
| DZS200BP | 82183    | 120/208-240/277            | 2                        | SPDT                     |
| DZS400BP | 82184    | 120/208-240/277            | 4                        | SPDT                     |
| USB-MMP  | 82196    | —                          | Memory Module Programmer | Includes software        |

| TYPE                     | DZS100BP, DZS200BP |       |           | DZS400BP      |       |           |
|--------------------------|--------------------|-------|-----------|---------------|-------|-----------|
|                          | VOLTAGE (VAC)      | NO    | RATING NC | VOLTAGE (VAC) | NO    | RATING NC |
| General Purpose          | 204-277            | 30A   | 30A       | 204-277       | 20A   | 20A       |
|                          | 120                | 30A   | 10A       | 120-277       | 13A   | —         |
| Ballast                  | 277                | 20A   | 10A       | 120-277       | 13A   | —         |
|                          | 120-277            | 15A   | 2A        | 120           | 8A    | —         |
| Pilot Duty               | 120-277            | 720VA | 720VA     | 120-277       | 720VA | 360VA     |
| Motor                    | 120                | 1HP   | 1HP       | 120/240       | 1/2HP | 1/2HP     |
|                          | 208-277            | 2HP   | 2HP       | 120/240       | 1/2HP | 1/2HP     |
| Resistive                | 28VDC              | 30A   | 30A       | —             | —     | —         |
| Electronic Ballast (LED) | 277                | 16A   | —         | —             | —     | —         |

# DIGITAL

## 365/7 Day SunSet Time Switch

### Momentary Output Astronomic Lighting Control

DZM Series



#### APPLICATIONS

- Low voltage latching relays.
- Direct wire to mechanically held contactors.

#### FEATURES

- **Scheduling:** 99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes can be individually offset +/- 1 to 240 minutes from both sunset and sunrise times.
- **Seasons:** 1 to 4 with different daily schedules which can wrap around into the new year.
- **Holidays:** 1 to 24 individual dates.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM or 24 Hour format.
- **Power Outage Backup:** Permanent schedule retention with memory module. Supercapacitor provides 7 days of real time backup.
- **Memory Module:** Removable MM can be programmed at any one location and inserted into another DZM series unit.
- **Copy Feature:** Unit can be configured to copy program schedule to multiple memory modules.
- **Option:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.
- **Standards:** Listed UL917.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

#### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120/208-277VAC, 50/60Hz.
- **Terminal Range:**  
#14 - #16AWG for line input.  
#12 - #16AWG load outputs.
- **Operating Temperature:** -40 °F to 158 °F (-40 °C to +70 °C).
- **Power Consumption:** 4VA Max.
- **Enclosure:**  
- Noryl® Indoor/Outdoor NEMA 3R.  
- With lockable hasp. (See Pages 464-468 For Dimensions).

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS          | DRY CONTACTS (UNPOWERED) |
|----------|----------|----------------------------|--------------------------|--------------------------|
| DZM200BP | 82188    | 120/208-240/277            | 2                        | SPDT Momentary           |
| USB-MMP  | 82196    | —                          | Memory Module Programmer | Includes software        |

| TYPE       | VOLTAGE (VAC) | RATING |
|------------|---------------|--------|
| Resistive  | 24-277        | 20A    |
| Pilot Duty | 120-277       | 720VA  |

# DIGITAL

## Photo Input Lighting Control

### 2 Zone Light Level

#### LC200 Series



#### APPLICATIONS

- 24 hour convenience stores, open wall parking structures.
- Large canopies, building perimeters, atriums.
- Use to control two different outdoor lighting circuits utilizing one photocell. Sign lighting can turn ON at one ambient light level while parking lot lighting turns ON at a different light level.

#### FEATURES

- **Photosensor Input:** EPC1 included.
- **Dual Outputs:** with independent turn-ON adjustment for Stage 1 and Stage 2.
- **Light Level Activation:** Turn ON is user settable from 2 to 100 footcandle; Independent light level adjustment for each zone. Turn OFF is a maximum of 2 times turn ON level. Built-in delay OFF of 30 seconds to avoid reaction to lightning or headlights.
- **Switched Input:** Turns off loads. Can be used for photocell ON and time switch OFF operation.
- **Standards:** Listed UL916.

#### SPECIFICATIONS

- **Input Voltage:** 120/240/277VAC, 50/60Hz.
- **Terminal Range:** Relay #12AWG; input power terminals #14 - #22AWG; TOD/sensor terminals accept #18 - #22AWG.
- **Operating Temperature:** -40 °F to +140 °F (-40 °C to + 60 °C).
- **Power Consumption:** 5VA Max.
- **Enclosure:**
  - LC200 includes metal Indoor NEMA 1.
  - All with lockable hasp. (See Pages 464-468 For Dimensions).
- **Other Mountings:** LC200M mechanism only.

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

| CAT. NO. | UPCCODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | DRY CONTACTS (UNPOWERED) |
|----------|---------|----------------------------|-----------------|--------------------------|
| LC200    | 82111   | 120/240/277                | 2               | SPDT                     |

| TYPE                     | VOLTAGE (VAC) | RATING |       |
|--------------------------|---------------|--------|-------|
|                          |               | NO     | NC    |
| Resistive                | 120/240       | 20A    | 10A   |
|                          | 277           | 12A    | —     |
| Ballast                  | 120           | 20A    | 10A   |
|                          | 240/277       | 6A     | 3A    |
| Tungsten                 | 120/240/277   | 5A     | 3A    |
| Pilot Duty               | 120/240       | 470VA  | 275VA |
|                          | 277           | 690VA  | —     |
| Electronic Ballast (LED) | 277           | 16A    | —     |

# DIGITAL 365/7 Day SunSet Time Switch

1 & 2 Zone Astronomic Lighting Control For Energy Code  
DGU & DGLC Series



## APPLICATIONS

### INTERIOR LIGHTING

- Open office lighting, hallways.
- Meeting and sales areas, stock room and warehouses.

### EXTERIOR LIGHTING

- Signage and store windows.
- Security, parking lots.

## FEATURES

- **Scheduling:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes from both sunset and sunrise times.
- **Photosensor Input:** Unique push button set-up assures accurate operation with automatic calibration that adjusts for wire size and distance. EPC-A photo sensor is included with the DGLC-A and may be ordered as an option for use with model DGU100A & DGUM100A.
- **Light Level Activation:** Turn ON is user settable from 1 to 100 footcandle; Turn OFF is a maximum of 2 times turn ON level. Each channel has an independent setting. Includes a user settable delay before ON and OFF between 1 – 90 seconds.
- **Remote Override On:** Each channel has independent input for a maintained dry-contact closure. May use TORK model SS410 and TRP-24B for timed override. May use with occupancy sensor with dry contacts as override.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Momentary Contact - DGUM100A:** 2 second contact closure ON & OFF to control mechanically held contactors or latching relays.
- **Block Holiday:** 9 holiday blocks can be set for individual days or for duration of any number of days.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Clock Format:** AM/PM or 24 Hour format.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.
- **Standards:** Listed UL916.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

## SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Input Voltage:** 120-277VAC, 50/60Hz (auto detection).
- **Terminal Range:**  
#12 - #18AWG for line/load.  
#18 - #26AWG sensor/switch input.
- **Operating Temperature:** -31 °F to +131 °F (-35 °C to +55 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:**  
- Noryl® Indoor/Outdoor NEMA 3R.  
- Suffix -NC Noryl® Indoor/Outdoor NEMA 3R with clear Lexan® cover.  
- Suffix -Y metal Indoor enclosure NEMA 1.  
- All with lockable hasp. (See Pages 464-468 For Dimensions).

## WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO.                            | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS        | OUTPUT CONTACTS   |
|-------------------------------------|----------|----------------------------|------------------------|-------------------|
| DGU100A-Y                           | 82211    | 120-277                    | 1                      | DPDT              |
| DGUM100A*                           | 82212    | 120-277                    | 1                      | SPDT<br>Momentary |
| DGUM100A-Y*                         | 82224    | 120-277                    | 1                      | SPDT<br>Momentary |
| DGLC100A-NC                         | 82223    | 120-277                    | 1                      | DPDT              |
| DGLC200A-NC                         | 82213    | 120-277                    | 2                      | SPDT              |
| EPC-A                               | 82112    | Accessory Photo Sensor     | —                      | —                 |
| SS410                               | 14033    | 24VAC/24VDC                | —                      | SPDT              |
| TRP-24B                             | 98225    | 120/277                    | Transformer Power Pack | SPST              |
| *No Electronic Ballast (LED) Rating |          |                            |                        |                   |

| TYPE                     | VOLTAGE (VAC) | RATING |       |
|--------------------------|---------------|--------|-------|
|                          |               | NO     | NC    |
| Resistive                | 24-277        | 20A    | 10A   |
| Ballast                  | 120-277       | 20A    | 10A   |
| Tungsten                 | 120           | 15A    | —     |
| Pilot Duty               | 120           | 720VA  | 290VA |
|                          | 240           | 720VA  | 360VA |
| Motor                    | 120           | 1HP    | 1/4HP |
|                          | 240           | 2HP    | 1/2HP |
| Resistive                | 28VDC         | 20A    | 10A   |
| Electronic Ballast (LED) | 277           | 16A    | —     |



# DIGITAL 365/7 Day SunSet Time Switch

4, 8 & 12 Zone Astronomic Lighting Control For Energy Code ELC Series



## APPLICATIONS

- HVAC equipment, Indoor/Outdoor lighting.
- Meets indoor/outdoor lighting energy code requirements.

## FEATURES

- **Scheduling:** 128 time based events allow individual programs for each day of the week at a minimum 1 minute apart. Event types include ON, OFF, Duration, or Duty Cycle.
- **Sensor Event:** 32 sensor driven events allow individual programs for each day of the week.
- **SunSet Astronomic:** Adjusts daily to changes in sunset times. Adjustable 10° - 70° Northern or Southern latitudes. Settings can be offset from both sunset and sunrise times.
- **Universal Input:** 8 inputs may be assigned to any channel. ELC74 includes 4.
- **Switched Input:** Accepts unpowered contact closure from optional momentary or maintained switch for a timed override.
- **Photosensor Input:** Accepts input from optional sensor. EPC-LC (indoor/outdoor) has a range from 0 - 250 foot-candels.
- **Momentary Contact:** May be configured for momentary ON/OFF operation to control latching contactors. The ELC74 operates as a two channel unit. The ELC78 operates as a four channel unit. The ELC712 operates as a six channel unit.
- **Holidays:** 26 holidays may be set using 10 individual dates, 10 month type (last Monday in May), or 6 specific holidays with one of 3 independent holiday schedules.
- **Block Holiday:** 10 holiday blocks can be set for individual days or for duration of any number of days and may use one of 3 holiday schedules.
- **Pulse/Time Duration:** 4 different ON settings from 1 second to 23 hours, 59 minutes, 59 seconds.
- **Duty Cycle:** 4 different ON and OFF patterns from 1 second to 23 hours, 59 minutes, 59 seconds.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Remote Override:** Universal input may be programmed for timed override from a momentary or maintained dry contact switch.
- **Manual Override:** Keyboard button control until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Staggered Start:** Optional stagger up time between channels, after a power outage; selectable from 5 seconds, 15 seconds, 30 seconds, 1 minute, 5 minutes, 10 minutes, and 15 minutes.
- **Clock Format:** AM/PM or 24 hour format.
- **Power Outage Backup:** The program and time of day are maintained for a minimum of 2 days by means of a capacitor. After two days, a lithium battery takes over and provides a minimum accumulated time of 1 year. The lithium battery should provide over 10 years of protection.
- **Standards:** Listed UL916.

## SPECIFICATIONS

- **Timing Accuracy:** Line frequency.
- **Input Voltage:** 24/120/208-240/277VAC, 50/60Hz.
- **Terminal Range:**  
#10 - #16AWG for line input.  
#10 - #16AWG for load output.  
#14 - #22AWG universal input.
- **Operating Temperature:** -20 °F to +140 °F (-29 °C to +60 °C).
- **Power Consumption:** 10VA Maximum.
- **Enclosure:** Metal Indoor NEMA 1 with lockable hasp.  
(See Pages 464-468 For Dimensions).

## WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT CONTACTS |
|----------|----------|----------------------------|-----------------|-----------------|
| ELC74    | 82523    | 24/120/208-240/277         | 4               | SPDT            |
| ELC78    | 82524    | 24/120/208-240/277         | 8               | SPDT            |
| ELC712   | 82525    | 24/120/208-240/277         | 12              | SPDT            |
| EPC-LC   | 82233    | Accessory Photo Sensor     | —               | —               |
| LCS115M  | 82082    | Accessory Momentary Switch | —               | SPST            |

| TYPE                     | VOLTAGE (VAC)  | RATING     |                |
|--------------------------|----------------|------------|----------------|
|                          |                | NO         | NC             |
| General Purpose          | 24/120 - 277   | 20A        | 15A            |
| Ballast                  | 120-277        | 20A        | 20A            |
| Tungsten                 | 120-277        | 5A         | —              |
| Pilot Duty               | 120-240        | 470VA      | 275VA          |
| Motor                    | 120<br>208-277 | 1HP<br>2HP | 1/4HP<br>1/2HP |
| Electronic Ballast (LED) | 277            | 16A        | —              |

# DIGITAL 365/7 Day SunSet Time Switch

4 Zone Astronomic Lighting Control For Energy Code  
DLC400BP



## APPLICATIONS

### Interior Lighting

- HVAC equipment, Indoor/Outdoor lighting.
- Meets indoor/outdoor lighting energy code requirements.

### Exterior Lighting

- Signage and store windows.
- Security, parking lots.

## FEATURES

- **Configurable Zones:** Simple three position slide switch sets logic for each zone: Time ON/Time OFF, Photo ON/Photo OFF, or Photo ON/ Time OFF.
- **Scheduling:** 99 ON & OFF set points allow individual programs for each day of the week. Minimum 1 minute apart.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. 1. Adjustable 10° - 60° Northern or Southern latitudes. 2. Can be individually offset +/-240 minutes from both sunset and sunrise times.
- **Photosensor Input:** EPC2 photo sensor included.
- **Light Level Activation:** Turn ON and OFF level is user settable from 1 to 100 footcandle. Each channel has an independent setting.
- **Remote Override:** Maintained dry contact closure or use TORK Model SS410 for timed override with flash warning before OFF. May use with occupancy sensor as override.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Seasons:** 1 to 4 with different daily schedules which can wrap around into the new year.
- **Holidays:** 1 to 24 individual dates.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Power Outage Backup:** Permanent schedule retention with memory module. Battery provides real time backup for 6 months cumulative.
- **Memory Module:** Removable MM can be programmed at any one location and inserted into another DZS series unit.
- **Option:** Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.
- **Standards:** Listed UL916.

## SPECIFICATIONS

- **Timing Accuracy:** Line frequency.
- **Input Voltage:** 120/208 - 240/277VAC, 50/60Hz.
- **Terminal Range:** #10 - #14AWG
- **Operating Temperature:** -40 °F to +158 °F (-40 °C to + 55 °C).
- **Power Consumption:** 30VA Maximum.
- **Enclosure:** Metal Indoor/Outdoor NEMA 3.  
- All with lockable hasp. (See Pages 464-468 For Dimensions).

## WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS   | OUTPUT CONTACTS |
|----------|----------|----------------------------|-------------------|-----------------|
| DLC400BP | 82191    | 120/208-240/277            | 4                 | SPDT            |
| USB-MMP  | 82196    | Memory Module Programmer   | Includes Software |                 |
| SS410    | 14033    | 24VAC/24VDC                | —                 | SPDT            |

| TYPE                     | VOLTAGE (VAC) | RATING |       |
|--------------------------|---------------|--------|-------|
|                          |               | NO     | NC    |
| General Purpose          | 24-277, 30VDC | 30A    | 30A   |
| Ballast                  | 120-277       | 20A    | 10A   |
| Tungsten                 | 120           | 10A    | —     |
| Pilot Duty               | 120-277       | 720VA  | 720VA |
| Electronic Ballast (LED) | 277           | 16A    | —     |

# DIGITAL Lighting Delay Time Control Flash Warning & Timed Override LD Series



## APPLICATIONS

- Open offices, gymnasiums, warehouses.
- Outdoor recreation courts, user-activated lights with time limits.
- Match with photocontrol and timer to limit hours of use.

## FEATURES

- **Maintained Input With Load Warning Blink:** LDS Series controls output load contacts based on power applied to the time switch input contact. At removal of power from the time switch input, LDS Series provides 1 second blink then keeps load contacts closed for an extra 1 or 5 minutes (user selectable) before turn off.
- **Maintained Input With Auxiliary Warning:** LDSH Series controls output load contacts based on power applied to the time switch input contact. At removal of power from the time switch input, LDSH Series closes a second set of contacts for a user supplied audible or visual warning device. The warning circuit closes for a selected time of 4 seconds (best for audible device or continuous, then keeps load contacts closed for an extra 1 or 5 minutes (user selectable) before turn OFF.
- **Momentary Input:** Provides timed override when time switch input contact is unpowered (timer OFF). When activated during the warning period, load contacts are kept closed and timing starts. Both series can accept momentary input contact closure for ON to start the timing and OFF to end the timing.
- **Timed Override Settings:** User may select override times of 1/2, 1, 1½, 2, 6, 9, or 12 hours. Warning before OFF is always active after override time.
- **Standards:** Listed UL917.

## SPECIFICATIONS

- **Input Voltage:** 120/208/240/277VAC, 50/60Hz.
- **Terminal Range:**  
#10 - #16AWG for line/load.  
#18 - #26AWG switch input.
- **Operating Temperature:** -22 °F to 150 °F (-30 °C to +65 °C).
- **Power Consumption:** 5VA Max.
- **Enclosure:**  
- Metal Indoor NEMA 1.  
- All with lockable hasp. (See Pages 464-468 For Dimensions).

## WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | ENCLOSURE TYPE |
|----------|----------|----------------------------|-----------------|----------------|
| LDS      | 81025    | 120/208-240/277            | SPDT            | Mechanism      |

| TYPE            | VOLTAGE (VAC) | RATING |       |
|-----------------|---------------|--------|-------|
|                 |               | NO     | NC    |
| General Purpose | 24/240        | 20A    | 10A   |
|                 | 277           | 20A    | 3A    |
| Ballast         | 120           | 20A    | 10A   |
|                 | 208-277       | 10A    | 3A    |
| Tungsten        | 120-277       | 5A     | 3A    |
| Pilot Duty      | 120/240       | 470VA  | 275VA |
|                 | 277           | 690VA  | —     |
| Resistive       | 28VDC         | 20A    | 10A   |

# DIGITAL

## 24 Hour or 7 Day Time Switch

### Signaling & Duty Cycle

DGS Series



#### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Terminal Range:** #12 - #18AWG.
- **Operating Temperature:** -31 °F to +131 °F (-35 °C to + 55 °C).
- **Power Consumption:** 6VA Max.
- **Enclosure:**
  - Noryl® Indoor/Outdoor NEMA 3R.
  - All with lockable hasp. (See Pages 464-468 For Dimensions).

#### APPLICATIONS

- Signaling.
- Duty Cycle.

#### FEATURES

- **DG180A & DG280A:** 56 ON & OFF set points provide daily repeated programs. Minimum setting is 1 minute.
- **DGS100A:** 56 ON & OFF set points provide individual programs for each day of the week. Minimum setting is 1 minute.
- **Duty Cycle & Signaling:** Two different ON/OFF patterns or signal durations may be programmed. The durations can be up to 23 hours, 59 minutes and 59 seconds in length.
- **Skip Function (24 Hour Units Only):** Each channel can be set for ACTIVE/SKIP operations that alternate from 1 - 31 days. This becomes an effective way to cycle loads on varying days within the month. Using the two-circuit DG280A, two loads can be set to operate on alternate days in a simple manner.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM or 24 hour.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 7 days of real time backup.
- **Standards:** Listed UL916.

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

| CAT. NO.              | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | OUTPUT CONTACTS |
|-----------------------|----------|----------------------------|-----------------|-----------------|
| <b>24 HOUR MODELS</b> |          |                            |                 |                 |
| DG180A                | 82206    | 120-277                    | 1               | DPDT            |
| DG280A                | 82207    | 120-277                    | 2               | SPDT            |
| <b>7 DAY MODELS</b>   |          |                            |                 |                 |
| DGS100A               | 82205    | 120-277                    | 1               | DPDT            |

| TYPE       | VOLTAGE (VAC) | RATING |       |
|------------|---------------|--------|-------|
|            |               | NO     | NC    |
| Resistive  | 24-277        | 20A    | 10A   |
| Ballast    | 120-277       | 20A    | 10A   |
| Tungsten   | 120           | 15A    | —     |
| Pilot Duty | 120           | 720VA  | 290VA |
|            | 240           | 720VA  | 360VA |
| Motor      | 120           | 1HP    | 1/4HP |
|            | 240           | 2HP    | 1/2HP |
| Resistive  | 28VDC         | 20A    | 10A   |

# DIGITAL Percentage & Cycle Timers

EJWT & ACT-MA Series



## SPECIFICATIONS

- **Timing Accuracy:** 1% of timing range.
- **Terminal Range:** #12 - #18AWG.
- **Operating Temperature:** 32°F to +122°F (0°C to + 50°C).
- **Power Consumption:** 16VA Max.
- **Enclosure:**
  - Indoor NEMA 4X is standard. (See Pages 464-468 For Dimensions).

## WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

## APPLICATIONS

- Poultry and livestock.
- Agriculture or greenhouse, oil well pumping.
- Ventilation, process control.
- Standards: Listed UL916.

## FEATURES

- **EJWT – Percentage Timer**
  - 960 time combinations with two dials.
  - Cycle Time Dial sets 32 repeating cycles from 15 seconds to 24 hours.
  - Percentage ON Dial has 32 steps from 0% to 100%.
  - Repeats cycle as long as power is applied.
- **ACT – Cycle Timer**
  - 960 time combinations with two dials.
  - ON time dial sets 30 time steps from 30 seconds to 15.5 minutes.
  - OFF dial has 30 steps time steps from 30 seconds to 15.5 minutes.
  - Repeats cycle as long as power is applied.
  - Hold On or Hold Off positions included.
  - Standards: Listed UL916.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | OUTPUT CONTACTS |
|----------|----------|----------------------------|-----------------|
| EJWT     | 82513    | 120-240                    | SPDT            |
| ACT30MA  | 82527    | 120-240                    | SPDT            |

| TYPE            | VOLTAGE (VAC) | RATING |       |
|-----------------|---------------|--------|-------|
|                 |               | NO     | NC    |
| General Purpose | 120-240       | 20A    | 10A   |
| Resistive       | 120-240       | 20A    | 10A   |
| Motor           | 120           | 1.5HP  | 1/4HP |
|                 | 208-240       | 3HP    | 1/2HP |
| Pilot Duty      | 120/240       | 470VA  | 275VA |

# DIGITAL

## Panel Mount Cycle Time Switch

### PCT15M



#### APPLICATIONS

- Oil field pumping stations.
- Poultry & livestock feeding and watering.
- Ventilation, process control.

#### FEATURES

- **Fixed Timer Cycle:** 15 minutes repeating cycle when unit is powered.
- **Percentage ON:** 1% to 99% increments.
- **Display:** Digital percentage reading.
- **ON Setting:** Hold ON.
- **OFF Setting:** Hold OFF.
- **Power Outage Backup:** Remembers Place In Cycle When Power Resumes.
- **Test Mode:** For temporary ON/OFF cycle verification.
- **Panel Mounting:** 3" diameter back housing retrofits to existing mechanical timer dimensions. Two sets of mounting dimensions to choose from. (See Pages 464-468 For Enclosure Dimensions).
- **Standards:** Listed UL60730 (formerly UL917).

#### SPECIFICATIONS

- **Timing Accuracy:** 1% of timing range.
- **Terminal Range:**  
#14 - #16AWG for line input.  
#12 - #16AWG for load output.
- **Operating Temperature:** -40 °F to +149 °F (-40 °C to +65 °C).
- **Power Consumption:** 5VA Max.

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS |
|----------|----------|-------------------------|-----------------|
| PCT15M   | 82528    | 120-240                 | SPDT            |

| TYPE            | VOLTAGE (VAC) | RATING |       |
|-----------------|---------------|--------|-------|
|                 |               | NO     | NC    |
| General Purpose | 120-240       | 20A    | 20A   |
| Resistive       | 120-240       | 20A    | 20A   |
| Motor           | 120           | 1HP    | 1/4HP |
|                 | 240           | 2HP    | 1/2HP |

TORK® DIGITAL PRODUCTS

# DIGITAL Specialty Timers

ON Delay, OFF Delay, Interval Controls  
E500T Series



## SPECIFICATIONS

- **Timing Accuracy:** 1% of timing range.
- **Input Voltage:** 120/240VAC, 60Hz.
- **Terminal Range:** #12 - #18AWG.
- **Operating Temperature:** 32°F to +122°F (0°C to + 50°C).
- **Power Consumption:** 16VA Max.
- **Enclosure:**
  - Indoor NEMA 4X is standard.
  - (See Pages 464-468 For Dimensions).

## WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

## APPLICATIONS

- Poultry and livestock.
- Agriculture or greenhouse, oil well pumping.
- Ventilation, process control.
- Standards: Listed UL916.

## FEATURES

- **E500T – On Delay Timer**
  - Dial sets 30 time delay durations from 5 seconds to 3 hours.
  - External landing switch activated starts delay to ON.
  - Runs until external landing switch turns OFF.
- **E501T – Auto Off Interval Timer**
  - Dial sets 30 time durations from 10 seconds to 12 hours.
  - Start/Stop button or External landing switch starts interval ON.
  - Automatically turns OFF at end of preset time.
  - START/STOP or External landing switch turns OFF.
- **E502T – Off Delay Timer**
  - Dial sets 30 time durations from 5 seconds to 3 hours.
  - External landing switch starts interval ON.
  - Automatically turns OFF at end of preset time.
  - External landing switch turns OFF.



| CAT. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | OUTPUT CONTACTS |
|----------|----------|----------------------------|-----------------|
| E500T    | 82514    | 120-240                    | SPDT            |
| E501T    | 82515    | 120-240                    | SPDT            |
| E502T    | 82516    | 120-240                    | SPDT            |

| TYPE            | VOLTAGE (VAC) | RATING |       |
|-----------------|---------------|--------|-------|
|                 |               | NO     | NC    |
| General Purpose | 120-240       | 20A    | 10A   |
| Resistive       | 120-240       | 20A    | 10A   |
| Motor           | 120           | 1HP    | 1/4HP |
|                 | 208-240       | 2HP    | 1/2HP |
| Pilot Duty      | 120/240       | 470VA  | 275VA |



# DIGITAL

## 7 Day Time Switch

### 1 or 2 Channel Timer

#### DIN Series



#### APPLICATIONS

- Panel builders, indoor/outdoor lighting.
- Security systems, HVAC equipment.

#### FEATURES

- **Scheduling:** 8 ON and OFF pairs of set points for DIN100B. 4 ON and OFF (CH A) and 3 ON and OFF (CH B) pairs of set points for DIN200B. Individual programs on each day of the week. Minimum setting is 1 minute.
- **Manual Override:** Until the next regular scheduled ON or OFF, automatic operation then resumes.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Battery retains time and schedule.

#### SPECIFICATIONS

- **Terminal Range:** #12 - #18AWG
- **Operating Temperature:**
  - DIN100B: 14 °F - 131 °F (-10 °C - +55 °C).
  - DIN200B: 14 °F - 113 °F (-10 °C - +45 °C).
- **Power Consumption:** 4VA Max.
- **Mounting:** DIN rail #50022 (35mm) or flat surface using supplied adapter.

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | FIG. NO. | UPC CODE | INPUT SUPPLY (VAC) 50/60Hz | NO. OF CHANNELS | NO. OF ON/OFF              | OUTPUT CONTACTS |
|----------|----------|----------|----------------------------|-----------------|----------------------------|-----------------|
| DIN100B  | 1        | 82192    | 120                        | 1               | 8                          | SPDT            |
| DIN200B  | 2        | 82193    | 120                        | 2               | 4 Channel A<br>3 Channel B | SPDT            |

| TYPE                | VOLTAGE (VAC) | RATING |     |
|---------------------|---------------|--------|-----|
|                     |               | NO     | NC  |
| General Purpose     | 120           | 8A     | 8A  |
| Resistive           | 120           | 16A    | 16A |
| Motor (DIN100 only) | 120           | 1/2HP  | -   |

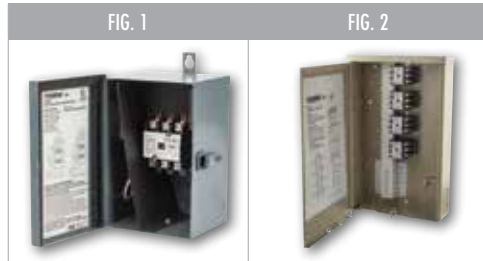
# DIGITAL 40 Amp Contactors

Increased Amperage & Voltage Switching Panels  
5401A Series



## APPLICATIONS

- Lighting loads.
- Exhaust fans.
- Electric and hot water heaters.
- Refrigeration and defrosting.



| CAT. NO. | FIG. NO. | UPC CODE | COIL VOLTS | NO. OF CONTACTORS | OUTPUT CONTACTS |
|----------|----------|----------|------------|-------------------|-----------------|
| 5401A    | 1        | 81019    | 120        | 1                 | 3PST            |
| 5441A    | 2        | 81020    | 120        | 4                 | 3PST            |

## FEATURES

- **Contact Ratings:** Can switch up to 40 AMPS per pole from 120VAC to 277V lighting loads, one to three circuits simultaneously.
- **Easy Wiring:** Includes 120 volt control wiring compartment. 5441 has terminal strip pre-mounted for quick connection.
- **Enclosure:** Metal NEMA 1 Indoor enclosure. (See Pages 464-468 For Dimensions).

## WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

| TYPE                 | VOLTAGE (VAC) | FLA | RATING |
|----------------------|---------------|-----|--------|
| Tungsten*            | 120           | —   | 30A    |
| Ballast*             | 120/277       | —   | 40A    |
| LED*                 | 120/277       | —   | 40A    |
| Motor (Single Phase) | 120           | 40  | 3HP    |
|                      | 240           | 40  | 7.5HP  |
| Motor (3 Phase)      | 240           | 40  | 10HP   |
|                      | 480           | 40  | 20HP   |

Coil Data: 120VAC @ 60Hz  
c6VA Holding/Seal; 60VA Inrush  
\* Ratings for single phase load

# DIGITAL Accessory HPS Starter



## APPLICATIONS

### STARTING AID - For high pressure Sodium lamps

- Designed to operate as a starting aid, for all H.P.S. ballasts from 35 to 400 watts, with lamp voltage of 55 or 100 volts.

## FEATURES

### STARTING AID

- **Smart Voltage:** Delivers appropriate trigger spikes for lamp ignition, then reduces voltage to good lamps. Continues to feed voltage spikes to old or poorly working lamps.
- **High Grade Material:** All components are sealed with high grade die-electric material to protect against contaminants and other adverse environmental conditions.
- **Easy Installation:** Universal 3 wire design, color coded for ease of installation.

## SPECIFICATIONS

### Starting Aid

- **Operating Temperature:** -40 °F to +221 °F (-40 °C to + 105 °C).
- **Enclosure:** Lexan® Housing, Durable, high temperature.

## WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

| CAT. NO. | UPC CODE | VOLTAGE VAC | LAMP VOLTAGE VAC | LAMP WATTAGE | LEAD LENGTH | DESCRIPTION                  |
|----------|----------|-------------|------------------|--------------|-------------|------------------------------|
| HPS30    | 81030    | 105-347     | 55 or 100        | 35W to 400W  | 9 Inches    | High Pressure Sodium Starter |

# DIGITAL

## 24 Hour, 7 Day SunSet Timers

### Indoor Plug-In Timers

#### 400E & SA100 Series

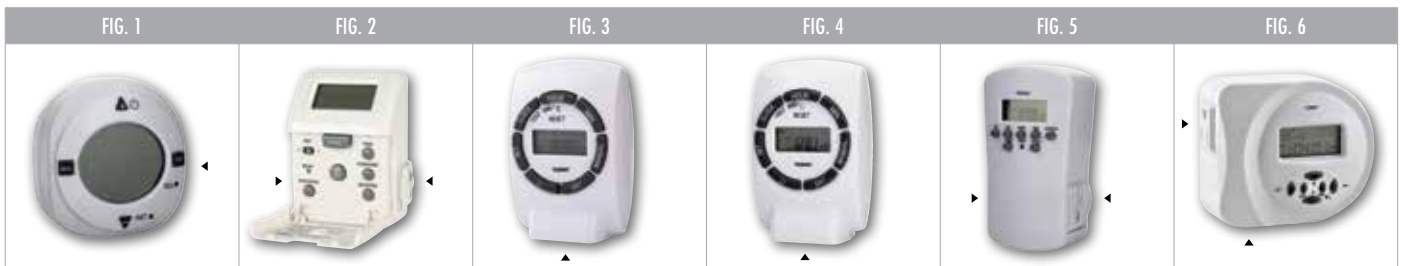


#### APPLICATIONS

- Automatically turn ON/OFF items in the home.
- Vary schedules daily.
- Give the home a "lived in" look while away.
- Save energy and provide security.

#### FEATURES

- **SA134 & SA130:**
  - 24 hour programming.
  - Battery Back-up for power outages.
- **460E, 454E & 455E:**
  - 7 day programming.
  - Random feature for lived in look.
  - Manual Daylight Savings.
  - Battery Back-up for power outages.
- **SunSet Timer 457Z:**
  - Sunset On with 7 day programmable Off or sunrise Off.
  - Random feature for lived in look.
  - Automatic Daylight Savings.
  - Battery Back-up for power outages.
  - Never come home to a dark house.



| CAT. NO. | FIG. NO. | CERTIFICATION | UPC CODE | VOLTAGE VAC 50/60Hz | NO. OF OUTLETS (▶)   | TYPE OF PLUG | DESCRIPTION  | VARIABLE TIMING SEGMENTS   | GENERAL PURPOSE | RATING       |           |          |                          |       |
|----------|----------|---------------|----------|---------------------|----------------------|--------------|--|--|-----------------|--------------|-----------|----------|--------------------------|-------|
|          |          |               |          |                     |                      |              |  |  |                 | RESISTIVE    | INDUCTIVE | TUNGSTEN | ELECTRONIC BALLAST (LED) | MOTOR |
| SA134    | 1        | cCSAus        | 16522    | 120                 | 1                    | Polarized    | Easy Set 24 hour daily repeat timer                        | 2 On/Off Settings  | —               | 8.3A         | —         | 600W     | —                        | —     |
| SA130    | 2        | cETLus        | 16519    | 120                 | 1 Timed<br>1 Untimed | Polarized    | Easy Set Lamp Timer with cover to hide buttons             | 2 On/Off settings. 1 setting may be activate a time                      | —               | 15A          | 15A       | 500W     | —                        | 1/2HP |
| 460E     | 3        | cULus         | 16097    | 125                 | 1                    | Polarized    | Seven Day Programmable                                     | 20 ON/OFFs Different schedule for each day of the week. Multiple ON/OFFs | —               | 15A<br>1875W | —         | 1000W    | 500VA                    | 1/3HP |
| 454E     | 4        | cULus         | 16100    | 125                 | 1                    | Grounded     | Seven Day Programmable                                     | 20 ON/OFFs Different schedule for each day of the week. Multiple ON/OFFs | —               | 15A<br>1875W | —         | 1000W    | 500VA                    | 1/3HP |
| 455E     | 5        | cULus         | 16103    | 120                 | 2                    | Grounded     | Seven Day Programmable                                     | 20 ON/OFFs Different schedule for each day of the week. Multiple ON/OFFs | —               | 15A<br>1800W | —         | 960W     | 500VA                    | 1/2HP |
| 457Z     | 6        | cCSAus        | 16016    | 120                 | 2                    | Grounded     | SunSet™ Timer Dusk to Dawn with automatic daylight savings | 20 ON/OFFs Different schedule for each day of the week. Multiple ON/OFFs | 15A             | 15A          | —         | 1000W    | —                        | —     |

NOTE: "▲" = Indicates outlet location.

# DIGITAL Wireless Controls

## Indoor & Outdoor Outlet Plug-In SA200 & SA500 Series



### APPLICATIONS

- Remotely turn ON/OFF items.
- Control lamps, radios, appliances, outdoor lighting.
- Safety: enter and leave rooms in full light.
- Provide a convenient control from your chair.

### FEATURES

#### Indoor Remote Outlet - SA500:

- Control indoor outlet up to 50' away.
- Transmitter has 3 pair ON/OFF buttons to allow independent control of 3 receivers.
- Match receiver and outlet with simple dial. No fussy programming.
- Get one for each room. No cross talk.
- Wireless control without moving across room.

#### Outdoor Remote Outlet - SA230:

- Control indoor outlet up to 50' away.
- Matched receiver and outlet. No programming.
- Transmitter has 1 pair ON/OFF button.
- Wireless control from the comfort of inside.



| CAT. NO. | FIG. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | NO. OF OUTLETS<br>(▶) | TYPE OF PLUG | DESCRIPTION                      | VARIABLE TIMING<br>SEGMENTS                | RATING    |          |
|----------|----------|---------------|----------|------------------------|-----------------------|--------------|----------------------------------|--|-----------|----------|
|          |          |               |          |                        |                       |              |                                  |  | RESISTIVE | TUNGSTEN |
| SA500    | 1        | cCSAus        | 16555    | 125                    | 1                     | Grounded     | Indoor Remote Controlled Outlet  | Manual On/Off with push button transmitter | 8A        | 625W     |
| SA230    | 2        | cCSAus        | 16564    | 125                    | 2                     | Grounded     | Outdoor Remote Controlled Outlet | Manual On/Off with push button transmitter | 8A        | 600W     |

NOTE: "▲" = Indicates outlet location.

# DIGITAL

## 7 Day Timer Photo Timers

### Outdoor & Light Activated Plug-In

#### 600E & SA200 Series



#### FEATURES

##### Digital Timers:

- 7 day programming.
- Manual Daylight Savings.
- Random feature for lived in look.
- Battery Back-up for power outages.

##### Light Activated Timers:

- **Timer Repeat Schedule:** Daily turns on at dusk.
- **Variable Timing:** Choose a countdown time to turn Off from 1 to 9 hours after dusk.
- **654E User Select Mode:** Start countdown at any time and repeats daily.

#### APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Match dusk ON with light activated timer.



| CAT. NO. | FIG. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | NO. OF<br>OUTLETS<br>(▶) | TYPE OF PLUG | DESCRIPTION                               | VARIABLE TIMING<br>SEGMENTS                                      | RATING    |          |                             |               |
|----------|----------|---------------|----------|------------------------|--------------------------|--------------|---|--|-----------|----------|-----------------------------|---------------|
|          |          |               |          |                        |                          |              |   |  | RESISTIVE | TUNGSTEN | ELECTRONIC<br>BALLAST (LED) | MOTOR         |
| 642E     | 1        | cULus         | 16110    | 125                    | 2                        | Grounded     | Outdoor Lighting Timer                    | 30 minutes   | 15A       | 1000W    | 500VA                       | 1/3HP         |
| 654E     | 2        | cULus         | 16113    | 125                    | 2                        | Grounded     | Light Activated<br>Outdoor Lighting Timer | Turns on at Dusk and<br>countdown off<br>1 through 9 hours later | 15A       | 1000W    | 500VA                       | 1/3HP<br>TV-5 |
| SA204    | 3        | cETLus        | 16561    | 120                    | 2                        | Grounded     | Light Activated Landscape<br>Timer        | Turns on at Dusk and<br>countdown off<br>1 through 9 hours later | 8A        | 600W     | -                           | -             |

NOTE: "▲" = Indicates outlet location.

# DIGITAL Zip-Set™

## Outdoor Living Plug-In Timers SA200 Series



### FEATURES

- Fast programming with ZIP-SET™ One-Step™ set-up. Just enter your area code.
- Zip-Set™ turns lights ON at sunset & OFF at countdown or preset time.
- 7-5-2 settings for full week, weekdays, and weekends.
- Option to set with one of three on/off programs.
- Manual Daylight Savings.
- Random feature for lived in look.
- Battery Back-up for power outages.
- Power Cord: SA210 18" & SA220 24".

### APPLICATIONS

- Automatically turn ON/OFF outdoor lighting.
- Save energy. Don't run lights all night.
- Match dusk ON everyday.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | NO. OF<br>OUTLETS<br>(▶) | TYPE OF PLUG | DESCRIPTION                                 | VARIABLE TIMING<br>SEGMENTS   | RATING    |           |          |       |
|----------|---------------|----------|------------------------|--------------------------|--------------|---|---|-----------|-----------|----------|-------|
|          |               |          |                        |                          |              |   |   | RESISTIVE | INDUCTIVE | TUNGSTEN | MOTOR |
| SA210    | cULus         | 16537    | 120                    | 2 Timed<br>1 Untimed     | Grounded     | Zip-Set™ Outdoor Living<br>Wall Mount Timer | Sunset On and countdown hours to Off<br>or same fixed time off each day | 15A       | 15A       | 1000W    | 1/4HP |
| SA220    | cULus         | 16534    | 120                    | 6 Timed<br>1 Untimed     | Grounded     | Zip-Set™ Outdoor Lighting<br>Stake Timer    | Sunset On and countdown hours to Off<br>or same fixed time off each day | 15A       | 15A       | 600W     | 1/4HP |

NOTE: "▲" = Indicates outlet location.

# THE CODE SWITCH

## Automatic Off & Override In One Device

### SS900 Series



#### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Wire Size:** Load Wire #14AWG.
- **Operating Temperature:** +32° F to +104° F (0° C to +40° C).
- **Warranty:** 5 Years.

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

#### ACCESSORIES

- **TRP-24I:** See page 413.

#### APPLICATIONS

- Open office areas, interior lighting and lobbies.

#### FEATURES

MEETS ASHRAE, IECC and TITLE 24 ENERGY CODE REQUIREMENTS.

- **Manual On/ Automatic Off:** The switch is preset with an occupied time schedule of 6:00a.m. to 6:00p.m. Monday - Friday; the switch requires a manual button push to turn ON. There is an automatic OFF at the end of the occupied time schedule. Customize with 10 pairs of set points. Day groups speed programming.
- **Override:** Factory preset for 2 hour override during unoccupied times. Override time may be set between 5 minutes and 4 hours.
- **Unoccupied Days:** Controlled load is OFF for at least 24 hours during times when no one is present.
- **Manual Operation:** Manual On (Vacancy Type) to turn on loads during occupied times. May also turn off loads for code required space control.
- **Flash Warning:** Option to add a load flicker warning and two minute countdown at the end of occupied and override times.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 100 hours of real time backup.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Tamper Resistant:** Wall plate locks access to timer adjustments.
- **Three-Way & Multi-Way:** Timer may be activated from other locations. Maximum distance 100 ft.
- **Momentary Output:** Option for SS903 to control latching contactors.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero-cross type switching.
- **Wiring Choices:**
  - SS903 - Dual Wiring: with neutral for new construction or no neutral for retrofit.
  - SS910 - Multiple circuits with power packs - Low-voltage class 2 wiring.
- **Clock Format:** AM/PM LCD display.
- **Wall Plate:** Supplied with single gang decorator wall plate.

ACCESSORY  
TRP-24B



| CAT. NO. | COLOR | CERTIFICATION | UPC CODE | SUPPLY VOLTAGE<br>VAC 50/60Hz | GENERAL<br>PURPOSE   | MAGNETIC<br>BALLAST | RATINGS                     |           |              |              |
|----------|-------|---------------|----------|-------------------------------|----------------------|---------------------|-----------------------------|-----------|--------------|--------------|
|          |       |               |          |                               |                      |                     | ELECTRONIC<br>BALLAST (LED) | TUNGSTEN  | PILOT DUTY   | MOTOR        |
| SS903    | White | cULus         | 14041    | 120/277                       | 15A                  | 10A                 | 8A                          | 8A @ 120V | 360VA @ 120V | 1/2HP @ 120V |
| SS910    | White | cULus         | 14040    | 15 A @ 24VDC or 24VAC         | Minimum Load 1ma @5V |                     |                             |           |              |              |



# DIGITAL

## 7 Day SunSet Timer

### Astronomic SunSet/Sunrise In-Wall

SS721Z Series



#### APPLICATIONS

- Commercial outdoor security lighting, Interior lobby lighting.
- Contactors for fans and motors, sign lighting.

#### FEATURES

- **Scheduling:** 10 ON and OFF pairs of set points for individual programs on each day of the week. 11 day groups speed programming. Minimum setting is 1 minute.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Sunset and sunrise times are adjustable from 10°- 60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes for earlier or later operation.
- **Random Mode:** Varies ON and OFF times to create lived in look when away.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Manual Mode:** Does not run programs until set to AUTO (automatic) mode.
- **Vacation Mode:** No operation when away.
- **Easy Wiring:** SS721Z Requires a neutral, can be used as a 3-way switch.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 2 days of real time backup.
- **Commercial Grade Specs:** Control lighting contactors and 277VAC loads. Compatible with CFL lamps.
- **Full Switching:** No minimum load requirement.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

#### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Wire Size:** #12AWG input/output - #16AWG 3-way (remote).
- **Operating Temperature:** 32 °F to +104 °F (0 °C to + 40 °C).
- **Switch Type:** SPST

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.



| CAT. NO. | COLOR        | CERTIFICATION | UPC CODE | SUPPLY VOLTAGE<br>VAC 50/60Hz | RESISTIVE | BALLAST | RATINGS                     |           |              |               |
|----------|--------------|---------------|----------|-------------------------------|-----------|---------|-----------------------------|-----------|--------------|---------------|
|          |              |               |          |                               |           |         | ELECTRONIC<br>BALLAST (LED) | TUNGSTEN  | PILOT DUTY   | MOTOR         |
| SS721Z   | White        | cULus         | 14027    | 120-277                       | 16A       | 13A     | 10A                         | 8A @ 120V | 720VA @ 120V | 1/2 HP @ 120V |
| SS721ZA  | Light Almond | cULus         | 14028    | 120-277                       | 16A       | 13A     | 10A                         | 8A @ 120V | 720VA @ 120V | 1/2 HP @ 120V |

# DIGITAL

## 7 Day SunSet Timer

### Astronomic Sunset/Sunrise In-Wall

#### SS700Z Series



#### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency.
- **Wire Size:** #12AWG input/output - #16AWG 3-way (remote).
- **Operating Temperature:** 32 °F to +104 °F (0 °C to + 40 °C).
- **Switch Type:** SPST

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

#### APPLICATIONS

- Commercial outdoor security lighting, Interior lobby lighting.
- Contactors for fans and motors, sign lighting.

#### FEATURES

- **Scheduling:** 10 ON and OFF pairs of set points for individual programs on each day of the week. 11 day groups speed programming. Minimum setting is 1 minute.
- **Sunset Astronomic:** Adjusts daily to changes in sunset times. Sunset and sunrise times are adjustable from 10°-60° Northern or Southern latitudes. Can be individually offset +/- 1-240 minutes for earlier or later operation.
- **Random Mode:** Varies ON and OFF times to create lived in look when away.
- **Daylight Saving:** Automatic adjustment (can be omitted).
- **Leap Year:** Automatic Compensation.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Manual Mode:** Does not run programs until set to AUTO (automatic) mode.
- **Vacation Mode:** No operation when away.
- **Easy Wiring:**  
SS703Z does not require a neutral and can be used as a 3-way switch.  
SS705Z does not require a neutral and it's not 3-way compatible.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Permanent schedule retention. Supercapacitor provides 2 days of real time backup.
- **Commercial Grade Specs:** Control lighting contactors and 277VAC loads. Compatible with CFL lamps.
- **Full Switching:** No minimum load requirement.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



| CAT. NO. | COLOR        | CERTIFICATION | UPC CODE | SUPPLY VOLTAGE<br>VAC 50/60Hz | RESISTIVE | BALLAST | RATINGS                     |           |              |               |
|----------|--------------|---------------|----------|-------------------------------|-----------|---------|-----------------------------|-----------|--------------|---------------|
|          |              |               |          |                               |           |         | ELECTRONIC<br>BALLAST (LED) | TUNGSTEN  | PILOT DUTY   | MOTOR         |
| SS703Z   | White        | cULus         | 14042    | 120/277                       | 15A       | 10A     | 8A @ 120<br>5A @ 277        | 8A @ 120V | 360VA @ 120V | 1/2 HP @ 120V |
| SS703ZA  | Light Almond | cULus         | 14043    | 120/277                       | 15A       | 10A     | 8A @ 120<br>5A @ 277        | 8A @ 120V | 360VA @ 120V | 1/2 HP @ 120V |
| SS705Z   | White        | cULus         | 14038    | 120                           | 15A       | 10A     | 8A                          | 8A        | 360VA        | 1/2 HP        |

# DIGITAL Zip-Set™

## Residential In-Wall Timer SA170 Series



### SPECIFICATIONS

- Timing Accuracy: +/- 1 minute/month.
- Terminal Range: #14AWG
- Operating Temperature: 32 °F to +104 °F (0 °C to +40 °C).

### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

### APPLICATIONS

- Residential Exterior lights.
- Small fans and motors.
- Appliances.

### FEATURES

- **Zip-Set™** factory preset time. Just enter area code and it finds correct time and sunset time.
- **Scheduling:** One On/Off set point pair is active at a time. Schedule 1, Schedule 2, a combination of 1 & 2, or ZipSet™. Day combinations for 7-5-2 speed programming.
- **Random Mode:** Varies ON and OFF times to create "lived in" look when away.
- **Countdown:** Button press turns lights ON and starts a 5 minute countdown to OFF.
- **Daylight Saving:** Manual button push for one hour adjustment.
- **Manual Override:** Until the next regularly scheduled ON or OFF, automatic operation then resumes.
- **Wiring:** Requires a neutral.
- **Clock Format:** AM/PM.
- **Power Outage Backup:** Lithium batteries retain time and schedule.
- Wall plate not included.

| CAT. NO. | COLOR | CERTIFICATION | UPC CODE | SUPPLY VOLTAGE<br>VAC 50/60Hz | RATINGS   |           |          |       |
|----------|-------|---------------|----------|-------------------------------|-----------|-----------|----------|-------|
|          |       |               |          |                               | RESISTIVE | INDUCTIVE | TUNGSTEN | MOTOR |
| SA170    | White | cULus         | 16528    | 120                           | 15A       | 15A       | 5A       | 1/2HP |

# DIGITAL

## Auto OFF Countdown Timer

### Commercial In-Wall

#### SS400 Series



#### APPLICATIONS

- Offices, meeting rooms.
- Energy code timed override.
- Exhaust fans.
- Equipment room and storage spaces.

#### FEATURES

- **Wiring Choices:**
  - SS403 – no neutral for retrofit
  - SS423 – with neutral for new construction
  - SS410 – multiple circuits with power packs
    - low voltage for class 2 wiring
- **Energy Code Preset:** 2 hour timing for Title 24 and IECC (default), 4 hour timing for ASHRAE 90.1 (with quick dip switch adjustment)
- **Programmable:** 5 minutes to 24 hour: 5 minute steps from 5 minutes to 1 hour. 10 minute steps from 1 to 4 hours. 30 minute steps from 4 to 12 hours. 1 hour steps from 12 to 24 hours.
- **Scroll Lock:** Limits user adjustment to a maximum equal to the preset time.
- **Flash Warning:** Optional one second flicker turns load off/on 2 minutes before end of time cycle.
- **Beeper Warning:** Optional beep will sound every 15 seconds during the last 2 minutes of the time cycle.
- **Tamper Resistant:** Wall plate locks access to dip switch adjustments.
- **Manual Operation:** Start or stop countdown from timer or remote switch.
- **Three-Way & Multi-Way:** Three-way compatible with existing switch. Multi-way requires momentary switches at the additional locations. Maximum distance 100 feet.
- **Display:** Backlit LCD Display.
- **Color:** White (single gang decorator wall plate included).
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

#### SPECIFICATIONS

- **Timing Accuracy:** Line Frequency
- **Wire Size:**
  - SS403/SS423 – #14AWG input/output - #16AWG 3-way (remote).
  - SS410 – #18AWG
- **Operating Temperature:** 32 °F to +104 °F (0 °C to + 40 °C).
- **Warranty:** 5 Yrs.
- **Switch Type:**
  - SS403/SS423: SPST
  - SS410: SPDT

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

| CAT. NO. | COLOR | CERTIFICATION | UPC CODE | SUPPLY VOLTAGE<br>VAC 50/60Hz | RESISTIVE  | BALLAST | RATINGS                     |           |              |             |
|----------|-------|---------------|----------|-------------------------------|--|---------|-----------------------------|-----------|--------------|-------------|
|          |       |               |          |                               |  |         | ELECTRONIC<br>BALLAST (LED) | TUNGSTEN  | PILOT DUTY   | MOTOR       |
| SS403    | White | cULus         | 14029    | 120/230/277                   | 15A  | 10A     | 10A @ 120V                  | 8A @ 120V | 360VA @ 120V | 1/4HP @120V |
| SS423    | White | cULus         | 14030    | 120/230/277                   | 15A  | 13A     | 1200W @ 120V                | 8A @ 120V | 720VA @ 120V | 1HP         |
| SS410    | White | cULus         | 14033    | 24VAC/VDC                     | .5A Max. @ 28VDC, 1A @ 24VAC/VDC (Minimum Load 1ma @ 5V) |         |                             |           |              |             |

# DIGITAL

## Auto OFF Countdown Timer

### Commercial & Residential In-Wall

#### SS Series



#### SPECIFICATIONS

- **Timing Accuracy:**  $\pm 5\%$  @ 60° to 80°F.
- **Wire Size:** #18AWG
- **Operating Temperature:** 0 °F to +100 °F (-17 °C to +37 °C).
- **Switch Type:**
  - SS13F/SS13B: 3-Way switch with no re-wiring.
  - SS20/SS20F: SPST
- Not compatible with compact fluorescent lamps (CFL) and electronic fluorescent ballasts.

#### APPLICATIONS

- Bathroom fans and lights, Indoor/Outdoor lighting.
- Storage areas, hospitality areas.

#### FEATURES

- **Variable Timing:** Choose from 1 minute to 18 hours.
- **Flash Warning:** "F" suffix models with flicker feature turns load off for 1/2 second, 2 minutes before end of timed cycle and again 1 minute before end of timed cycle.
- **Audible Warning:** "B" suffix model with beep feature will begin a 1/2 second audible warning every 12 seconds during the last 2 minutes of timed cycle.
- **Tamper Resistant:** Time ON interval preset is hidden behind wall plate.
- **Easy Set:** Small screw driver adjustment provides quick set-up of timing.
- **Easy Wiring:** No neutral needed, great for retrofit.

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

| CAT. NO. | COLOR | CERTIFICATION | UPC CODE | SUPPLY VOLTAGE<br>VAC 50/60Hz | MINIMUM LOAD                           | WARNING BEFORE<br>TIME OUT | RATINGS              |                       |                      |                                    |
|----------|-------|---------------|----------|-------------------------------|--|----------------------------|----------------------|-----------------------|----------------------|------------------------------------|
|          |       |               |          |                               |  |                            | RESISTIVE            | BALLAST               | TUNGSTEN             | MOTOR                              |
| SS13F    | White | cULus         | 14007    | 24<br>120<br>208              | 6W @ 24V<br>30W @ 120V<br>50W @ 208V   | Flicker                    | .25-4.0A<br>@ 24VAC  | .25-4.0A<br>@ 120VAC  | .25-4.0A<br>@ 208VAC | 1/8 HP @ 120VAC<br>1/3 HP @ 240VAC |
| SS13B    | White | cULus         | 14006    | 240<br>277                    | 60W @ 240V<br>70W @ 277V               | Beep                       |                      |                       |                      |                                    |
| SS20     | White | cULus         | 14005    | 24<br>120<br>208              | 12W @ 24V<br>60W @ 120V<br>105W @ 208V | None                       | .50-7.25A<br>@ 24VAC | .50-7.25A<br>@ 120VAC | .50-4.0A<br>@ 208VAC | 1/6 HP @ 120VAC<br>1/2 HP @ 240VAC |
| SS20F    | White | cULus         | 14008    | 240<br>277                    | 120W @ 240V<br>150W @ 277V             | Flicker                    |                      |                       |                      |                                    |

# DIGITAL

## Auto OFF Countdown Timer

### Residential In-Wall

#### D Series



#### SPECIFICATIONS

- Timing Accuracy: Line voltage.
- Wire Size: #14AWG
- Operating Temperature: 32 °F to 122 °F (0 °C to 50 °C).

#### WIRING DIAGRAMS

- See Pages 377-388 For Diagrams.

#### APPLICATIONS

- Whole house fans, Indoor/Outdoor lighting.
- Bathroom fans and lights, self storage.

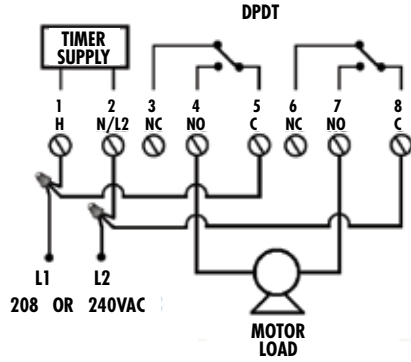
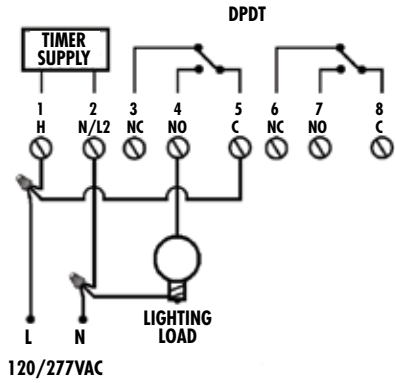
#### FEATURES

- **Variable Timing:**
  - Button push changes time ON setting.
  - D1060M: 10, 20, 30, 60 minute.
  - D212H: 2, 4, 8, 12 hour.
- **LED Display:** Indicator moves to new range as timer counts down.
- **Tamper Resistant:** Time ON interval preset.
- **Easy Set:** No adjustments, just wire and go!
- **Wiring:** Requires a neutral.
- **Colors:** Ivory, Light Almond, White.

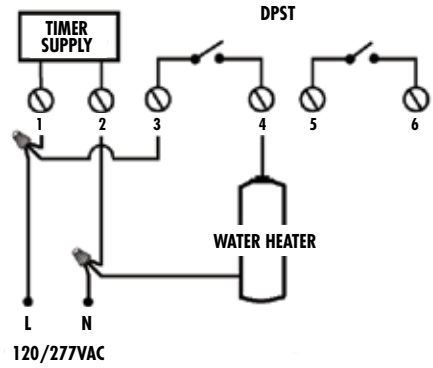
| CAT. NO. | COLOR        | CERTIFICATION | UPC CODE | SUPPLY VOLTAGE<br>VAC 50/60Hz | TIME SETTINGS          | GENERAL<br>PURPOSE | RATINGS   |          |         |       |
|----------|--------------|---------------|----------|-------------------------------|------------------------|--------------------|-----------|----------|---------|-------|
|          |              |               |          |                               |                        |                    | RESISTIVE | TUNGSTEN | BALLAST | MOTOR |
| D212H    | Ivory        | cULus         | 14021    | 120                           | 2, 4, 8, 12 Hours      | 15A                | 1000W     | 1000W    | 1000VA  | 1/4HP |
| D212HA   | Light Almond | cULus         | 14022    | 120                           | 2, 4, 8, 12 Hours      | 15A                | 1000W     | 1000W    | 1000VA  | 1/4HP |
| D212HW   | White        | cULus         | 14023    | 120                           | 2, 4, 8, 12 Hours      | 15A                | 1000W     | 1000W    | 1000VA  | 1/4HP |
| D1060M   | Ivory        | cULus         | 14025    | 120                           | 10, 20, 30, 60 Minutes | 15A                | 1000W     | 1000W    | 1000VA  | 1/4HP |
| D1060LA  | Light Almond | cULus         | 14024    | 120                           | 10, 20, 30, 60 Minutes | 15A                | 1000W     | 1000W    | 1000VA  | 1/4HP |
| D1060MW  | White        | cULus         | 14026    | 120                           | 10, 20, 30, 60 Minutes | 15A                | 1000W     | 1000W    | 1000VA  | 1/4HP |

# DIGITAL Wiring Diagrams

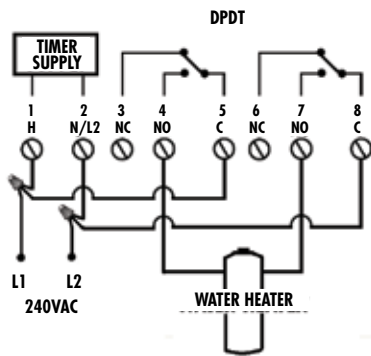
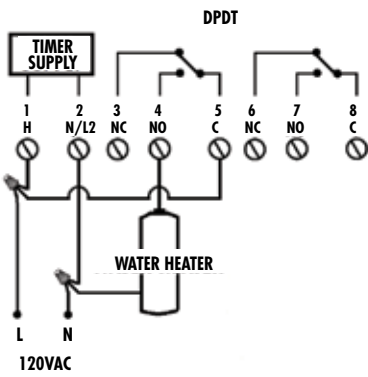
DT Series (DTU40)



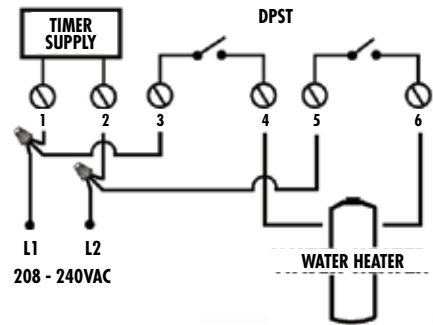
EH20C Series (120/277VAC)



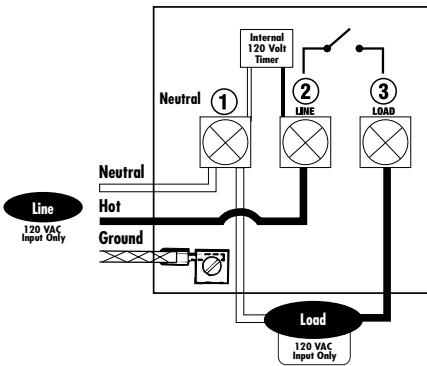
DTWH40



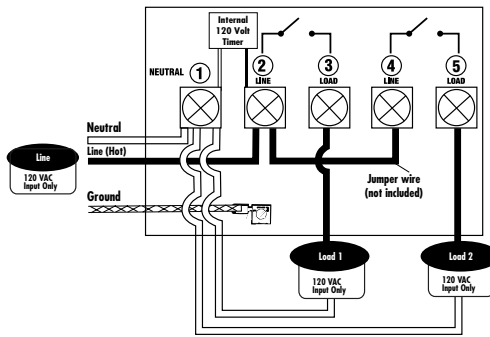
EH20C Series (208/240VAC)



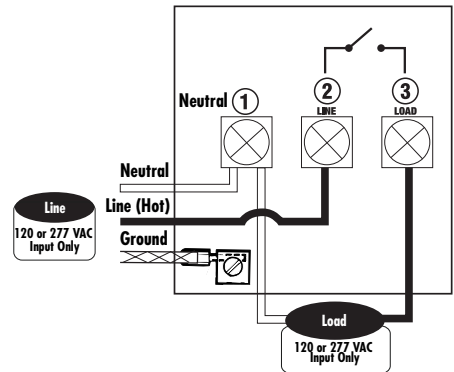
SA300



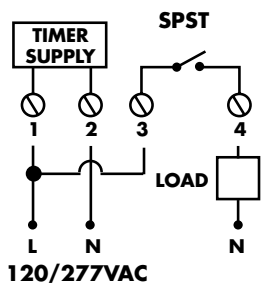
SA306



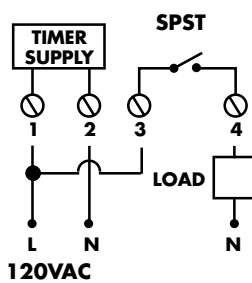
SA400



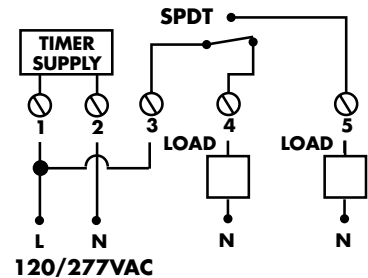
E101B



E101PB



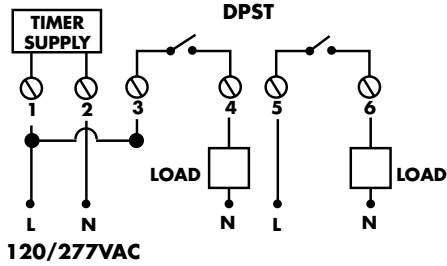
E120B



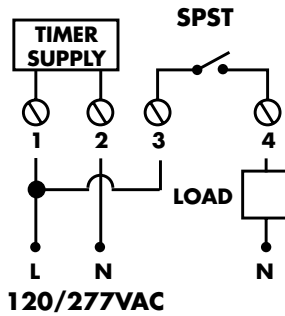


# DIGITAL Wiring Diagrams

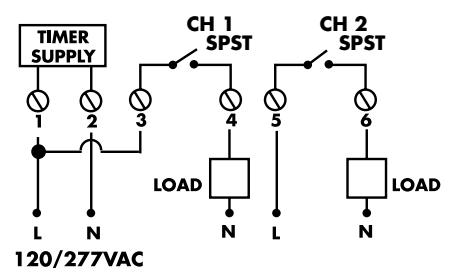
E103B (120/277VAC)



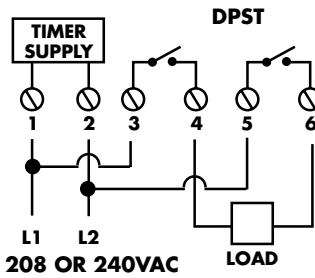
EW101B



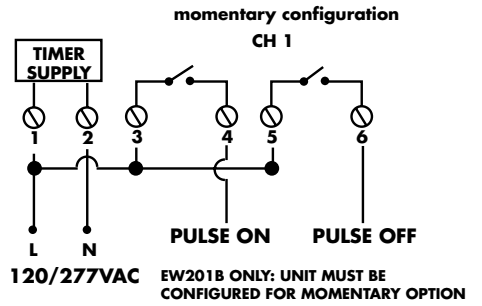
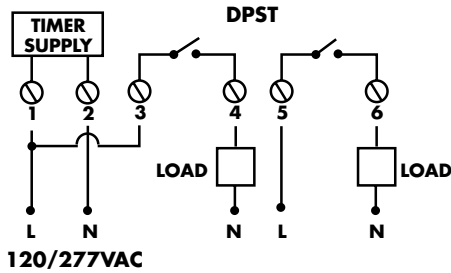
EW201B



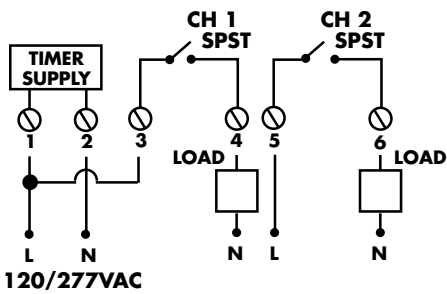
E103B (208/240VAC)



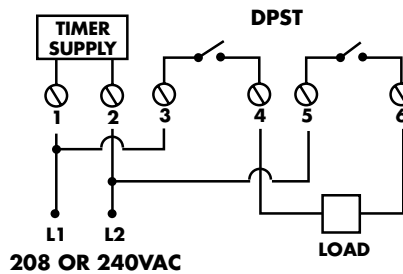
EW103B (120/277VAC)



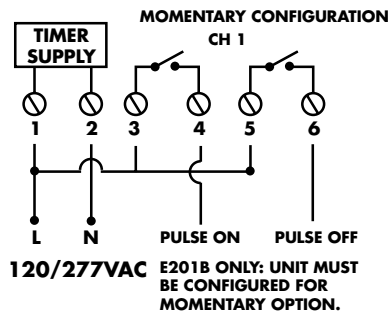
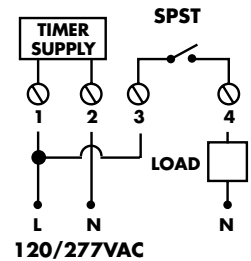
E201B



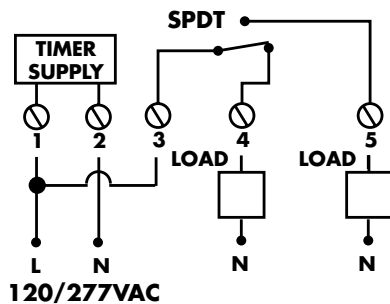
EW103B (208/240VAC)



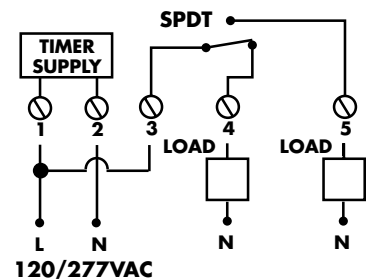
EWZ101



EW120B

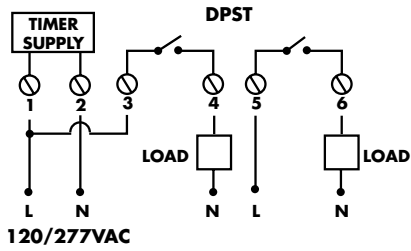


EWZ120

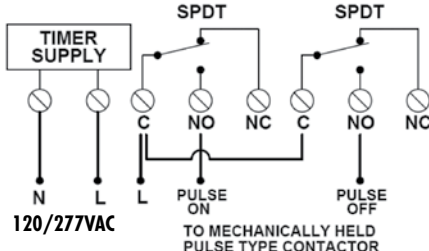


# DIGITAL Wiring Diagrams

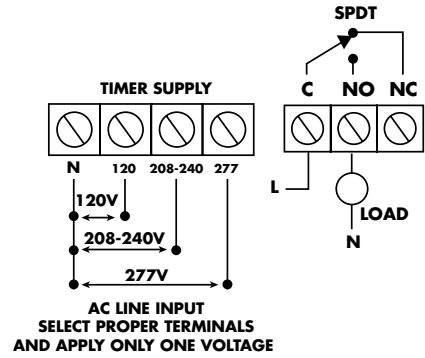
EWZ103 (120/277VAC)



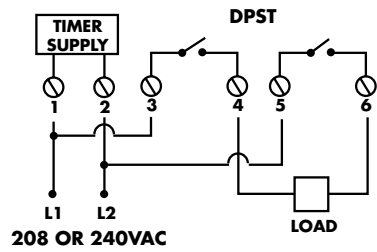
DGM100A



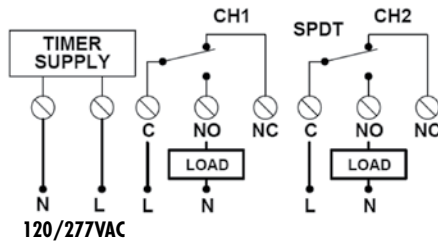
DWZ100B



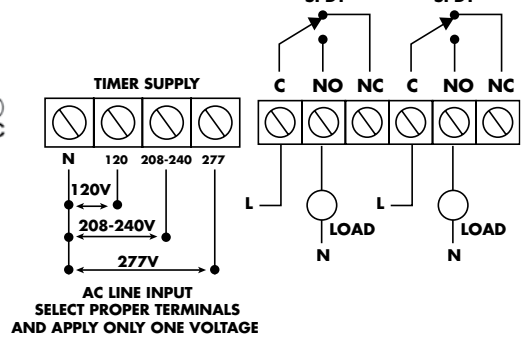
EWZ103 (208/240VAC)



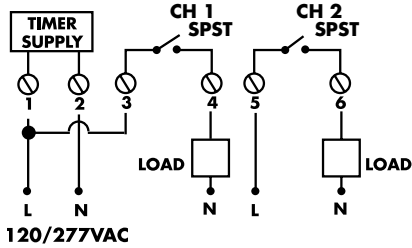
DG200A



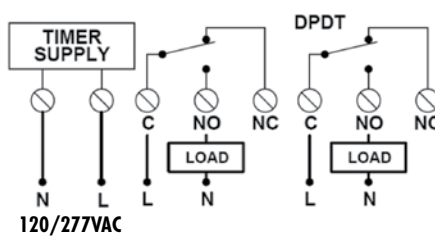
DW200B



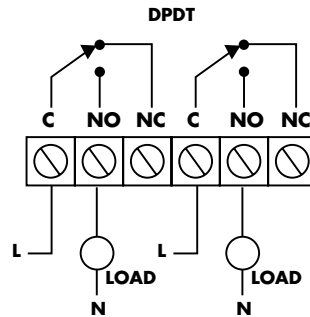
EWZ201C (120/277VAC)



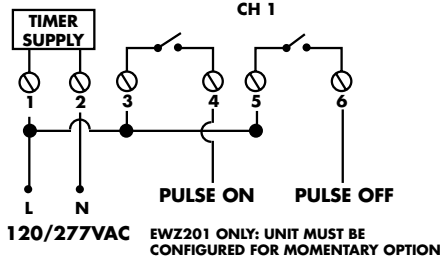
DG100A (120/277VAC)



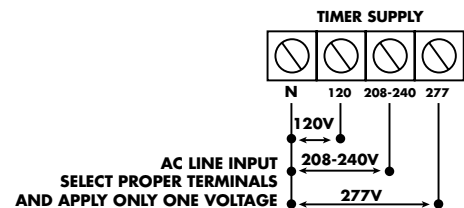
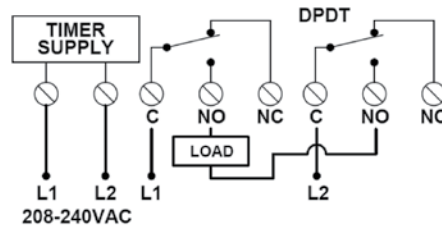
DTS100B



momentary configuration  
CH 1

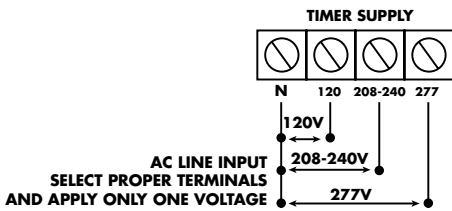
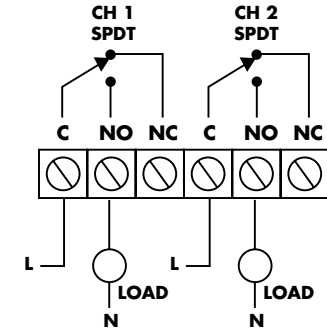


DG100A (208/240VAC)

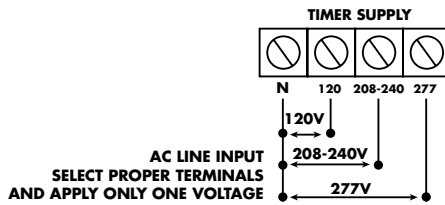
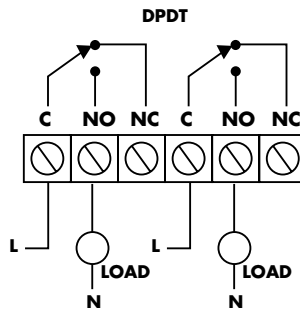


# DIGITAL Wiring Diagrams

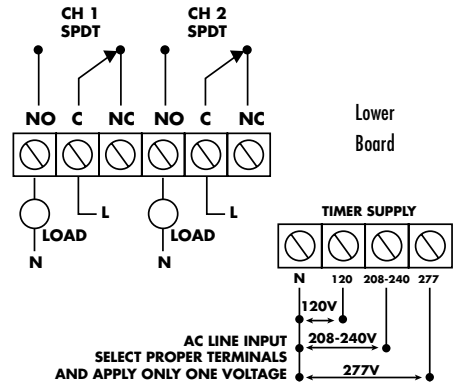
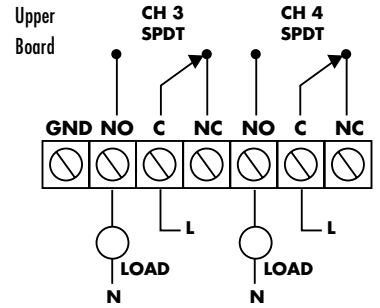
DTS200B



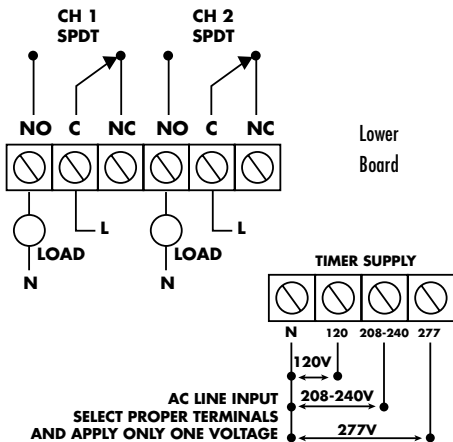
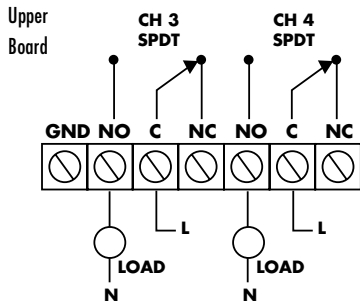
DZS100BP



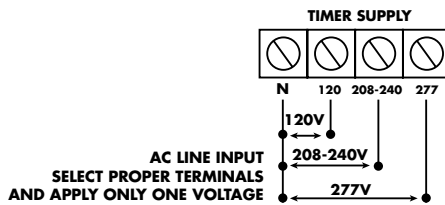
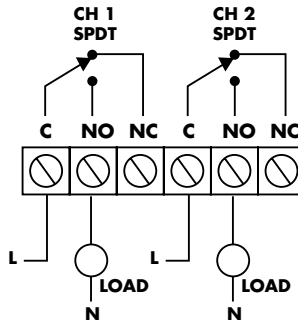
DZS400BP



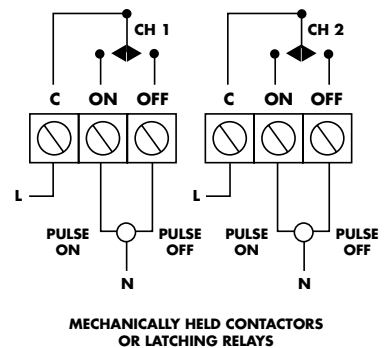
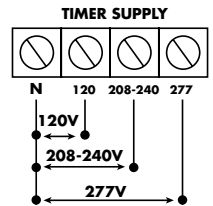
DTS400B



DZS200BP

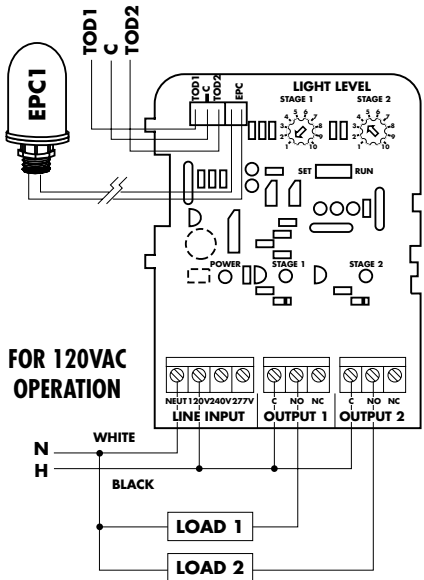


DZM200BP



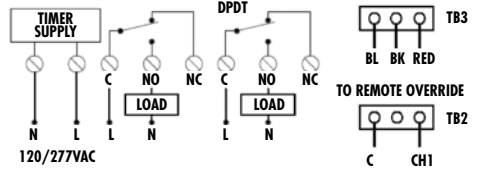
# DIGITAL Wiring Diagrams

LC2000 Series

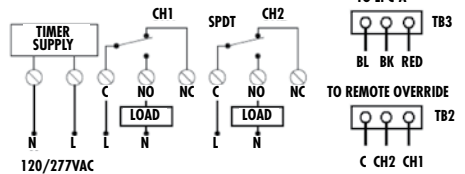


DGLC Series

DGLC100A



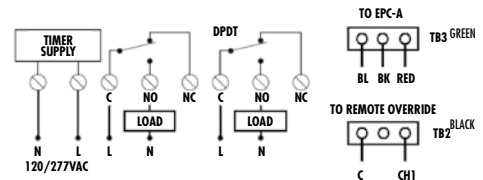
DGLC200A



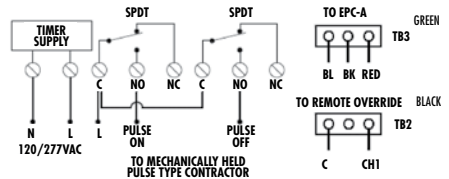
ELC Series

DGLU Series

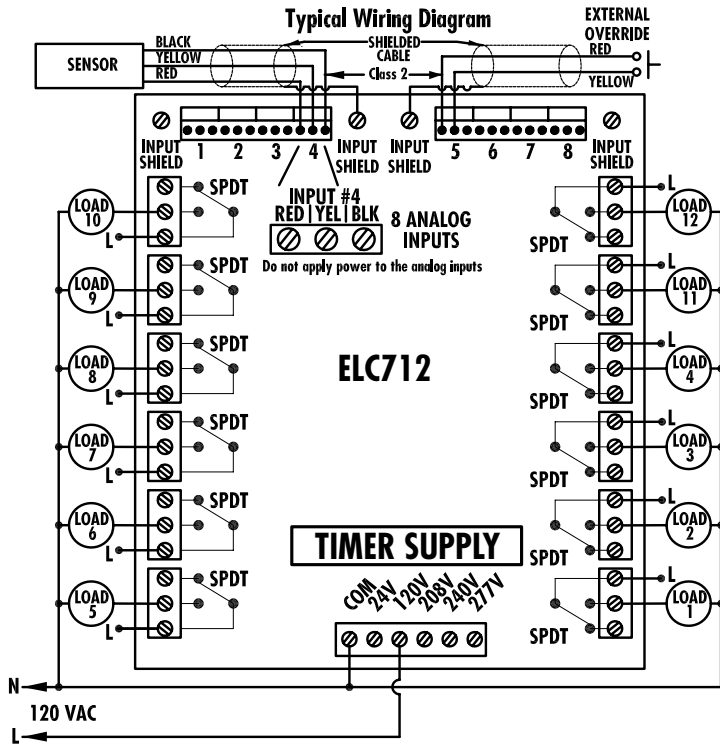
DGU100A



DGUM100A

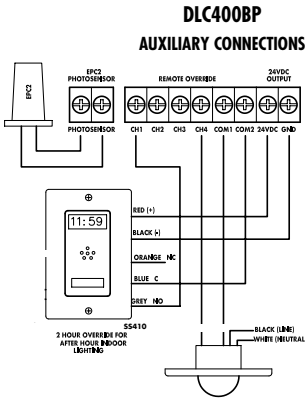


Typical Wiring Diagram

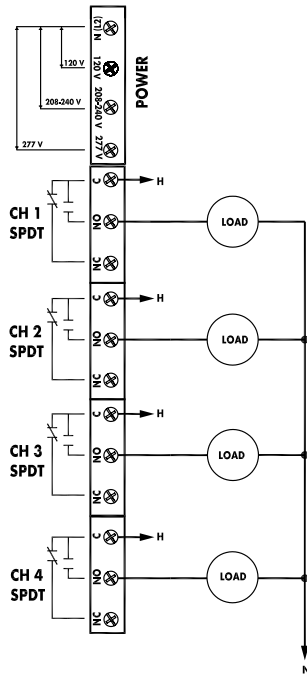


# DIGITAL Wiring Diagrams

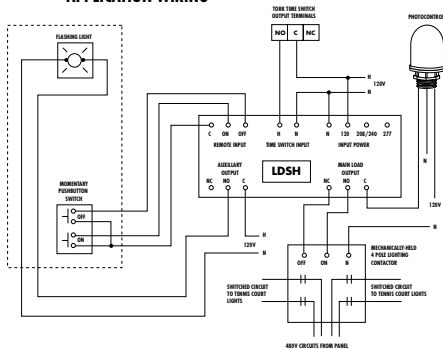
DLC400BP



**TORK DIGITAL CONTROL  
TERMINAL BLOCK**

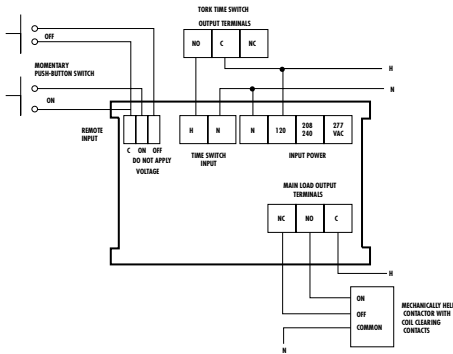
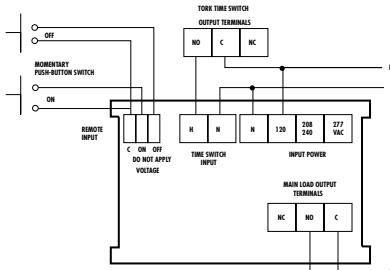


**APPLICATION WIRING**

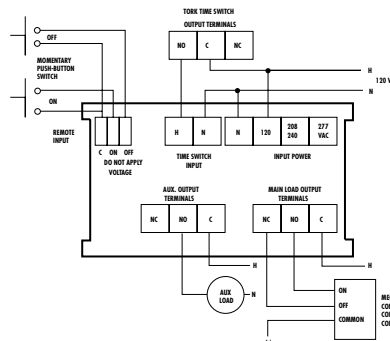
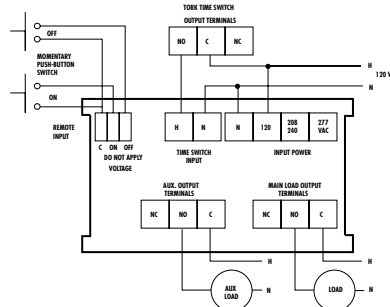


LD Series

**LDS WIRING**

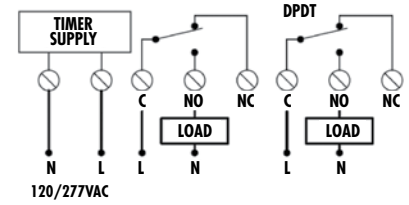


**LDSH WIRING**

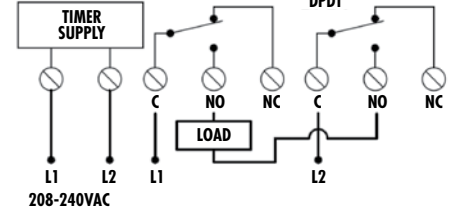


DGS Series

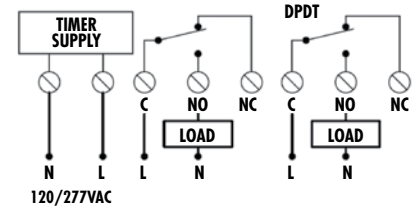
**DGS100A  
FOR 120V/277VAC**



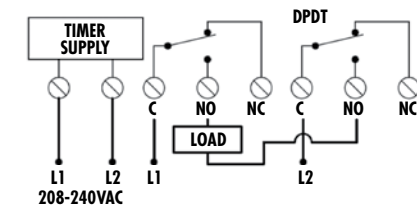
**DGS100A  
FOR 208-240VAC**



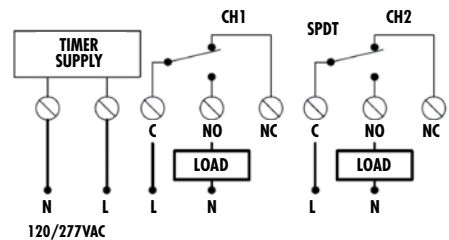
**DG180A  
FOR 120V/277VAC**



**DG180A  
FOR 208-240VAC**



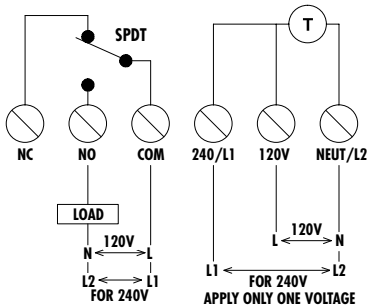
DG280A



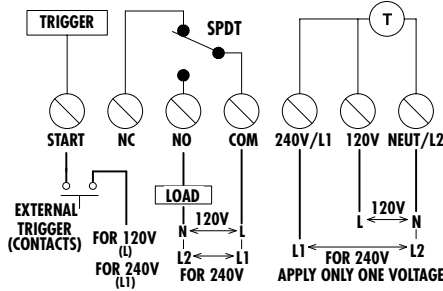
TORK® DIGITAL PRODUCTS

# DIGITAL Wiring Diagrams

EJWT & E500T Series

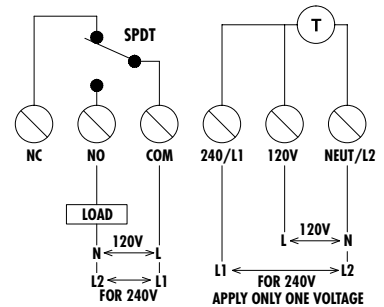


Use copper conductors. For supply connections use AWG #12 wire rated for at least 90°C (194°F) or equivalent.



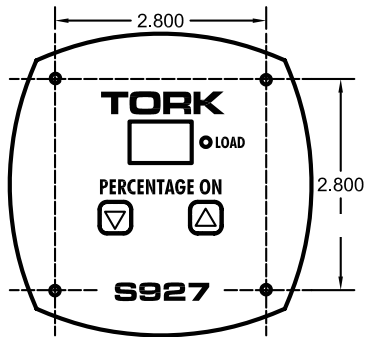
Use copper conductors. For supply connections use AWG #12 wire rated for at least 90°C (194°F) or equivalent.

ACT30MA

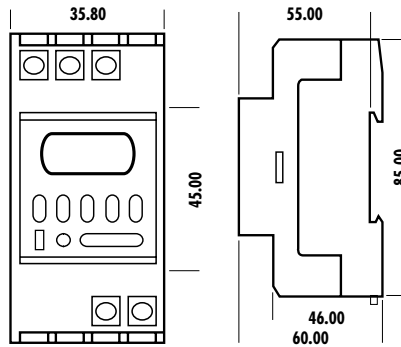


Use copper conductors. For supply connections use AWG #12 wire rated for at least 90°C (194°F) or equivalent.

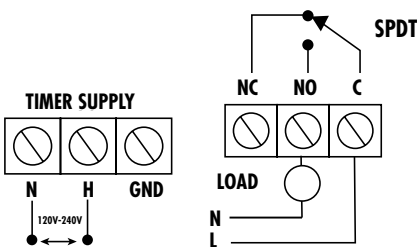
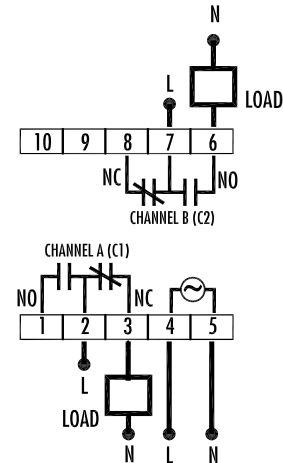
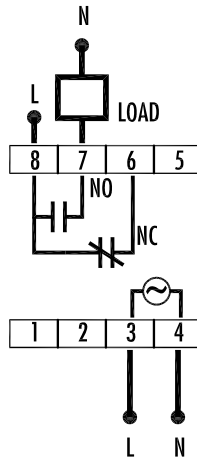
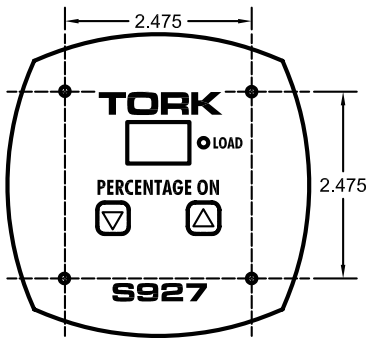
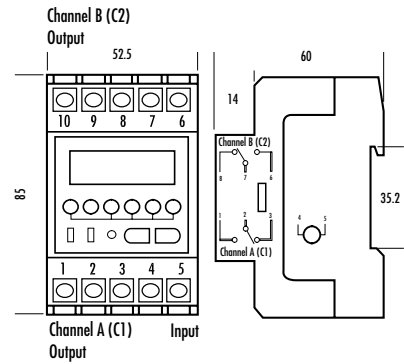
PCT15M



DIN100B

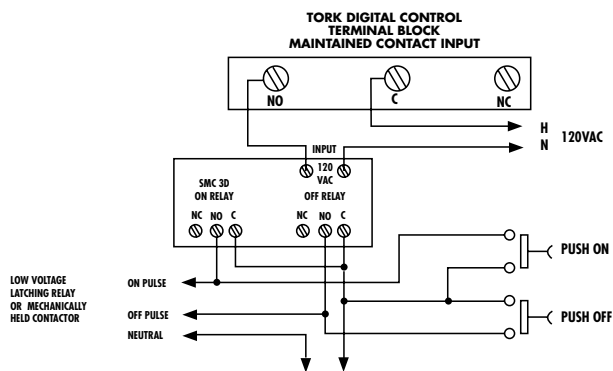


DIN200B

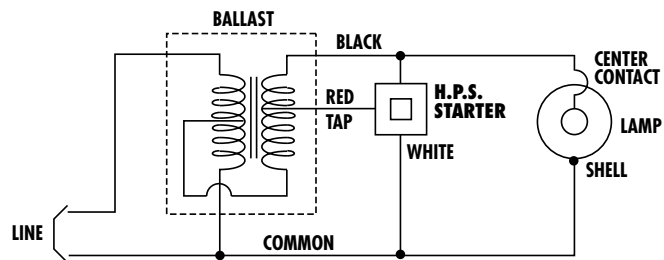


# DIGITAL Wiring Diagrams

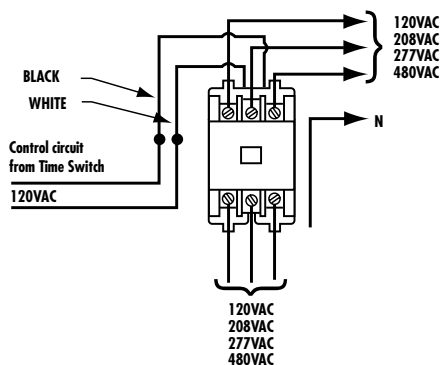
SMC Series



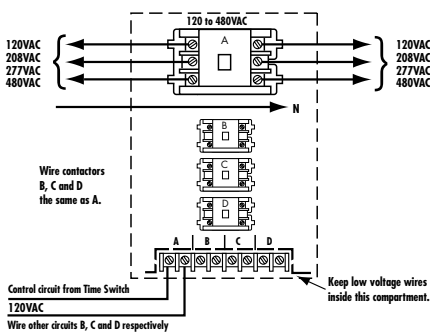
HPS Starter



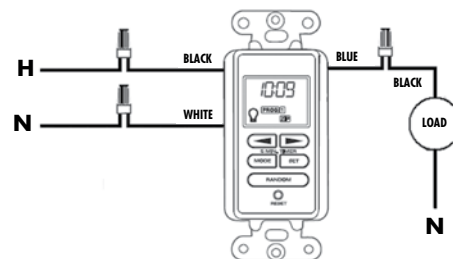
5401A



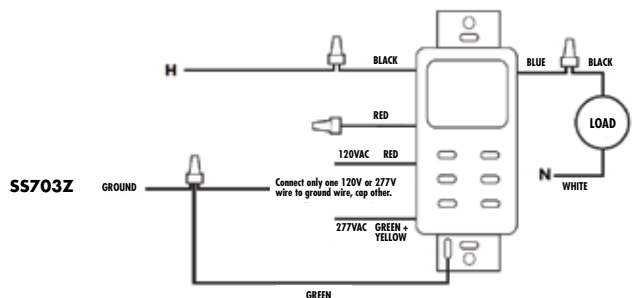
5441A



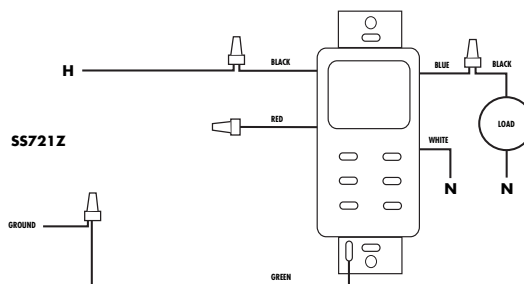
SA170 Series



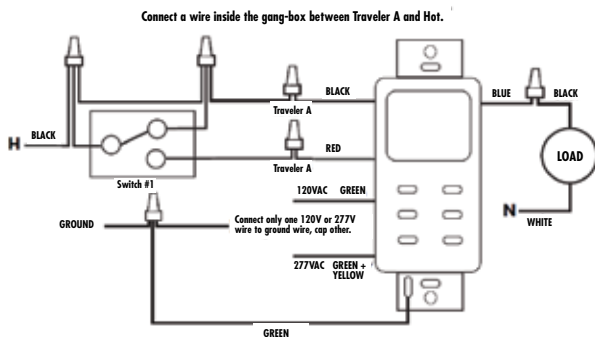
SS700Z Series



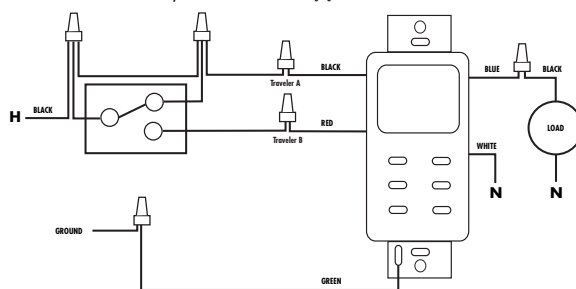
SS721Z



SS703Z



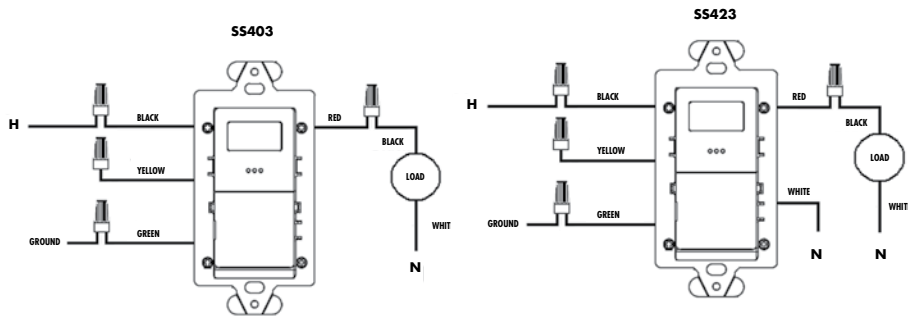
SS721Z Three-Way Installation: Connect a wire inside the gang-box between Traveler A and Hot.





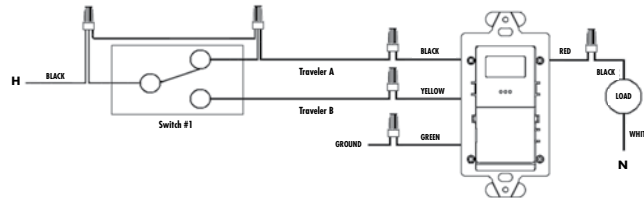
# DIGITAL Wiring Diagrams

## SS400 Series



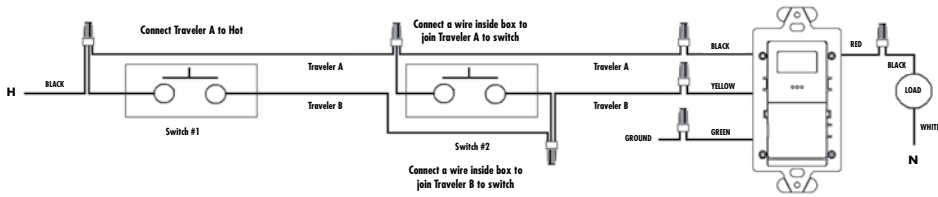
### SS403 Wiring for 3-Way

Connect a wire inside the gang-box between Traveler A and Hot.

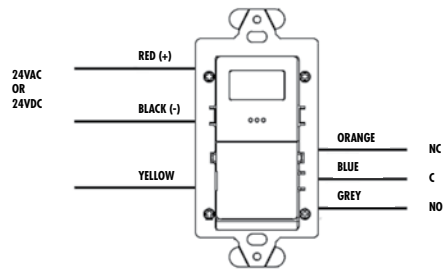


### SS403 Wiring for 4-Way

Use momentary switches at all additional locations.  
TORK #LCS115M

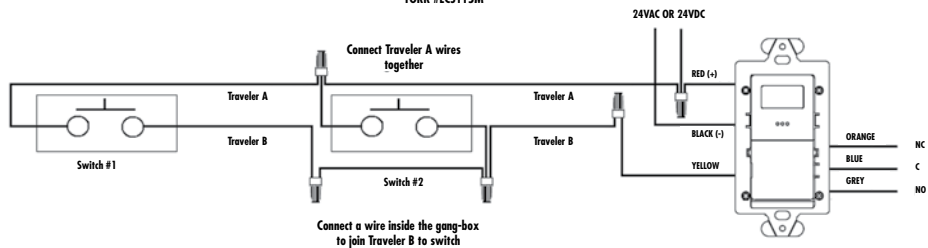


### SS410



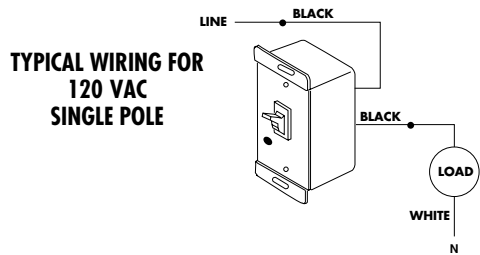
### SS410 Wiring for 4-Way

Use momentary switches at all additional locations.  
TORK #LCS115M



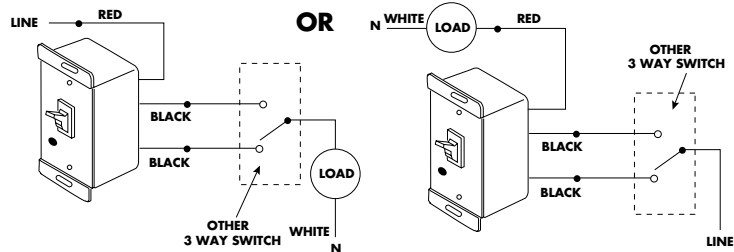
# DIGITAL Wiring Diagrams

SS Series

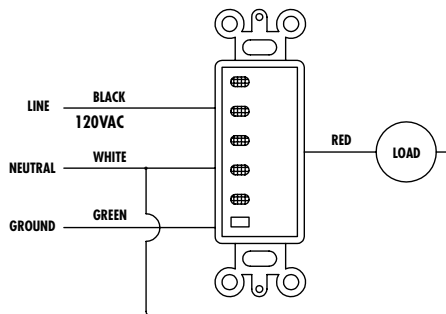


SS Series

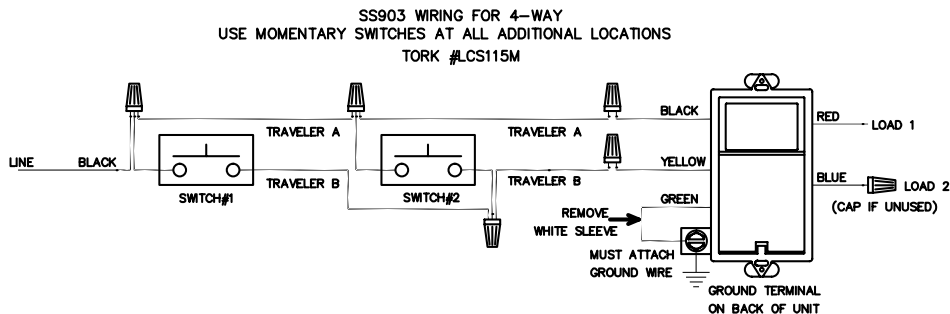
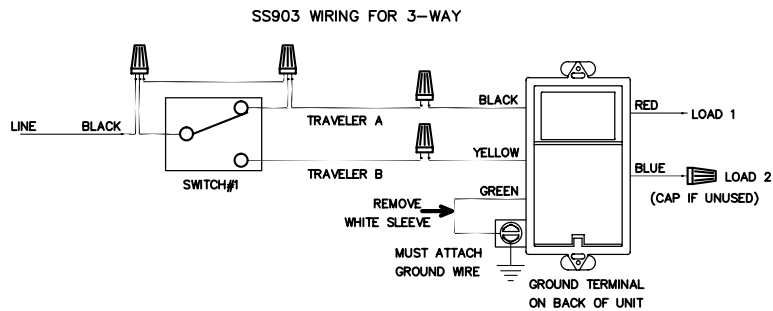
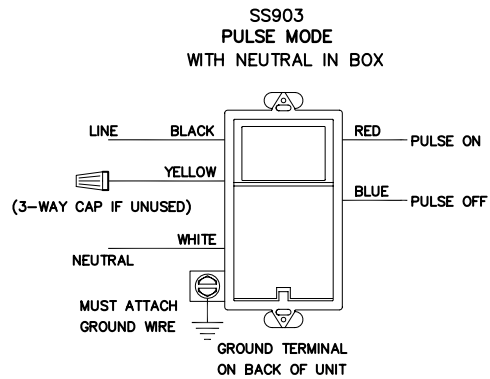
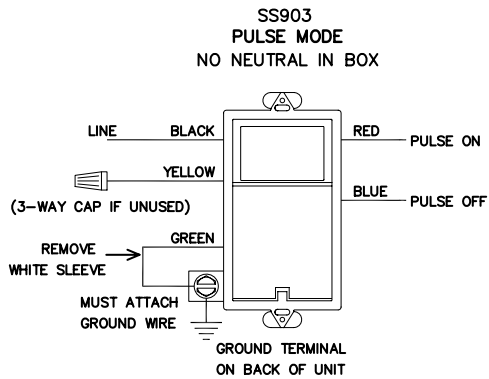
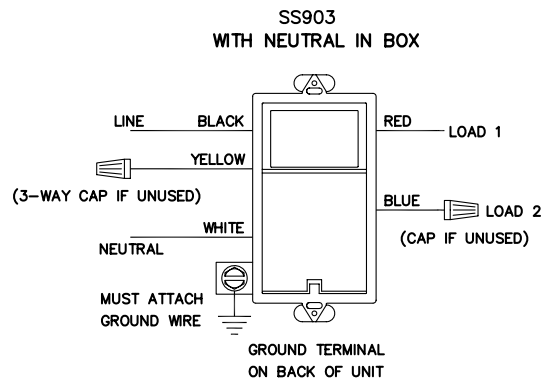
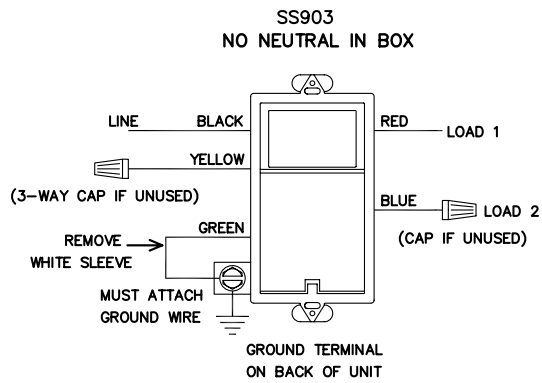
**TYPICAL WIRING FOR 120 VAC – 3 WAY (Red is common)**



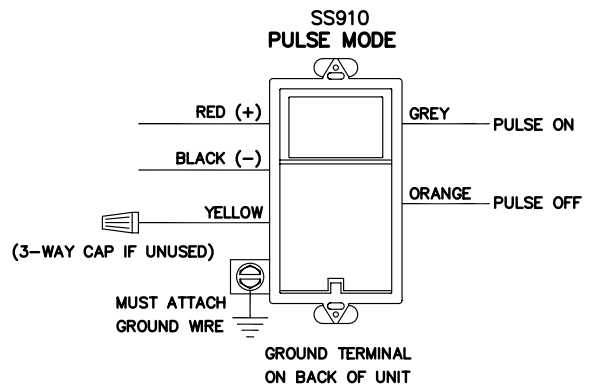
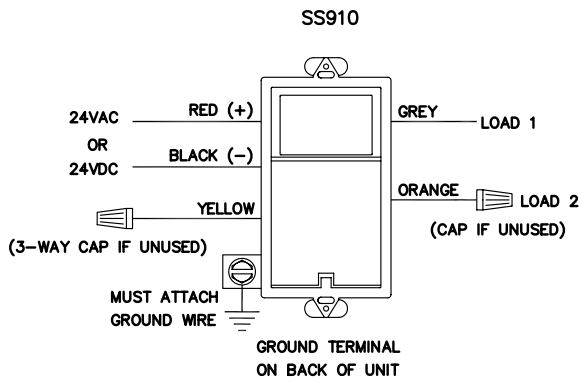
D Series



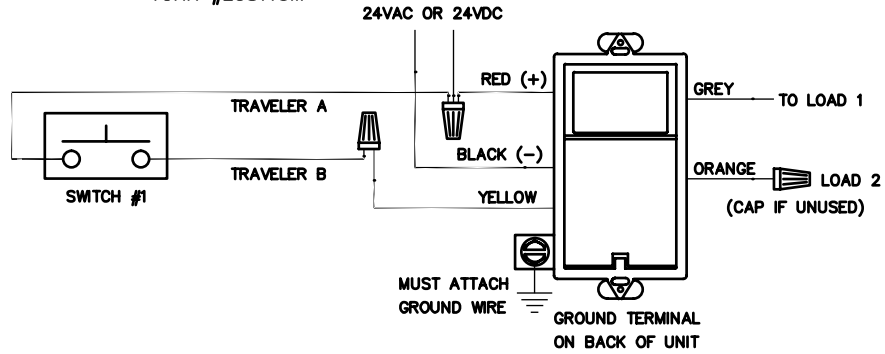
# DIGITAL Wiring Diagrams



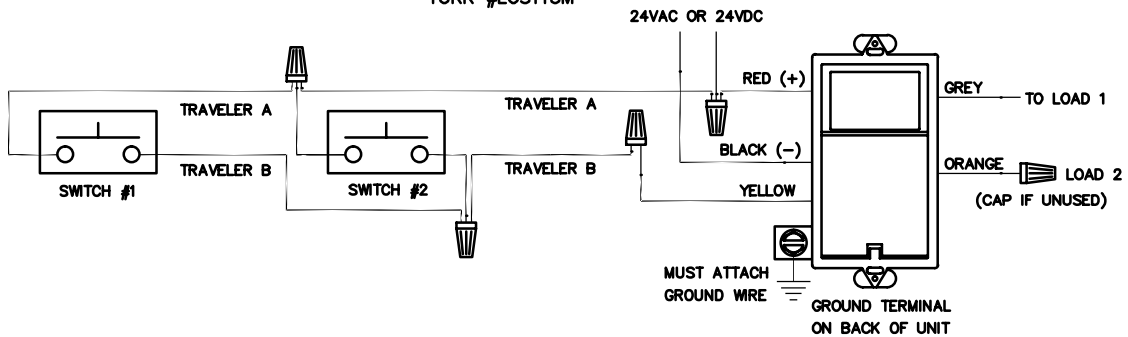
# DIGITAL Wiring Diagrams



**SS910 WIRING FOR 3-WAY**  
 USE MOMENTARY SWITCHES AT ALL ADDITIONAL LOCATIONS  
 TORK #LCS115M



**SS910 WIRING FOR 4-WAY**  
 USE MOMENTARY SWITCHES AT ALL ADDITIONAL LOCATIONS  
 TORK #LCS115M







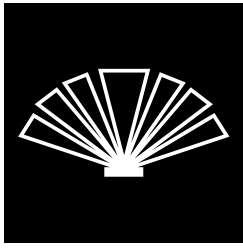
# TORK® OCCUPANCY SENSORS





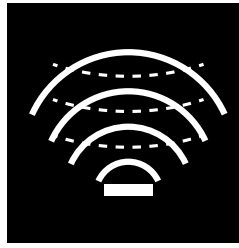


# SENSOR TECHNOLOGY & PLACEMENT GUIDE



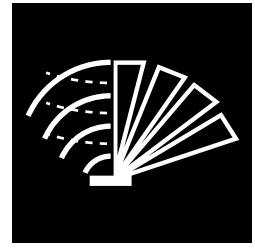
Passive Infrared

Passive Infrared senses occupancy using bands of infrared to recognize body heat and the movement between sensing bands. This is the most widely used technology which provides low cost and consistent function. Physical obstructions such as filing cabinets can block the ability for the sensor to pick up motion.



Ultrasonic

Ultrasonic senses movement by filling the space with an inaudible sound wave. Movement within the space changes the return sound signal and is interpreted as movement. The technology is more sensitive to minor motion. Any object that moves in the space will be detected and the space is then considered occupied.



Dual Technology

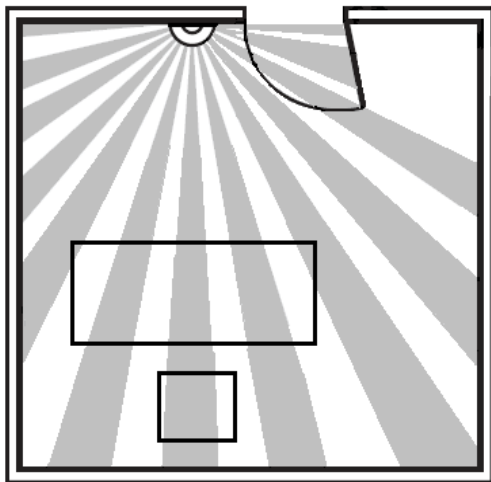
Dual Technology uses both passive infrared and ultrasonic to combine the best performance characteristics of each. Utilizing either technology to keep the lights ON, it minimizes unexpected turn OFF. Requires both technologies to recognize movement to turn lights ON minimizes false ON errors.

## PLACEMENT GUIDELINES

### WALL SENSOR

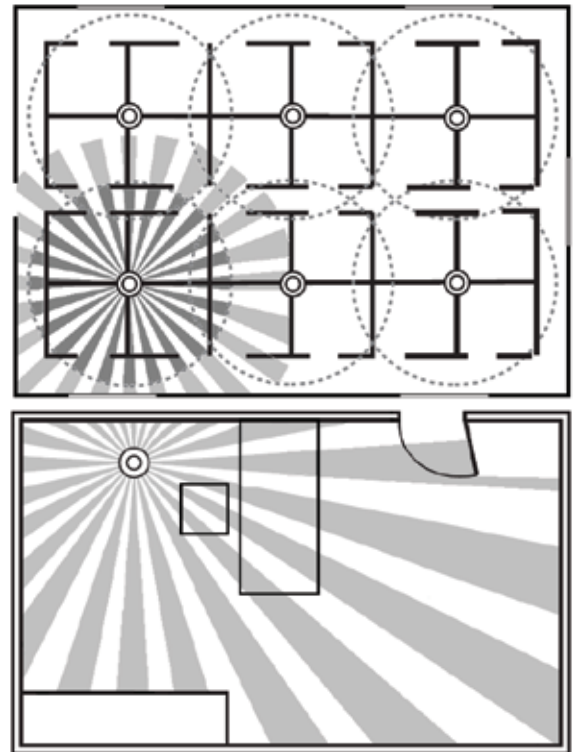
A *Wall Switch Sensor* provides a 180° coverage pattern, extending outward from the sensor. This will allow for instant turn ON when an occupant enters the space. Total area covered will be over 400 square feet.

- Proper placement gives the sensor a clear line of sight to the entry door without viewing the hallway.
- The occupant must be able to see the sensor from their normal work position otherwise the sensor will not be able to detect their presence.
- For offices where there are other obstructions between the sensor and the occupant or the entry door, a ceiling sensor is required.



### CEILING SENSOR

A *Ceiling Sensor* provides a 360° coverage pattern of up to 1200 square feet when using passive infrared only. Barriers within the space that block line-of-sight to sensor detection will decrease coverage area when using passive infrared by itself, ultrasonic or dual technology will allow the sensor to get around the obstructions.



# OCCUPANCY SENSORS

## PIR Wall Switch

WOS Series



### SPECIFICATIONS

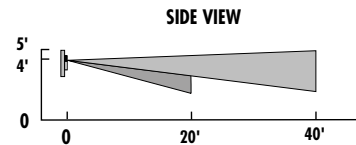
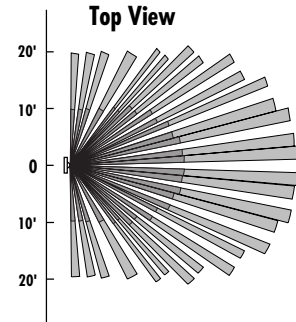
- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Warranty: 3 YRS.

### APPLICATIONS

- Office areas.
- Meeting rooms.
- Equipment room and storage spaces.

### FEATURES

- **Software Set:** Completely customizable functions through button push programming.
- **Modes:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Tamper Resistant:** Captive button, rugged lens, and optional disable button function for public areas. Use in bathrooms to avoid manual off condition for occupant as another person leaves.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **Color:** White (single gang decorator wall plate included).
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



180° Field of View



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COVERAGE<br>Sq. Ft. | WIRING           | RATING   |                             |        |
|----------|---------------|----------|------------------------|---------------------|------------------|----------|-----------------------------|--------|
|          |               |          |                        |                     |                  | TUNGSTEN | ELECTRONIC BALLAST<br>(LED) | MOTOR  |
| WOS-SN   | cULus         | 98213    | 120                    | 1200                | Requires neutral | 800W     | 1000W                       | 1/4 HP |

# OCCUPANCY SENSORS

## PIR Wall Switch

WOS-M Series



### SPECIFICATIONS

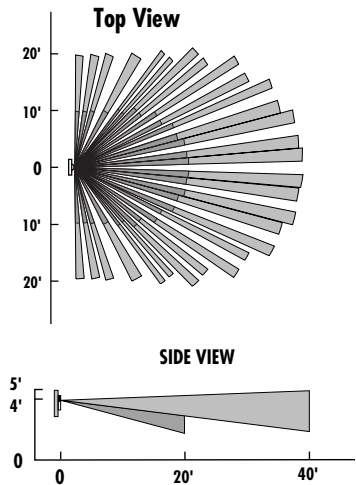
- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Warranty: 5 YRS.

### APPLICATIONS

- Office areas, meeting rooms.
- Equipment room and storage spaces.
- New construction & retrofit.

### FEATURES

- **Software Set:** Completely customizable functions through button push programming.
- **Modes:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Daylight Photosensor:** Optional light-level turn off from 5 to 200fc. Save energy if windows provide enough light.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Tamper Resistant:** Captive button, rugged lens, and optional disable button function for public areas. Use in bathrooms to avoid manual off condition for occupant as another person leaves.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **Color:** White (single gang decorator wall plate included).
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



180° Field of View



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COVERAGE<br>Sq. Ft. | WIRING              | TUNGSTEN | RATING                                   |              |
|----------|---------------|----------|------------------------|---------------------|---------------------|----------|--|--------------|
|          |               |          |                        |                     |                     |          | ELECTRONIC BALLAST<br>(LED)              | MOTOR        |
| WOS-M    | cULus         | 98217    | 120/230/277            | 1200                | No Neutral Required | 800W     | 1000W @ 120<br>1500W @230<br>1800W @ 277 | 1/4 HP @ 120 |
| WOS-MN   | cULus         | 98215    | 120/230/277            | 1200                | Requires Neutral    | 800W     | 1000W @ 120<br>1500W @230<br>1800W @ 277 | 1/4 HP @ 120 |

TORK® OCCUPANCY SENSORS

# OCCUPANCY SENSORS

## PIR Wall Switch Two Relay

WOS-M2R Series



### SPECIFICATIONS

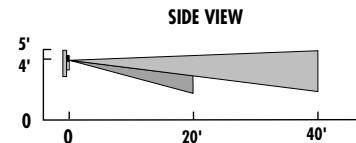
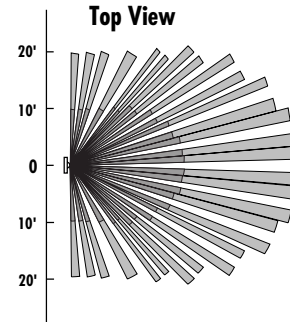
- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Warranty: 5 YRS.

### APPLICATIONS

- Office areas, meeting rooms.
- Equipment room and storage spaces.
- New construction & retrofit.

### FEATURES

- **Software Set:** Completely customizable functions through button push programming. Each relay can have different settings.
  - **Bathroom Mode:** set fan relay time delay longer than lighting relay.
  - **Two Step Light Level:** set each relay to turn off at different daylighting levels
  - **Public Areas:** Disable one relay button manual OFF function. Use in bathrooms to avoid full off condition for occupant as another person leaves.
- **Modes:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Daylight Photosensor:** Optional light-level turn off from 5 to 200fc. Save energy if windows provide enough light.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Tamper Resistant:** Captive button, rugged lens, and optional disable button function for public areas.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **Color:** White (single gang decorator wall plate included).
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



180° Field of View



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COVERAGE<br>Sq. Ft. | WIRING              | TUNGSTEN | RATING                                    |              |
|----------|---------------|----------|------------------------|---------------------|---------------------|----------|---|--------------|
|          |               |          |                        |                     |                     |          | ELECTRONIC BALLAST<br>(LED)               | MOTOR        |
| WOS-M2R  | cULus         | 98221    | 120/230/277            | 1200                | No Neutral Required | 800W     | 1000W @ 120<br>1500W @ 230<br>1800W @ 277 | 1/4 HP @ 120 |
| WOS-MN2R | cULus         | 98219    | 120/230/277            | 1200                | Requires Neutral    | 800W     | 1000W @ 120<br>1500W @ 230<br>1800W @ 277 | 1/4 HP @ 120 |



# OCCUPANCY SENSORS

## Ultrasonic & PIR Wall Switch

WOS-MN2T Series



### SPECIFICATIONS

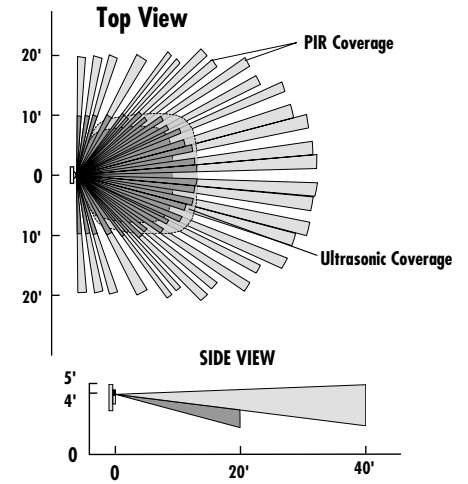
- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Warranty: 5 YRS.

### APPLICATIONS

- Office areas, meeting rooms.
- Equipment room and storage spaces.
- New construction & retrofit.

### FEATURES

- **Software Set:** Completely customizable functions through button push programming.
  - **Initial On:** customize and set one technology only to trigger turn on.
  - **Maintain On:** customize and set one technology to keep lights on.
  - **Public Areas:** Disable button manual OFF function. Use in bathrooms to avoid full off condition for occupant as another person leaves.
- **Modes:** Four selectable modes: Automatic On/Off, Manual On (vacancy), energy saving Walk Through, or Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Daylight Photosensor:** Optional light-level turn off from 5 to 200fc. Save energy if windows provide enough light.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Tamper Resistant:** Captive button, rugged lens, and optional disable button function for public areas.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Sensor Choices:** Factory default setting allows either technology to trigger the unit. Optional is a disable function of one technology for initial and/or maintain on operations.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **Color:** White (single gang decorator wall plate included).
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COVERAGE<br>Sq. Ft.             | WIRING           | RATING   |  |              |
|----------|---------------|----------|------------------------|---------------------------------|------------------|----------|--|--------------|
|          |               |          |                        |                                 |                  | TUNGSTEN | ELECTRONIC BALLAST<br>(LED)              | MOTOR        |
| WOS-MN2T | cULus         | 98223    | 120/230/277            | 1200 (PIR)<br>400 (Ultra-sonic) | Requires neutral | 800W     | 1000W @ 120<br>1500W @230<br>1800W @ 277 | 1/4 HP @ 120 |

TORK® OCCUPANCY SENSORS

# OCCUPANCY SENSORS

## Ultrasonic & PIR Ceiling Mount

### COS-L2T Series



#### SPECIFICATIONS

- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Power Supply: TRP-241 or TRP-24B power packs provided separately.
- Warranty: 5 YRS.

#### ACCESSORIES

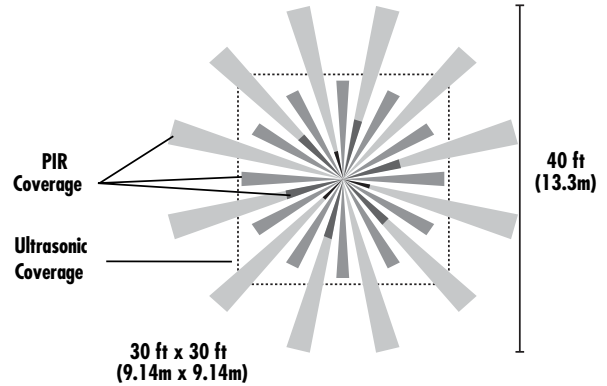
- COS-ADP: 1/2" pendant/side mounting adapter.
- TRP-241: See page 413.

#### APPLICATIONS

- Large office areas, large meeting rooms.
- Class rooms, bathroom & storage spaces.

#### FEATURES

- **Software Set:** Completely customizable functions through button push programming.
  - **Initial On:** customize and set one technology only to trigger turn on.
  - **Maintain On:** customize and set one technology to keep lights on.
- **Modes:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Coverage Area:** Adjustable for three steps of sensitivity for ultrasonic and two steps for PIR.
- **Sensor Choices:** Factory default setting allows either technology to trigger the unit. Optional disable function of one technology for initial and/or maintain on operations.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **TRP Output:** TRP series is required to power the COS-L2T. A maximum of six Tork occupancy sensors may be connected.
- **Mounting:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with 1/2" threaded nipple.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COVERAGE<br>Sq. Ft.             | CURRENT<br>CONSUMPTION | DESCRIPTION |
|----------|---------------|----------|------------------------|---------------------------------|------------------------|-------------|
| COS-L2T  | cULus         | 98207    | 24VDC                  | 1200 (PIR)<br>900 (Ultra-sonic) | 9mA                    | White       |



# OCCUPANCY SENSORS

## PIR Ceiling Mount

COS-L Series



### SPECIFICATIONS

- **Operating Temperature:** 32 °F to 131 °F (0 °C to 55 °C).
- **Power Supply:** TRP-241 or TRP-24B power packs provided separately.
- **Warranty:** 5 YRS.

### ACCESSORIES

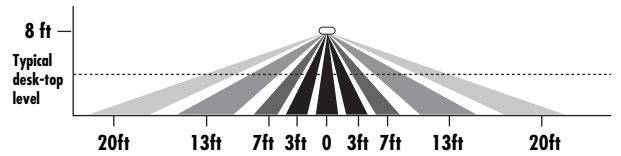
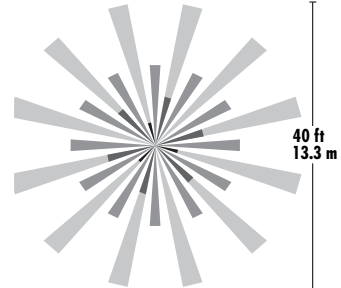
- **COS-ADP:** 1/2" pendant/side mounting adapter.
- **TRP-241:** See page 413.

### APPLICATIONS

- Large office areas, large meeting rooms.
- Class rooms, equipment room & storage spaces.

### FEATURES

- **Software Set:** Completely customizable functions through button push programming.
- **Modes:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **TRP Output:** TRP series is required to power the COS-L. A maximum of six Tork occupancy sensors may be connected.
- **Mounting:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with 1/2" threaded nipple.



### ACCESSORIES

COS-ADP

TRP-241/TRP-24B



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COVERAGE<br>Sq. Ft. | CURRENT<br>CONSUMPTION | DESCRIPTION |
|----------|---------------|----------|------------------------|---------------------|------------------------|-------------|
| COS-L    | cULus         | 98203    | 24VDC                  | 1200                | 9mA                    | White       |

TORK® OCCUPANCY SENSORS



# OCCUPANCY SENSORS

## Ultrasonic Ceiling Mount

COS-LU Series



### SPECIFICATIONS

- **Operating Temperature:** 32 °F to 131 °F (0 °C to 55 °C).
- **Power Supply:** TRP-241 or TRP-24B power packs provided separately.
- **Warranty:** 5 YRS.

### ACCESSORIES

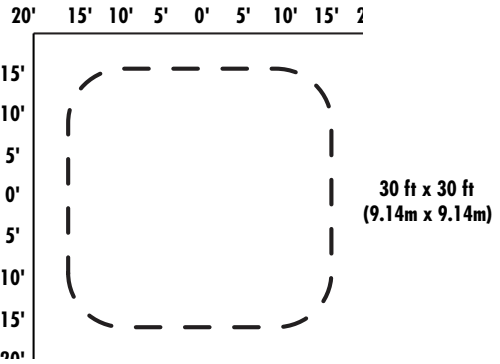
- **COS-ADP:** 1/2" pendant/side mounting adapter.
- **TRP-241:** See page 413.

### APPLICATIONS

- Large office areas, large meeting rooms.
- Class rooms, bathroom & storage spaces.

### FEATURES

- **Software Set:** Completely customizable functions through button push programming.
- **Modes:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **TRP Output:** TRP series is required to power the COS-LU. A maximum of six Tork occupancy sensors may be connected.
- **Mounting:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with 1/2" threaded nipple.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COVERAGE<br>Sq. Ft. | CURRENT<br>CONSUMPTION | DESCRIPTION |
|----------|---------------|----------|------------------------|---------------------|------------------------|-------------|
| COS-LU   | cULus         | 98205    | 24VDC                  | 900                 | 9mA                    | White       |

# OCCUPANCY SENSORS

## PIR Ceiling Mount, Line Voltage

### COS-M Series



#### SPECIFICATIONS

- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Power Supply: TRP-241 or TRP-24B power packs provided separately.
- Warranty: 5 YRS.

#### ACCESSORIES

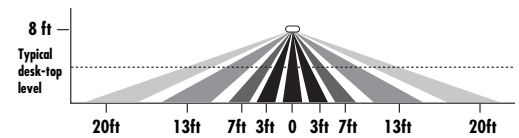
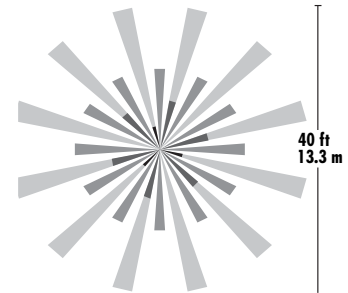
- COS-ADP: 1/2" pendant/side mounting adapter.
- TRP-241: See page 413.

#### APPLICATIONS

- Large office areas, large meeting rooms.
- Class rooms, equipment room & storage spaces.

#### FEATURES

- **Software Set:** Completely customizable functions through button push programming.
- **Modes:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **Mounting:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with 1/2" threaded nipple.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COVERAGE<br>Sq. Ft. | POWER SUPPLY | RATING   |  |              | DESCRIPTION |
|----------|---------------|----------|------------------------|---------------------|--------------|----------|--|--------------|-------------|
|          |               |          |                        |                     |              | TUNGSTEN | ELECTRONIC BALLAST<br>(LED)              | MOTOR        |             |
| COS-M    | cULus         | 98201    | 120/230/277            | 1200                | Built in     | 800W     | 1000W @ 120<br>1500W @230<br>1800W @ 277 | 1/4 HP @ 120 | White       |

TORK® OCCUPANCY SENSORS

# OCCUPANCY SENSORS

## PIR Ceiling Mount, Line Voltage

### HOS-M Series



#### SPECIFICATIONS

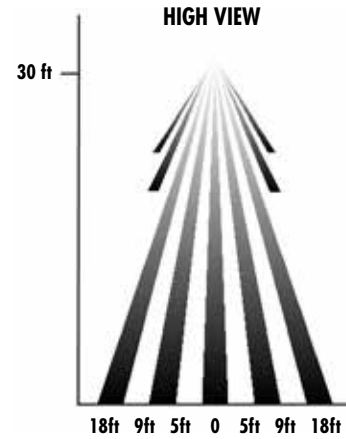
- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Warranty: 5 YRS.

#### APPLICATIONS

- Warehouse, tall aisle, High ceiling equipment room, storage spaces.

#### FEATURES

- **Software Set:** Completely customizable functions through button push programming.
- **Modes:** Three selectable modes: Automatic On/Off, energy saving Walk Through, and Test. Factory default setting is Automatic.
- **Time Delay:** 6 steps settings 5, 10, 15, 20, 25, and 30 minutes. Factory default setting is 10 minutes.
- **Flash Warning:** Optional load flicker 2 minutes before Off.
- **Coverage Area:** Preset for full coverage area. Optional half size area is selectable.
- **Test Mode:** Used for initial installation. Changes back to Auto mode within 30 minutes without resetting.
- **Mounting:** Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with 1/2" threaded nipple. Also mounts direct to box or ceiling.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COVERAGE<br>Sq. Ft. | POWER SUPPLY | TUNGSTEN | RATING                                   |              | DESCRIPTION |
|----------|---------------|----------|------------------------|---------------------|--------------|----------|--|--------------|-------------|
|          |               |          |                        |                     |              |          | ELECTRONIC BALLAST<br>(LED)              | MOTOR        |             |
| HOS-M    | cULus         | 98209    | 120/230/277            | 1200                | Built in     | 800W     | 1000W @ 120<br>1500W @230<br>1800W @ 277 | 1/4 HP @ 120 | White       |



# OCCUPANCY SENSORS

## Ceiling Mount, Photo Sensor

CPS-L Series



### SPECIFICATIONS

- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Power Supply: TRP-241 or TRP-24B power packs provided separately.
- Warranty: 5 YRS.

### ACCESSORIES

- COS-ADP: 1/2" pendant/side mounting adapter.
- TRP-241: See page 413.

### APPLICATIONS

- Side window areas of offices.
- Spaces with skylights, classrooms.

### FEATURES

- Software Set: Completely customizable functions through button push programming.
- Light Level Setting: Light level between 5 to 200 fc.
- TRP Output: TRP series is required to power the CPS-L. A maximum of 12 Tork power packs may be connected.
- Mounting: Mounts direct to box or ceiling. Available is optional adapter for pendant or side mounting with 1/2" threaded nipple.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | CURRENT<br>CONSUMPTION | DESCRIPTION |
|----------|---------------|----------|------------------------|------------------------|-------------|
| CPS-L    | cULus         | 98211    | 24VDC                  | 9mA                    | White       |

# OCCUPANCY SENSORS

## Power Packs

### TRP-24 Series



#### SPECIFICATIONS

- Operating Temperature: 32 °F to 131 °F (0 °C to 55 °C).
- Warranty: 5 YRS.

#### ACCESSORIES

- LCS115M: Momentary Switch SPST.

#### APPLICATIONS

- Power and switching for occupancy or light sensors
- Power and switching for SS410 auto-off switch
- BAS compatible, demand shedding applications
- Low cost momentary switching of loads

#### FEATURES

- **Operation:** Switches line voltage loads ON/OFF based on a contact closure from an occupancy sensor, AUTO OFF switch, or relay.
- **Sensor Control:** Three wires for typical device control. Red and black wires for 24VDC output to power a device. Blue control wire to receive ON/OFF signal back from device.
- **TRP-24B Input:** Two additional input wires to control TRP.
  1. ON from momentary switch.
  2. OFF from momentary switch.
- **TRP-24I Input:** Four additional input wires to control TRP.
  1. Hold OFF for demand shed control.
  2. Hold ON override.
  3. ON from momentary switch.
  4. OFF from momentary switch.
- **TRP Output:** TRP series is a Class 2 Power Supply with 150mA output. A maximum of six TORX® COS-L type occupancy sensors may be connected.
- **Mounting:** Box mount to 1/2" KO.
- **Enhanced Switching:** Inrush current limiting technology protects relay contacts for extended life with zero cross type switching.

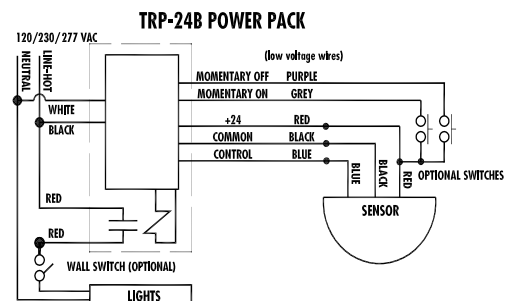
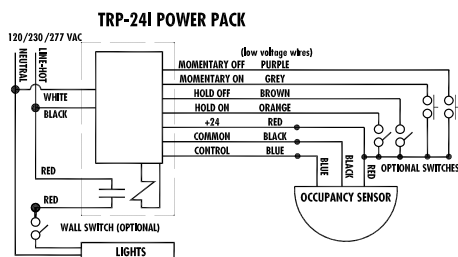
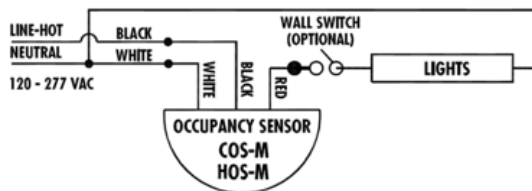
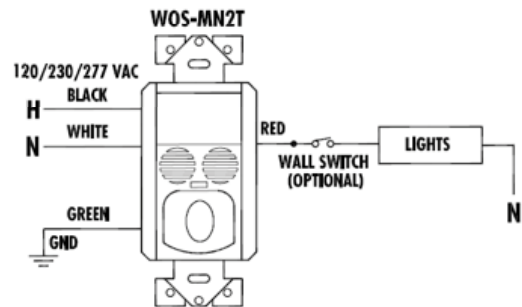
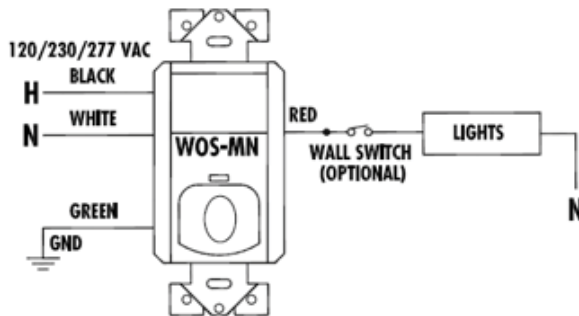
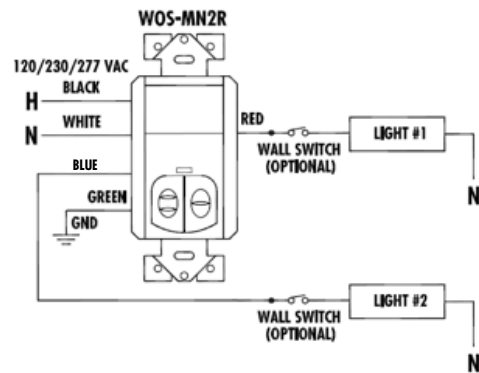
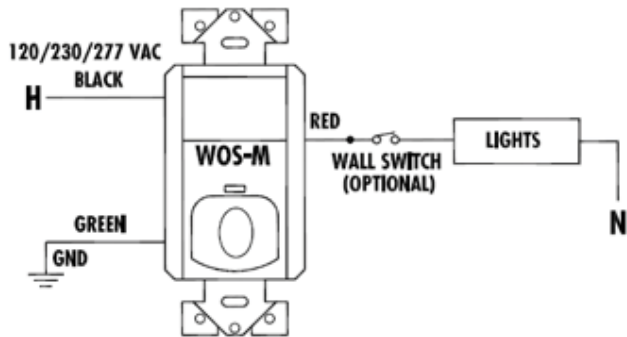
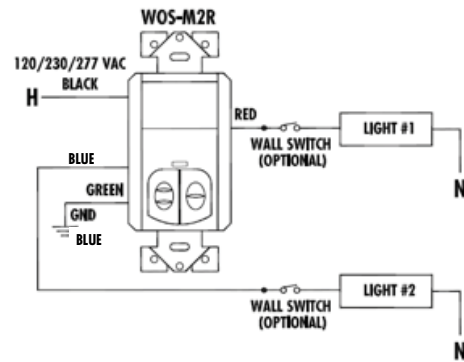
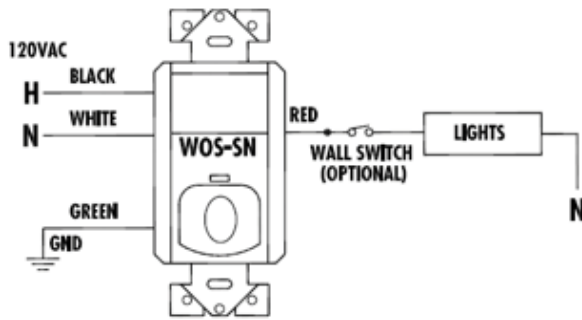
#### ACCESSORY

##### LCS115M

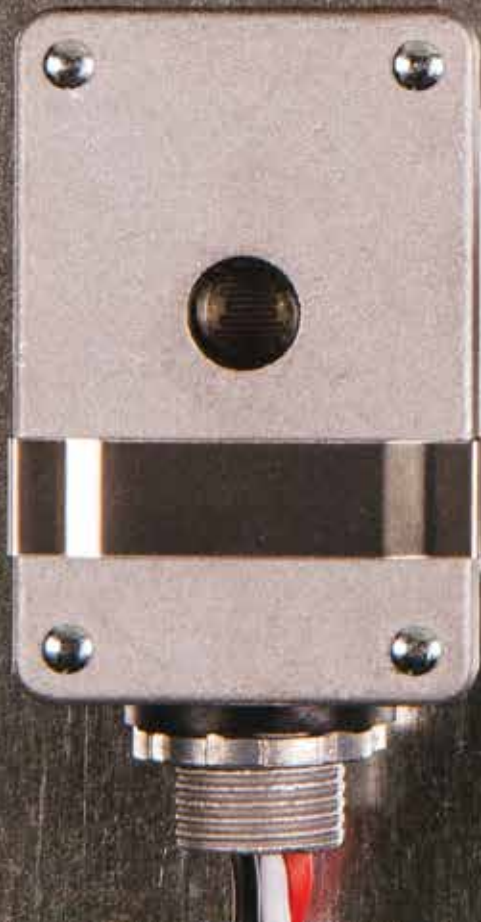


| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | OUTPUT CONTACTS | RATING       |         |            |
|----------|---------------|----------|------------------------|-----------------|--------------|---------|------------|
|          |               |          |                        |                 | INCANDESCENT | BALLAST | MOTOR      |
| TRP-24B  | —             | 98225    | 120/230/277VAC         | SPST            | 15A @120     | 20A     | 1 HP @ 120 |
| TRP-24I  | —             | 98227    | 120/230/277VAC         | SPST            | 15A @120     | 20A     | 1 HP @ 120 |

# OCCUPANCY SENSORS Wiring Diagrams









# TORK<sup>®</sup> PHOTOCONTROL



# QUICK REFERENCE GUIDE

|                        | 3000 SERIES | 2100 SERIES   | 2110 SERIES       | 2000 SERIES | 2001/ 2020 SERIES | 5000M SERIES          | 2005A SERIES          | 5200A SERIES            | 2005B SERIES            | 5200-UL SERIES          | ZTL SERIES              | 5737 SERIES           |
|------------------------|-------------|---------------|-------------------|-------------|-------------------|-----------------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------|
| Page                   | 422         | 423           | 424               | 425         | 426/427           | 428                   | 429                   | 430                     | 431                     | 432                     | 433                     | 434                   |
| Mounting               | Flush       | Conduit       | Conduit           | Conduit     | Conduit           | Turn-Lock             | Turn-Lock             | Turn-Lock               | Turn-Lock               | Turn-Lock               | Turn-Lock               | Turn-Lock             |
| Adjustable Swivel      |             |               |                   |             | Yes               |                       |                       |                         |                         |                         |                         |                       |
| Housing                | Lexan®      | Die Cast Zinc | Die Cast Aluminum | Lexan®      | Lexan®            | UV Stabilized Plastic | UV Stabilized Plastic | UV Stabilized Plastic   | UV Stabilized Plastic   | UV Stabilized Plastic   | UV Stabilized Plastic   | UV Stabilized Plastic |
| Turn ON Light Level    | 1 - 5 fc    | 1 - 5 fc      | 1 - 5 fc          | 1 - 5 fc    | 1 - 5 fc          | 1 to 3 fc             | 1 to 3 fc             | 1.5 fc                  | 1.5 fc                  | 1.5 fc                  | 1.5 fc                  | 5 fc                  |
| Light Level Adjustment |             | Yes           | Yes               | Yes         | Yes (2001)        |                       |                       |                         |                         |                         |                         |                       |
| Turn OFF Ratio         | 3:15 fc     | 3:15 fc       | 3:15 fc           | 3:15 fc     | 3:15 fc           | 5:1                   | 3:1                   | 1.5:1                   | 1.5:1                   | 1.5:1                   | 1.5:1                   | 1.5:1                 |
| Time Delay ON          | Yes         | Yes           | Yes               | Yes         | Yes               | Yes                   | Instant               | Instant                 | Instant                 | Instant                 | Instant                 | Instant               |
| Time Delay OFF         | Yes         | Yes           | Yes               | Yes         | Yes               | Yes                   | Yes                   | Yes                     | Yes                     | Yes                     | Yes                     | Yes                   |
| Light Sensor           | CdS         | CdS           | CdS               | CdS         | CdS               | CdS                   | CdS                   | Filtered Silicon Sensor | Filtered Silicon Sensor | Filtered Silicon Sensor | Filtered Silicon Sensor | Silicon Sensor        |
| CFL Compatible         | Yes         | Yes           | Yes               | Yes         | Yes               | Yes                   | Yes                   | Yes                     | Yes                     | Yes                     | Yes                     | Yes                   |
| LED Rated              | Yes         | Yes           | Yes               | Yes         | Yes               |                       |                       |                         | Yes                     | Yes                     | Yes                     |                       |
| Surge Protection       |             | Yes (2129A)   |                   |             |                   | Yes                   | Yes                   | Yes                     | Yes                     | Yes                     | Yes                     | Yes                   |
| Photo Timer            |             |               |                   |             |                   |                       |                       |                         |                         |                         |                         | Yes                   |

## FEATURES



### 1. CONFORMAL COATED CDS SENSOR

Conformal coated cds photocell resists effects of moisture and airborne contaminants. Available in ½" and 1" size on both wired and turn-lock photocontrols. Excellent correlation with human eye spectral response.

### 2. SEALED IR FILTERED SENSOR

Non-drifting silicon light sensor filtered for human eye response. Molded design allows sensor to resist the effects of moisture and airborne contaminants. Available on turn-lock Photocontrols.

### 3. CHOICE OF MOUNTING ORIENTATION

Models are available in fixed position or 180° swivel.

### 4. TOUGH ENCLOSURES

All conduit and flush mounted models utilize die-cast zinc, die cast aluminum, or genuine Lexan® materials. All turn-lock models utilize high impact UV stabilized polypropylene, ABS, PBT or polycarbonate materials.

### 5. TURN-LOCK MEET ANSI C136.10

All models meet the current ANSI requirements for locking-type prongs and color coded voltage designations. Locking prongs are solid brass.

### ANSI Dome Color-Code

Grey - 105-130VAC  
 Maroon - 208-277VAC  
 Blue - 105-285VAC  
 Yellow - 480VAC  
 Green - 347VAC

### DEPENDABLE PERFORMANCE

Built-in time delay prevents false switching due to light from passing vehicles, lightning, etc.

### SURGE PROTECTION

New! A stem mount photocontrol with MOV protection: 2129A. All Turn-Lock style photocontrols include MOV protection.

### QUALITY ASSURANCE

**TORK®** Electromechanical Controls are designed and manufactured with components which adhere to the highest industry standards. Trained personnel and in-process quality procedures ensure that every unit meets our strictest quality expectations.

# PHOTOCONTROLS

## Flush Mount

Lexan® Housing

3000 Series



### SPECIFICATIONS

- **ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc.
- **Time Delay:** ON and OFF.
- **Cell:** Cadmium sulphide, conformal coated 1/2" diameter.
- **Contacts:** Normally closed.  
(The unit fails in the ON position).
- **Lead Wires:** Three color coded, minimum 9" wire leads, #16AWG, rated for 105 °C.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

### APPLICATIONS

- Pole lanterns.
- Lawn lighting.
- Walkways.

### FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.
- **Standards:** Meets ANSI/UL773A.
- **Housing:** Control housing is weather-resistant molded Lexan® with ultrasonically welded seams.
- **Model 3000:** Flush mounting through .6875" hole in post lantern or lighting fixture, 3/8" NPT, stem 3/4" long. Gasket and nut supplied.
- **Model 3010:** Flush mounting into standard, raintight junction box. Includes aluminum plate and gasket to fit FS type outdoor junction box.
- **Energy Savings:** Works with screw base CFLs.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | RATING     |             |             |
|----------|---------------|----------|------------------------|------------|-------------|-------------|
|          |               |          |                        | TUNGSTEN   | BALLAST     | LED         |
| 3000     | cULus         | 60020    | 120                    | 2000W      | 1800VA      | 600VA       |
| 3002     | cULus         | 60019    | 208-277                | 3470-4620W | 2080-2770VA | 1040-1385VA |
| 3006     | CSA           | 60026    | 347                    | 5760W      | 3470VA      | -           |
| 3010     | cULus         | 60021    | 120                    | 2000W      | 1800VA      | 600VA       |



# PHOTOCONTROLS

## 1/2" Conduit Mount

Specification Grade, Die Cast Zinc

2100 Series



### SPECIFICATIONS

- **ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.
- **Time Delay:** ON and OFF.
- **Cell:** Cadmium sulphide, epoxy conformal coated 1" diameter.
- **Contacts:** Remain closed between dusk and dawn. (The unit fails in the ON position).
- **Lead Wires:** 2101/2104 three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C. 2101A/2104A/2107 four color coded wires. 2107A/2129A five color coded wires.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

### APPLICATIONS

- Parking lots.
- Building perimeter lighting.
- Outdoor signage.

### FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.
- **Standards:** Meets ANSI/UL773A.
- **Housing:** Heavy Duty die cast zinc housing and base. Gasketed for maximum weather protection.
- **Energy Savings:** Works with screw base CFLs.
- **Surge Protection:** 2129A includes 190 joules MOV (Metal Oxide Varistor).

### ACCESSORIES

- **73866:** See page 434.



| CAT. NO.          | FIG. NO. | CERTIFICATION | UPC CODE | MOV  | VOLTAGE<br>VAC 50/60Hz | RATING           |                    |                         |
|-------------------|----------|---------------|----------|------|------------------------|------------------|--------------------|-------------------------|
|                   |          |               |          |      |                        | TUNGSTEN         | BALLAST            | LED                     |
| 2101              | 1        | UL            | 60012    | —    | 120                    | 2000W            | 1800VA             | 600VA (LED for UL only) |
| 2104              | 1        | CSA           | 60013    | —    | 208-277                | 2000W            | 1800VA             | 600VA (LED for UL only) |
| 2107              | 1        | CSA           | 60031    | —    | 120/277                | 2000W            | 1800VA             | 600VA (LED for UL only) |
| 2101A             | 2        | cULus         | 62037    | —    | 120                    | 2000W            | 1800VA             | 600VA                   |
| 2104A             | 2        | cULus         | 62038    | —    | 208-277                | 2000W            | 1800VA             | 600VA                   |
| 2107A             | 2        | cULus         | 62034    | —    | 120/208-277            | 2000W/3470-4620W | 1800VA/2080-2770VA | 600VA/1040-1385VA       |
| <b>NEW!</b> 2129A | 2        | cULus         | 60036    | 190J | 120/208-277            | 2000W/3470-4620W | 1800VA/2080-2770VA | 600VA/1040-1385VA       |

# PHOTOCONTROLS

## 1/2" Conduit Mount

Specification Grade, Die Cast Aluminum  
2110 Series



### APPLICATIONS

- Parking lot lighting.
- Building perimeter lighting.
- Outdoor signage.

### FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.
- **Standards:** Meets ANSI/UL773A.
- **Housing:** Die cast aluminum housing and base. Gasketed for weather protection.
- **Energy Savings:** Works with screw base CFLs.

### SPECIFICATIONS

- **ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.
- **Time Delay:** ON and OFF.
- **Cell:** Cadmium sulphide, epoxy conformal coated 1/2" diameter. Model 2117 and 2119A has a 1" photocell.
- **Contacts:** Remain closed between dusk and dawn. (The unit fails in the ON position).
- **Lead Wires:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C. 2119A five color coded wires, 2117 #10AWG red and black.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

### ACCESSORIES

- **73866:** See page 434.



| CAT. NO.          | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | RATING           |                    |                   |
|-------------------|---------------|----------|------------------------|------------------|--------------------|-------------------|
|                   |               |          |                        | TUNGSTEN         | BALLAST            | LED               |
| 2115              | cULus         | 60032    | 120                    | 2000W            | 1800VA             | 600VA             |
| 2116              | cULus         | 60033    | 208-277                | 3470-4620W       | 2080-2770VA        | 1040-1385VA       |
| 2117              | CSA           | 60037    | 120                    | 3000W            | 3000VA             | —                 |
| <b>NEW!</b> 2119A | cULus         | 62035    | 120/208-277            | 2000W/3470-4620W | 1800VA/2080-2770VA | 600VA/1040-1385VA |

# PHOTOCONTROLS

## 1/2" Conduit Mount

Fixed Position, Lexan® Housing

2000 Series



### SPECIFICATIONS

- **ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.
- **Time Delay:** ON and OFF.
- **Cell:** Cadmium sulphide, epoxy conformal coated 1/2" diameter.
- **Contacts:** Remain closed between dusk and dawn. (The unit fails in the ON position).
- **Lead Wires:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

### ACCESSORIES

- **73866:** See page 434.

### APPLICATIONS

- Flood Lamp, patio Lamp.
- Decorative lighting.

### FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.
- **Standards:** Meets ANSI/UL773A.
- **Housing:** All Lexan® enclosures are impact and vandal resistant. Translucent Lexan® Dome prolongs cell life by further screening out ultraviolet rays. Dome and base are ultrasonically welded for maximum strength.
- **Energy Savings:** Works with screw base CFLs.

#### ACCESSORY

73866



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | RATING     |             |             |
|----------|---------------|----------|------------------------|------------|-------------|-------------|
|          |               |          |                        | TUNGSTEN   | BALLAST     | LED         |
| 2000     | cULus         | 60017    | 120                    | 2000W      | 1800VA      | 600VA       |
| 2000-2   | cULus         | 60018    | 208-277                | 3470-4620W | 2080-2770VA | 1040-1385VA |

# PHOTOCONTROLS

## 1/2" Conduit Mount

### 180° Swivel, Lexan® Housing

#### 2001 Series



#### SPECIFICATIONS

- **ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc, without the slide in position. ON/OFF adjustment is easily made by moving a slide cover. No tools required.
- **Time Delay:** ON and OFF.
- **Cell:** Cadmium sulphide, epoxy conformal coated 1/2" diameter.
- **Contacts:** Remain closed between dusk and dawn. (The unit fails in the ON position).
- **Lead Wires:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

#### APPLICATIONS

- Flood Lamp.
- Patio Lamp.
- Decorative lighting.

#### FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.
- **Standards:** Meets ANSI/UL773A.
- **Housing:** All Lexan® enclosures are impact and vandal resistant. Translucent Lexan® Dome prolongs cell life by further screening out ultraviolet rays. Dome and base are ultrasonically welded for maximum strength.
- **Energy Savings:** Works with screw base CFLs.

#### ACCESSORIES

- **73866:** See page 434.

#### ACCESSORY

73866



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | RATING     |             |             |
|----------|---------------|----------|------------------------|------------|-------------|-------------|
|          |               |          |                        | TUNGSTEN   | BALLAST     | LED         |
| 2001     | cULus         | 60015    | 120                    | 2000W      | 1800VA      | 600VA       |
| 2002     | cULus         | 60016    | 208-277                | 3470-4620W | 2080-2770VA | 1040-1385VA |
| 2006     | CSA           | 60028    | 347                    | 5760W      | 3470VA      | —           |
| 2018     | —             | 62021    | 480                    | 7500W      | 4800VA      | —           |



# PHOTOCONTROLS

## 1/2" Conduit Mount

180° Swivel, Lexan® Housing

2020 Series



### SPECIFICATIONS

- **ON/OFF:** Turn ON is 1 to 5fc, Turn OFF is 3 to 15fc.
- **Time Delay:** ON and OFF.
- **Cell:** Cadmium sulphide, epoxy conformal coated 1/2" diameter.
- **Contacts:** Remain closed between dusk and dawn. (The unit fails in the ON position).
- **Lead Wires:** Three color coded, minimum 6" wire leads, #16AWG, rated for 105 °C.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

### ACCESSORIES

- **73866:** See page 434.

### APPLICATIONS

- Flood Lamp.
- Patio Lamp.
- Decorative lighting.
- Ideal for applications where it is essential to aim the photocell in an exact direction to sense natural light but avoid artificial light.

### FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.
- **Standards:** Meets ANSI/UL773A.
- **Housing:** All Lexan® enclosures are impact and vandal resistant, cover and base are ultrasonically welded for maximum strength.
- **Energy Savings:** Works with screw base CFLs.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | RATING     |             |             |
|----------|---------------|----------|------------------------|------------|-------------|-------------|
|          |               |          |                        | TUNGSTEN   | BALLAST     | LED         |
| 2021     | cULus         | 60024    | 120                    | 2000W      | 1800VA      | 600VA       |
| 2022     | cULus         | 60025    | 208-277                | 3470-4620W | 2080-2770VA | 1040-1385VA |

# PHOTOCONTROLS

## Turn-Locks

### Thermal-Type

#### 5000M Series



#### SPECIFICATIONS

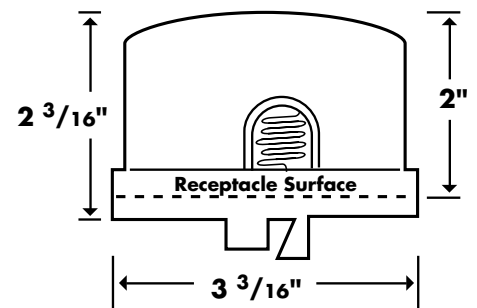
- **ON/OFF:** Turn-ON is 1 to 3 fc. Turn-OFF to Turn-ON ratio is 5 max.
- **Time Delay:** ON and OFF.
- **Cell:** CdS, epoxy conformal coated 1/2" and 1" diameter models.
- **Surge Protection:** 380 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.
- **Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- **Power Consumption:** Averages under 1 watt.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

#### APPLICATIONS

- For use on streets, highways and other luminaries equipped with locking type receptacles, where most stringent surge protection is needed.

#### FEATURES

- **Sensor:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
  - **5008ME:** Uses a silicone photo sensor instead of a CdS photocell.
- **Operation:** Delayed response prevents false switching due to light from vehicles or lighting, etc.
- **Standards:** Meets UL773 and ANSI C136.10 including color designations. Also meets EEL NEMA standards. ANSI DOME COLOR-CODE: Grey 105-130VAC, Maroon 208-277VAC, Blue 105-285VAC, Yellow 480VAC, Green 347VAC.
- **Housing:** Polycarbonate housing and window, UV stabilized for permanent color. Provides high impact performance, flammability resistance, and electrically safe operations.



| CAT. NO.           | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | LIGHT SENSOR    | RATING           |                    |
|--------------------|---------------|----------|------------------------|-----------------|------------------|--------------------|
|                    |               |          |                        |                 | TUNGSTEN         | BALLAST            |
| 5001M              | cULus         | 61012    | 105-130                | 1"              | 2000W            | 1800VA             |
| 5004M              | cULus         | 61013    | 208-277                | 1"              | 3470-4620W       | 2080-2770VA        |
| 5007M              | cULus         | 61014    | 105-130/208-285        | 1/2"            | 2000W/3470-4620W | 1800VA/2080-2770VA |
| <b>NEW!</b> 5008ME | —             | 61020    | 480                    | Silicone Sensor | 7500W            | 4800VA             |
| 5021M              | cULus         | 61015    | 105-130                | 1/2"            | 2000W            | 1800VA             |
| 5024M              | cULus         | 61016    | 208-277                | 1/2"            | 3470-4620W       | 2080-2770VA        |
| 5026M              | CSA           | 61045    | 347                    | 1/2"            | 5760W            | 3470VA             |

# PHOTOCONTROLS

## Turn-Locks

### HID Electronic CdS

#### 2005A Series



#### SPECIFICATIONS

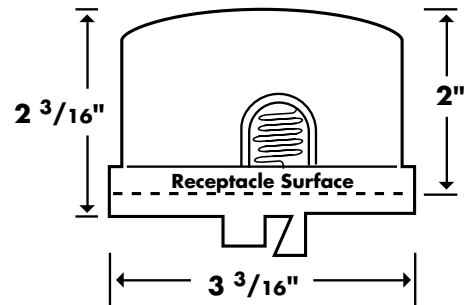
- **ON/OFF:** Turn-ON is 1.5 foot candle +/-0.5 OFF/ON ratio is 1.5:1 average.
- **Time Delay:** Instant ON/3-5 seconds OFF.
- **Cell:** CdS, epoxy conformal coated 1/2" diameter.
- **Relay:** Rated life 6,000 operations.
- **Surge Protection:** 360 joules MOV exceeds NEMA and ANSI requirements.
- **Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 3 years.

#### APPLICATIONS

- For state and county DOT & municipalities use on roadway and bridges. Also use for general commercial facilities.

#### FEATURES

- **Sensor:** Conformal coated CdS photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.
- **Operation:** Delayed OFF response prevents false switching due to light from vehicles or lighting, etc.
- **Standards:** Meets UL773 and ANSI C136.10 including color designations. Also meets EEI NEMA standards.
- **Housing:** Polypropylene, UV stabilized, permanent color with UV resistant clear acrylic window. Provides high impact, flammability resistance and electrically safe operations.
- **Contacts:** DC relay has positive snap action switching, reducing bounce and prolonging contact life.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COLOR | RATING   |         |
|----------|---------------|----------|------------------------|-------|----------|---------|
|          |               |          |                        |       | TUNGSTEN | BALLAST |
| 2005A    | dULus         | 62012    | 105-130                | Grey  | 1000W    | 1800VA  |
| 2007A    | dULus         | 62013    | 105-285                | Blue  | 1000W    | 1800VA  |

# PHOTOCONTROLS

## Turn-Locks

HID Electronic  
5200A Series



### SPECIFICATIONS

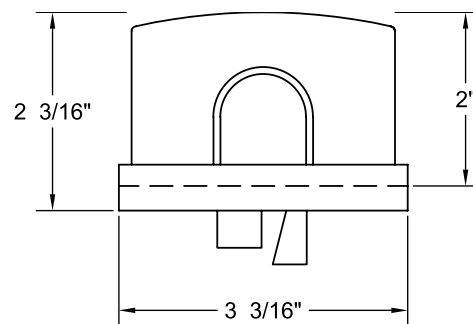
- **ON/OFF:** Turn ON is 1.5 foot candle +/- 0.2 OFF/ON ratio is 1.5:1 average\*.
- **Time Delay:** Instant ON/3-5 second OFF.
- **Cell:** Molded sealed IR filtered sensor.
- **Relay:** Rated life 10,000 operations.
- **Surge Protection:** 360 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.
- **Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 5 years.

### APPLICATIONS

- Designed meet local utility standards for street and highway lighting controls..

### FEATURES

- **Light Sensor:** Superior light sensing technology driven by a molded sealed IR Filtered Non-Drifting Silicon Sensor designed for extreme accuracy and calibrated to duplicate a Human Eye Response.
- **Surge Protection:** 360 Joule MOV component helps provide superior Photocontrol and HID luminaire surge protection against unpredictable line voltage spikes.
- **Relay:** DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.
- **Weather:** UV stabilized Polycarbonate housing and window with conformal coated electronics maximizing protection against extreme weather elements and moisture.
- **Safety:** Tested and certified to meet Photocontrol standards and the most current ANSI C136.10-2010 American National Standard for Roadway and Area Lighting Equipment.
- **Operation:** Delayed OFF response prevents false switching due to light from vehicles or lighting, etc.
- **Custom:** Customize your special order by choosing multiple colors, Turn-On light trigger levels, fail-ON / fail-OFF, or delay times to meet your specific job requirement.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COLOR | RATING   |         |
|----------|---------------|----------|------------------------|-------|----------|---------|
|          |               |          |                        |       | TUNGSTEN | BALLAST |
| 5231A    | —             | 78898    | 105-130                | Grey  | 1000W    | 1800VA  |
| 5237A    | —             | 78899    | 105-305                | Blue  | 1000W    | 1800VA  |

# PHOTOCONTROLS

## Turn-Locks

LED Electronic  
2005B Series



### SPECIFICATIONS

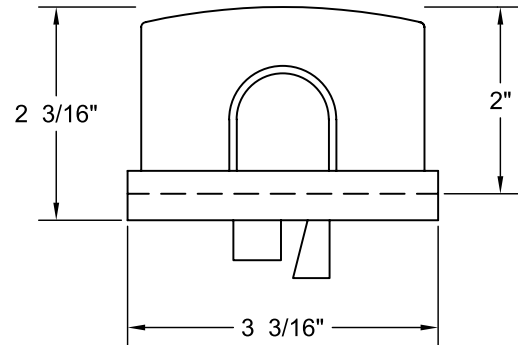
- **ON/OFF:** Turn-ON is 1.5 foot candle +/-0.5 OFF/ON ratio is 1.5:1 average.
- **Time Delay:** Instant ON/3-5 seconds OFF.
- **Cell:** Molded sealed IR filtered sensor.
- **Relay:** Rated life 12,000 operations.
- **Surge Protection:** 360 joules MOV exceeds NEMA and ANSI requirements.
- **Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 6 years.

### APPLICATIONS

- For state and county DOT & municipalities use on roadway and bridges. Also use for general commercial facilities.

### FEATURES

- **Light Sensor:** Superior light sensing technology driven by a molded sealed IR Filtered Non-Drifting Silicon Sensor designed for extreme accuracy and calibrated to duplicate a Human Eye Response.
- **Surge Protection:** 360 Joule MOV component helps provide superior Photocontrol and LED luminaire surge protection against unpredictable line voltage spikes.
- **Relay:** UL Listed DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.
- **Weather:** UV stabilized Polycarbonate housing and window maximizing protection against extreme weather elements and moisture.
- **Safety:** Tested and certified to meet both UL773 and CSA Photocontrol standards and the most current ANSI C136.10-2010 American National Standard for Roadway and Area Lighting Equipment.
- **Operation:** Delayed OFF response prevents false switching due to light from vehicles or lighting, etc.
- **Energy Savings:** Rated for use with LED lamp drivers.
- **Custom:** Customize your special order by choosing multiple colors, Turn-On light trigger levels, fail-ON / fail-OFF, or delay times to meet your specific job requirement.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COLOR  | RATING   |                     |        |
|----------|---------------|----------|------------------------|--------|----------|---------------------|--------|
|          |               |          |                        |        | TUNGSTEN | BALLAST             | LED    |
| 2005B    | cULus         | 62015    | 105-130                | Grey   | 1000W    | 1800VA (1000VA cUL) | 4 Amps |
| 2007B    | cULus         | 62016    | 105-305                | Blue   | 1000W    | 1800VA (1000VA cUL) | 4 Amps |
| 2008B    | —             | 62017    | 400-550                | Yellow | 1000W    | 1800VA              | —      |

# PHOTOCONTROLS

## Electronic Instant Response Turn-Lock

### LED Photocontrol Longer Life

#### 5200-UL



#### SPECIFICATIONS

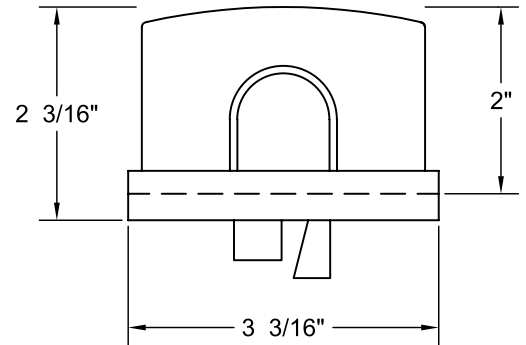
- **ON/OFF:** Turn-ON is 1.5 foot candle +/-0.2 OFF/ON ratio is 1.5:1 average.
- **Time Delay:** Instant ON/2-5 seconds OFF.
- **Cell:** Molded sealed IR filtered sensor.
- **Relay:** Rated life 12,000 operations.
- **Surge Protection:** 360 joules MOV (Metal oxide varistor) exceeds ANSI and NEMA requirements.
- **Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 8 years.

#### APPLICATIONS

- Designed meet local utility standards for street and highway lighting controls.
- All LED, CFL, Induction, HPS, MH and HID lighting fixtures requiring instant response dusk-to-dawn control.
- Ideal for roadway, area, parking, flood and security type lighting fixtures.

#### FEATURES

- **Longer life:** Backed by a 8-Year Warranty components exceed the 10-year life requirement suitable for HID and most LED fixtures.
- **Light Sensor:** Superior light sensing technology driven by a molded sealed IR Filtered Non-Drifting Silicon Sensor designed for extreme accuracy and calibrated to duplicate a Human Eye Response.
- **Surge Protection:** 360 Joule MOV component helps provide superior Photocontrol and LED luminaire surge protection against unpredictable line voltage spikes.
- **Relay:** UL Listed DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.
- **Weather:** UV stabilized Polycarbonate housing and window with conformal coated electronics maximizing protection against extreme weather elements and moisture.
- **Safety:** Tested and certified to meet both UL773 and CSA Photocontrol standards and the most current ANSI C136.10-2010 American National Standard for Roadway and Area Lighting Equipment.
- **Operation:** Delayed OFF response prevents false switching due to light from vehicles or lighting, etc.
- **Energy Savings:** Rated for use with LED lamp drivers.
- **Custom:** Customize your special order by choosing multiple colors, Turn-On light trigger levels, fail-ON / fail-OFF, or delay times to meet your specific job requirement.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COLOR | RATING   |                     |                 |
|----------|---------------|----------|------------------------|-------|----------|---------------------|-----------------|
|          |               |          |                        |       | TUNGSTEN | BALLAST             | LED             |
| 5237-UL  | cULus         | 78895    | 105-305                | Blue  | 1000W    | 1800VA (1000VA cUL) | 4A 1000W@277VAC |

# PHOTOCONTROLS

## Electronic Instant Response Turn-Lock

### LED Photocontrol Long Life

#### ZTL Series



ZTL124F  
(FAIL OFF)

#### APPLICATIONS

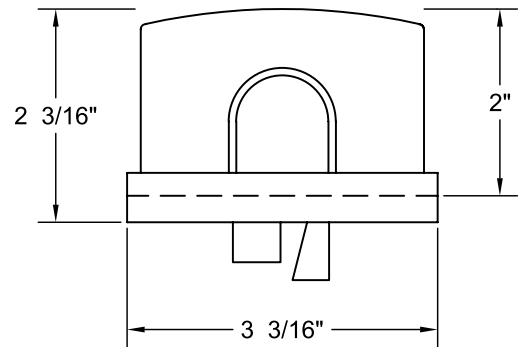
- Designed meet local utility standards for street and highway lighting controls.
- All LED, CFL, Induction, HPS, MH and HID lighting fixtures requiring instant response dusk-to-dawn control.
- Ideal for roadway, area, parking, flood and security type lighting fixtures.

#### FEATURES

- **Zero-Cross (LED):** The ZTL Series Photoclock is microprocessor controlled with enhanced ZERO-CROSS Switching Technology allowing it to withstand the high inrush currents commonly found in all LED Luminaires.
- **Long Life:** Backed by a 15-Year Warranty, all electrical components are to exceed 15,000 ON/OFF operations and the 20 year long-life requirements needed for today's LED luminaires.
- **Light Sensor:** Superior light sensing technology driven by a molded sealed IR Filtered Non-Drifting Silicon Sensor designed for extreme accuracy and calibrated to duplicate a Human Eye Response.
- **Surge Protection:** Enhanced 510 Joule MOV component helps provide superior Photoclock and LED luminaire surge protection against unpredictable line voltage spikes.
- **Relay:** UL Listed industrial strength DC relay with positive snap action technology virtually eliminating bounce and ensuring a secure contact at each switch cycle.
- **Weather:** UV stabilized Polycarbonate housing and window with conformal coated electronics maximizing protection against extreme weather elements and moisture.
- **Safety:** Tested and certified to meet both UL and CSA Photoclock standards and the most current ANSI C136.10-2010 American National Standard for Roadway and Area Lighting Equipment.
- **Operation:** Delayed OFF response prevents false switching due to light from vehicles or lighting, etc.
- **Energy Savings:** Rated for use with LED lamp drivers.
- **Custom:** Customize your special order by choosing multiple colors, Turn-On light trigger levels, special packaging or superior surge protection magnitude to meet your specific job requirement.
- **ZTL124F**
  - **Fail OFF:** Protects LED drivers from daytime operation where additional daytime heat gain degrades electronic drivers.

#### SPECIFICATIONS

- **ON/OFF:** Turn-ON is 1.5 foot candle +/-0.2 OFF/ON ratio is 1.5:1 average.
- **Time Delay:** Instant ON/3 seconds OFF.
- **Cell:** Molded sealed IR filtered sensor.
- **Relay:** Rated life 15,000 operations.
- **Surge Protection:** 510 joules MOV (Metal oxide varistor) exceeds ANSI and NEMA requirements.
- **Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- **Custom:** Available for custom design to meet specific utility specification.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Tungsten/Ballast:** 1000W/1800VA.
- **Electronic Ballast/LED:** 8A or totaling 2220W@277VAC.
- **Limited Warranty:** 15 years.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COLOR | MOV  | RATING   |                     |                          |
|----------|---------------|----------|------------------------|-------|------|----------|---------------------|--------------------------|
|          |               |          |                        |       |      | TUNGSTEN | BALLAST             | ELECTRONIC BALLAST (LED) |
| ZTL124   | cULus         | 78909    | 105-305                | Blue  | 510J | 1000W    | 1800VA (1000VA cUL) | 8A or 2220W@277VAC       |
| ZTL124F  | cULus         | 78908    | 105-305                | Green | 510J | 1000W    | 1800VA (1000VA cUL) | 8A or 2220W@277VAC       |

| ZTL124 PHOTOCONTROL |            |    |           |     |             |                 |                    |               |                             |    |            |        |                     |                |                    |     |
|---------------------|------------|----|-----------|-----|-------------|-----------------|--------------------|---------------|-----------------------------|----|------------|--------|---------------------|----------------|--------------------|-----|
| Z                   | TL         |    | 124       |     | COVER COLOR |                 | TURN-ON LEVEL (fc) |               | FAIL MODE                   |    | MOV RATING |        | PACKAGING QTY/COLOR |                | LAMP COMPATABILITY |     |
| TECHNOLOGY          | TYPE       |    | VOLTAGE   |     | BLANK       | ANSI STD. COLOR | BLANK              | 1.5 ANSI STD. | BLANK                       | ON | BLANK      | 510J   | BLANK               | 1 UNIT 4 COLOR | BLANK              | LED |
| Z                   | ZERO-CROSS | TL | TURN-LOCK | 124 | 105-305VAC  |                 |                    |               |                             |    |            |        |                     |                |                    |     |
|                     |            |    |           |     |             | *BR             | BROWN              | *10           | 1.0 fc ENERGY SAVER         | F  | OFF        | *1020J | 1020J               | *12            | 12 UNITS 1 COLOR   |     |
|                     |            |    |           |     |             | *BK             | BLACK              | *26           | 2.6 fc IES RECOMMENDATION   |    |            |        |                     | *50            | 50 UNITS 1 COLOR   |     |
|                     |            |    |           |     |             | *OR             | ORANGE             | *35           | 35 fc FAA                   |    |            |        |                     |                |                    |     |
|                     |            |    |           |     |             | *GR             | GREEN              | *80           | 8.0 fc METRO - HIGH AMBIENT |    |            |        |                     |                |                    |     |

\* Special order - Consult factory for availability and pricing.



# PHOTOCONTROLS

## ON/OFF Dusk-to-Dawn

ON at Dusk, OFF at Midnight

5737 Series



### APPLICATIONS

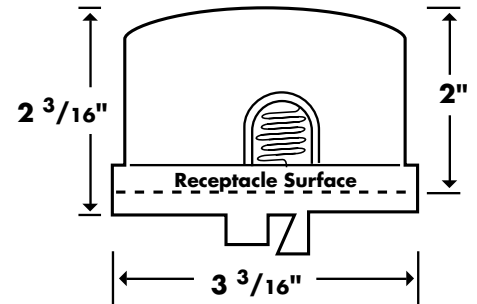
- Offices, restaurant signage, billboards, landscape and yard lighting.
- Ideal for situations when visible traffic is reduced – lights ON at dusk and OFF at 10pm or later, then on again for early morning illumination.

### FEATURES

- **Operation:** Microprocessor tracks the dusk and dawn times with the seasons and automatically determines midnight, NO PROGRAMMING REQUIRED. Automatically "re-learns" and resets after power outage, eliminating costly maintenance. DST correction built in.
- **Standards:** Meets ANSI C136.10 including color designations. Also meets EEL NEMA standards.
- **Housing:** UV stabilized, ANSI color-coded polypropylene dome. UV stabilized, clear acrylic window. ABS base. Cross-linked, polypropylene gasket.
- **Contacts:** DC relay has positive snap action switching, reducing bounce and prolonging contact life. Fail ON for safety.

### SPECIFICATIONS

- **ON/OFF:** Turn ON at dusk is 5.0 foot candle +/- 0.5 OFF/ON ratio is 1.5:1 average.
- **Time Delay:** Instant ON/3-5 seconds OFF.
- **Cell:** Silicon photosensor.
- **5737TM Half-Night Function:** Allows user to adjust OFF time during the night. OFF time can be set for up to two hours before (for extra energy savings) or up to two hours after midnight. Use to stagger groups of lights to go OFF at different times during the night.
- **5737TZ Two Function:**
  - Standard: Set as a Dusk to Dawn photoclock.
  - Half-night & Pre-Dawn: Turns on at Dusk. User adjusts OFF time for up to two hours before or after midnight. Then set countdown to Pre-dawn ON again 2 - 10 hours later. It always turns OFF at Dawn.
- **Surge Protection:** 360 joule MOV (metal oxide varistor) exceeds ANSI and NEMA requirements.
- **Locking Prongs:** Solid brass for maximum corrosion resistance and electrical conductivity.
- **Temperature Range:** -40 °F to +140 °F (-40 °C to +60 °C).
- **Fail Mode:** ON.
- **Warranty:** 3 years.



| CAT. NO. | CERTIFICATION | UPC CODE | VOLTAGE<br>VAC 50/60Hz | COLOR | SWITCH | RATING   |         |
|----------|---------------|----------|------------------------|-------|--------|----------|---------|
|          |               |          |                        |       |        | TUNGSTEN | BALLAST |
| 5737TZ   | –             | 62010    | 105-305                | Blue  | SPST   | 1000W    | 1800VA  |
| 5737TM   | –             | 62009    | 105-305                | Grey  | SPST   | 1000W    | 1800VA  |

# PHOTOCONTROLS

## Contactors with Turn-Lock

### 5400A Series



#### SPECIFICATIONS

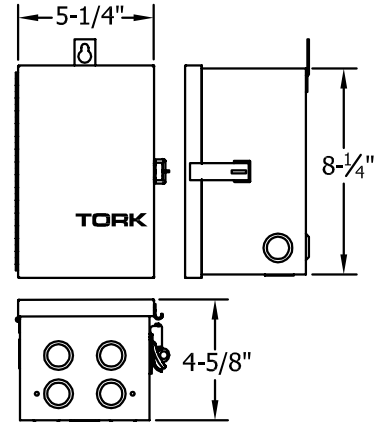
- **Receptacle:** 3-prong turn-lock meets the requirements of EEL NEMA.
- **Power Consumption:** Maximum 3 watts during daylight.
- **Switch Type:** 3PST

#### APPLICATIONS

- For street lighting. Controls all lighting loads in excess of the capacity of the photoelectric control contacts.

#### FEATURES

- **Operation:** Instant ON and 3-5 second delay OFF to prevent false switching due to light from passing vehicles, lighting, etc. Photocontrol provides dusk to dawn control of lighting contractor for heavy duty switching.
- **Standards:** Meets UL773 and ANSI C136.10 for photocontrols.
- **Housing:** Outdoor NEMA Type 3R. Grey enamel finish. Two 1/2"– 3/4" combination KO in bottom.



| CAT. NO. | CERTIFICATION | UPC CODE | PHOTOCONTROL INCLUDED | VOLTAGE VAC 50/60Hz | RESISTIVE | RATING   |                          |                          |
|----------|---------------|----------|-----------------------|---------------------|-----------|----------|--------------------------|--------------------------|
|          |               |          |                       |                     |           | TUNGSTEN | ELECTRONIC BALLAST (LED) | MOTOR                    |
| 5403A    | cULus         | 81012    | 2005B                 | 120                 | 40A       | 30A      | 40A                      | 3HP @ 120<br>7.5HP @ 240 |
| 5404A    | cULus         | 81013    | 2007B                 | 208-240             | 40A       | 30A      | 40A                      | 3HP @ 120<br>7.5HP @ 240 |
| 5404-3A  | cULus         | 81014    | 2007B                 | 277                 | 40A       | 30A      | 40A                      | 3HP @ 120<br>7.5HP @ 240 |

# PHOTOCONTROL ACCESSORIES

## For Turn-Lock Controls

### NOTE

- NSi offers many splicing options to complete the pole installation. See the splicing section pages 198 - 213.

### REPLACEMENT CAPS

- 5500: replaces photocontrol to change light fixture to always ON.
- 5500-OC: replaces photocontrol to change light fixture to always OFF.
- Durable materials and gasket provide longevity and weatherproof protection.

### MOUNTING BRACKET

- 73866: Utility mounting bracket for 1/2" threaded conduit photocontrols.

### RECEPTACLE

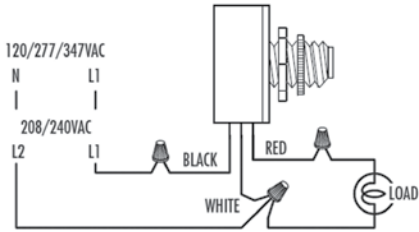
- 2224: 120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, mounting bracket and one mounting screw.
- 2223: 120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, gasket and two mounting screws.
- 2421: 120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, plastic housing, lock nut (with 1/2" NPT) and a mounting bracket.
- 2227: 120-480V 50/60 Hz 15 amp maximum receptacle with color-coded 12" long, #14 leads, gasket and two mounting screws.



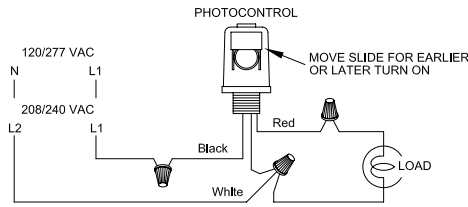
| CAT NO. | FIG. NO. | CERTIFICATION | UPC CODE | TYPE             | DESCRIPTION   |
|---------|----------|---------------|----------|------------------|---|
| 5500    | 1        | cETLus        | 61130    | Replacement Caps | Shorting cap, 480VAC max., 1800W Tungsten, 1800VA Ballast |
| 5500-OC | 2        | cETLus        | 61132    | Replacement Caps | Open cap, 480VAC max. (Black housing)                     |
| 73866   | 3        | -             | 62020    | Mounting Bracket | Mounting Bracket  |
| 2224    | 4        | cULus         | 61026    | Receptacle       | 3-Pin Receptacle and mounting bracket                     |
| 2223    | 5        | cULus         | 61025    | Receptacle       | 3-Pin Receptacle with gasket                              |
| 2421    | 6        | cULus         | 61021    | Receptacle       | 3-Pin Receptacle with plastic housing and bracket         |
| 2227    | 7        | cRUus         | 61030    | Receptacle       | 7-Pin receptacle with gasket                              |

# PHOTOCONTROL Wiring Diagrams

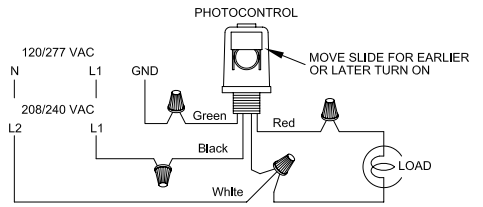
3000 Series



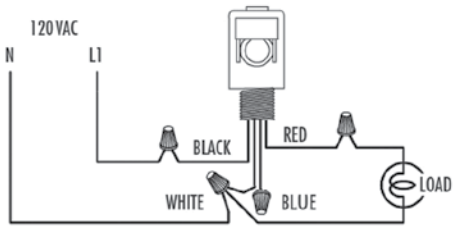
2101 & 2104



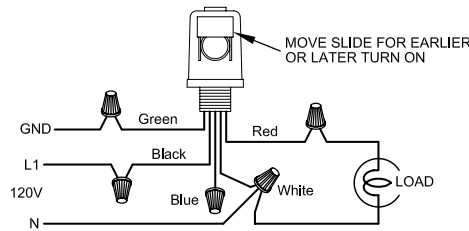
2101A /2104A



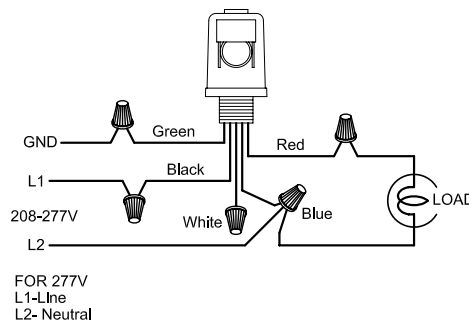
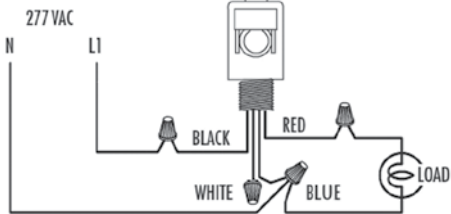
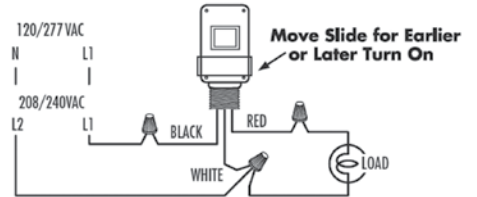
2107



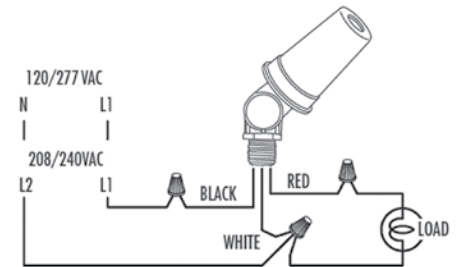
2107A/2129A/2119A



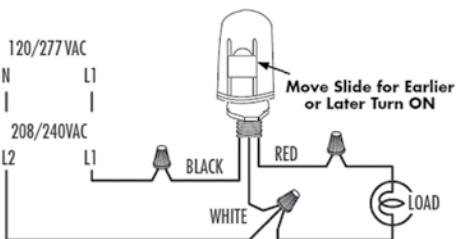
2115, 2117 & 2116



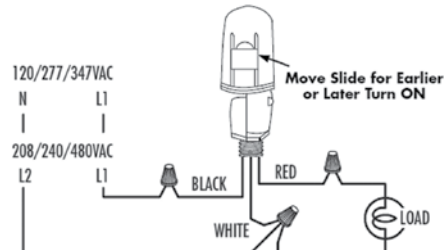
2020 Series



2000 Series

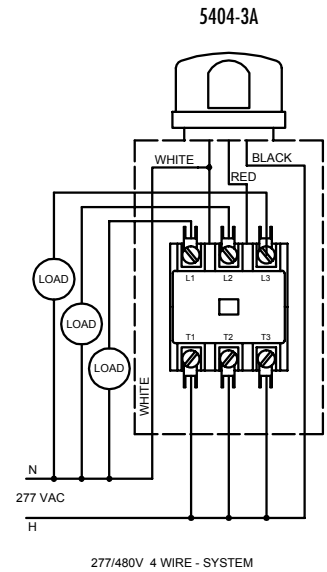
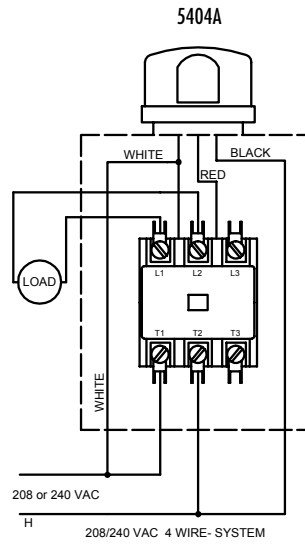
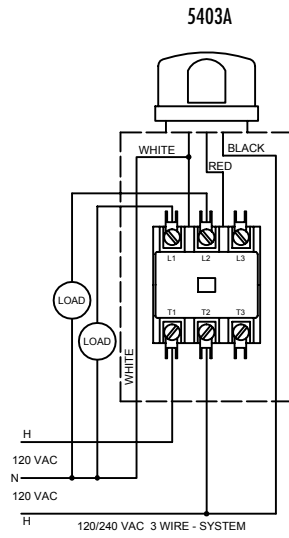
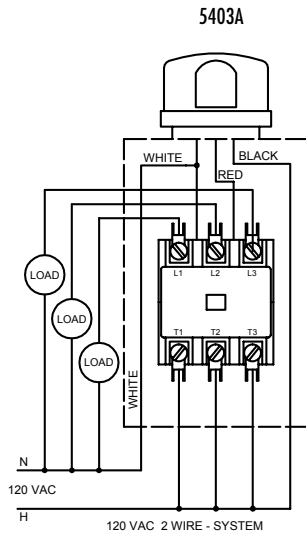


2001 Series



# PHOTOCONTROL Wiring Diagrams

## 5400A Series







MODEL A93-2RN5  
VOLTS: 17 VAC  
TORK ALERT  
SIGNALING DEVICES





**TORKALERT™**





# TORKALERT™

## Mechanical & Strobe Horns

### STROBE HORNS - See Fig. 1

#### APPLICATIONS

- High performance for industrial signaling applications. Offers high sound output, low current draw and dependable operation.
- Strobes use xenon flashtube, ideal for maximum efficiency and reliability.
- **Note:** TA880-N5 For outdoor use, unit must be mounted in a TA-WBBF outdoor backbox. TA5508H-G1 for indoor mounting only.

#### FEATURES

- **Alarm:** Penetrating mechanical sound.
- **Wiring:** Low current draw. Horn may be wired separately
- **Mounting:** 4" square surface mounting.

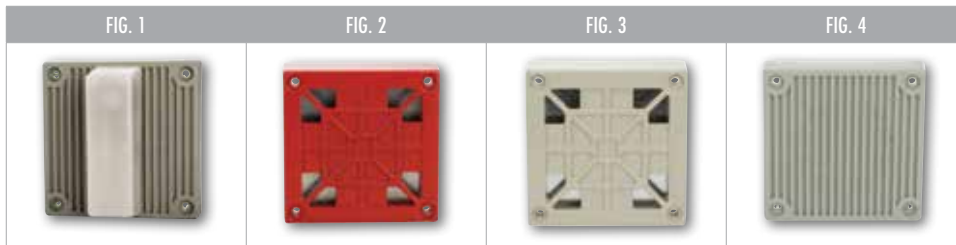
### MECHANICAL HORNS - See Fig. 2-4

#### APPLICATIONS

- Loud tone with typical decibel output of 87dB at 10 feet. Low frequency resonance for strong penetration of noisy areas like boiler rooms, water pumping stations, elevators and air compressor rooms.
- **Note:** Use TORK® signal timers for 24 hour or 7 day scheduling, see page 358.

#### FEATURES

- **Input Voltage:** Wide input voltage ratings for compatibility with unregulated power supplies.
- **Wiring:** Screw terminals for convenient IN/OUT wiring. Low current draw for minimizing power supply and wiring cost.
- **Housing:** Steel, painted Dawn Mist. Resonant grill design for high sound output.
- **Mounting:** To indoor box TA-BBSF or outdoor box TA-WBBF, see accessories page 453.



| CAT. NO.  | FIG. NO. | CERTIFICATION | UPC CODE | INPUT VOLTAGE | INPUT CURRENT (AMPS) | dB @10 FEET | CANDELA |
|---|----------|---------------|----------|---------------|----------------------|-------------|---------|
| TA880-N5  | 1        | cULus         | 96015    | 120VAC        | 0.115                | 96          | 15      |
| TA874-N5R (Red)   | 2        | UL            | 97613    | 120VAC, 60Hz  | 0.070                | 87          | —       |
| TA874-N5  | 3        | UL            | 96023    | 120VAC, 60Hz  | 0.070                | 87          | —       |
| TA875-G1  | 4        | UL            | 97687    | 24VDC         | 0.035                | —           | —       |
| WITH WEATHERPROOF BACKBOX TA-WBBF UL LISTED FOR OUTDOOR USE |          |               |          |               |                      |             |         |
| TA876-N5  | 3        | UL            | 96026    | 120VAC, 60Hz  | 0.070                | 87          | —       |

# TORKALERT™

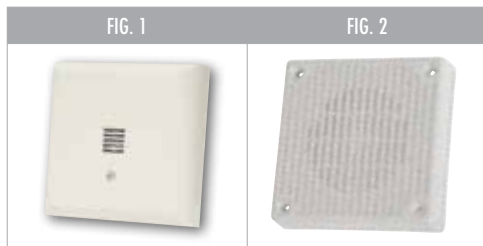
## Multi-Tone Electronic Horns

### APPLICATIONS

- For indoor and outdoor use. Superior sound penetration for various room conditions. Screw terminals accept #12AWG.

### FEATURES

- **Operating Temperature: TA-MTS:** -31°F to +150°F (-35°C to +66°C).
- **Dimensions And Mounting:**
  - TA-MTS: 4 1/8"H x 4 1/8"W x 3 17/32"D Can be mounted on ceiling or wall.
  - TA875-1G1: 4 3/4"H x 4 3/4"W x 1 3/8"D 1 gang, 2 gang or 4" square backbox.



| CAT. NO.  | FIG. NO. | CERTIFICATION | UPC CODE | INPUT VOLTAGE | DESCRIPTION              |
|-----------|----------|---------------|----------|---------------|--------------------------|
| TA875-1G1 | 1        | cULus         | 97641    | 20-31VDC      | Multi-tone Electric Horn |
| TA-MTS    | 2        | UL            | 97674    | 115 VAC       | Multi-tone Electric Horn |

| TA875-1G1 24VDC HORN |                |                     |
|----------------------|----------------|---------------------|
| ALARM TONE           | CURRENT (AMPS) | TYPICAL dB @10 FEET |
| BELL                 | 0.020          | 91                  |
| HI-LO                | 0.025          | 96                  |
| CHIME                | 0.028          | 93                  |
| SINGLE STROKE BELL   | 0.026          | 93                  |
| HORN                 | 0.023          | 97                  |
| 3 BEEPS, PAUSE       | 0.023          | 97                  |
| SIREN                | 0.040          | 95                  |
| SLOW WHOOP           | 0.040          | 96                  |

| TA-MTS 115VAC HORN |               |          |                     |             |
|--------------------|---------------|----------|---------------------|-------------|
| ALARM TONE         | AMPS @ 120VAC |          | TYPICAL dB @10 FEET |             |
|                    | HIGH          | STANDARD | HIGH OUTPUT         | STD. OUTPUT |
| HORN               | 0.050         | 0.042    | 85                  | 82          |
| BELL               | 0.041         | 0.039    | 82                  | 75          |
| HORN 2             | 0.050         | 0.040    | 85                  | 79          |
| CODE 3 HORN        | 0.050         | 0.042    | 82                  | 75          |
| CODE 3 TONE        | 0.042         | 0.040    | 79                  | 75          |
| SLOW WHOOP         | 0.050         | 0.042    | 85                  | 82          |
| SIREN              | 0.045         | 0.041    | 85                  | 82          |
| HI-LO              | 0.042         | 0.039    | 82                  | 79          |



# TORKALERT™

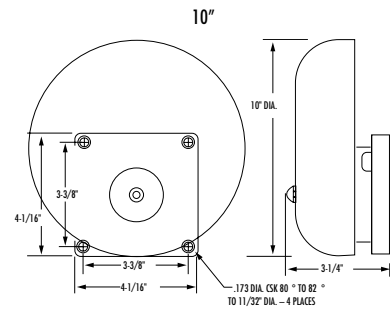
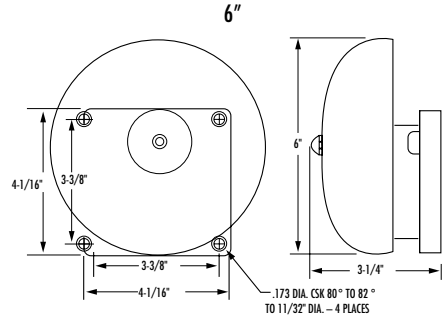
## Heavy Duty Bells

### APPLICATIONS

- For indoor or outdoor applications. High sound output, durable and dependable performance. Ideal for schools and hospitals.

### FEATURES

- Terminal Size: #12 - 22 AWG.
- Wiring: Screw terminals permit fast IN/OUT field wiring.
- Housing: Steel gong and cast aluminum. See dimensional drawings.
- Mounting: To indoor box TA-BBSF or outdoor box TA-WBBF, see accessories page 453.



| CAT. NO.   | UPC CODE | SHELL SIZE | VOLTAGE | INPUT CURRENT (AMPS) | dB@ 10 FEET | COLOR     |
|------------|----------|------------|---------|----------------------|-------------|-----------|
| TA340-6G5  | 96003    | 6"         | 24VAC   | 0.320                | 81-95       | Dawn Mist |
| TA340-6N5  | 96004    | 6"         | 120VAC  | 0.065                | 81-95       | Dawn Mist |
| TA340-10G5 | 96005    | 10"        | 24VAC   | 0.320                | 84-98       | Dawn Mist |
| TA434-6N5  | 97521    | 6"         | 120VAC  | 0.065                | 81-95       | Red       |
| TA434-10N5 | 96522    | 10"        | 120VAC  | 0.065                | 84-98       | Red       |

# TORKALERT™

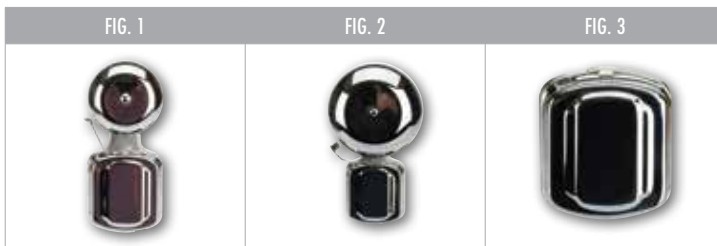
## Light Duty, General Purpose Bells & Buzzer

### APPLICATIONS

- Designed to operate on either bell ringing transformers or batteries. Non-adjustable sound.

### FEATURES

- Alarm: Bell ringing, non-adjustable sound.
- Dimensions For Ta725: 3" H x 2 1/2" W x 1" D.
- Mounting: Fully enclosed sturdy steel bases and covers. Base and cover snap together, no screws required.



| CAT. NO. | FIG. NO. | UPC CODE | DESCRIPTION | VAC  | VDC | AMPS | dB       |
|----------|----------|----------|-------------|------|-----|------|----------|
| TA740    | 1        | 96228    | 2 1/2" Gong | 8-16 | 3-6 | 1    | 76 @ 10' |
| TA744    | 2        | 96230    | 4" Gong     | 8-16 | 3-6 | 1    | 78 @ 10' |
| TA725    | 3        | 96226    | Buzzer      | 8-16 | 3-6 | 1    | 88 @ 3'  |

# TORKALERT™

## Chime & Chime Kits

### APPLICATIONS

- Powerful and loud, pleasant sounding push-button chimes. Ideal for homes, apartments and offices.

### FEATURES

- **Input:** 16V, 10VA, 120VAC.
- **Alarm:** Chime.
- **Mounting:** Fully enclosed sturdy steel bases.



| CAT.NO.  | FIG. NO. | UPC CODE | DESCRIPTION  | DIMENSIONS                     |
|----------|----------|----------|--|--------------------------------|
| TAC212WS | 1        | 96064    | 16VAC Chime + Push Button clip for Stucco + 10VA Transformer                   | 7 3/16" L x 4" W x 2" D        |
| TAC212WL | 2        | 96054    | 16VAC Chime + 1 Illuminated & 1 Non-illuminated Push-button + 10VA Transformer | 7 1/4" L x 4 3/4" W x 2 1/2" D |

# TORKALERT™

## Quartz Wall Clocks



### APPLICATIONS

- Model meets United States Government Specifications. Provides second hand for accurate timing.

### FEATURES

- **Quartz:** Accurate to one minute per year. Low power consumption for long battery life. Uses AA battery (not supplied).
- **Mounting:** Concealed mounting brackets allow for simple, neat placement on walls.

| CAT. NO. | FIG. NO. | UPC CODE | TYPE   | SIZE | FRAME COLOR |
|----------|----------|----------|--------|------|-------------|
| TA1887 G | 1        | 96159    | QUARTZ | 12"  | Grey        |

# TORKALERT™ Weatherproof Motor Driven Siren & Fire Alarm Station

## MOTOR SIREN - See Fig. 1

### APPLICATIONS

- For industrial and outdoor use. Ideal for evacuation and warning systems.

### FEATURES

- **Input Voltage:** 120AC & DC, 60Hz.
- **Alarm:** Loud, distinctive tone. Designed to be effective over standard horns or bells.
- **Housing:** Red enamel paint over heavy gauge aluminum housing. Fully enclosed motor. 180° swivel and adjustable direction.

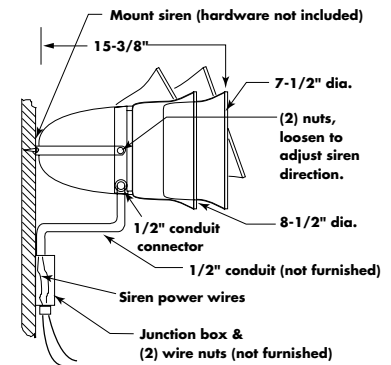
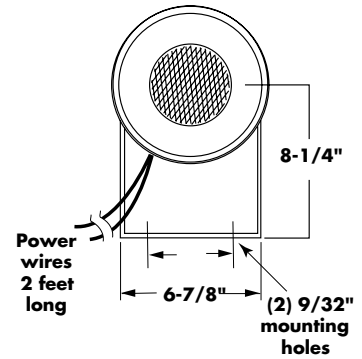
## FIRE ALARM STATION - See Fig. 2

### APPLICATIONS

- Designed for indoor use. Ideal for schools, hospitals, industrial plants, warehouses and retail stores. Meets requirements, BSA, MEA, CA and UL.

### FEATURES

- **Alarm:** Loud, distinctive tone. Designed to be compatible with any control panel to initiate local alarm signals, trip municipal fire alarm box and start fire pumps.
- **Mounting:** Sturdy metal construction, mounts to a standard single gang electrical box.



| CAT. NO.  | FIG. NO. | UPC CODE | SWITCH   | INPUT VOLTAGE | dB @10 FEET | AMPS | VA  |
|-----------|----------|----------|----------|---------------|-------------|------|-----|
| TA315-1N5 | 1        | 96599    | —        | 120VAC/DC     | 117         | 2.5  | 300 |
| TA270A    | 2        | 96521    | SPST, NO | 30V AC/DC     | —           | 1    | —   |

#### APPLICATIONS

- For unlocking or locking metal or wooden doors using low voltage wiring. For AC, use TA591 or TA592 transformer.

#### FEATURES

- **Mortise Type Remote Opener:** Reversible for right or left hand door. Use with mortise entrance locks having a latch bolt with up to 1/2" width and throw. 6" wire leads.
- **Rim Type Remote Opener:** Reversible for right or left hand door. Standard surface type used with lock latches with up to 5/8" width and throw. 6" wire leads.
- **Magnetic Switch Contacts:** For activating a variety of signals, ideal for limiting space applications. Self-insulating and can be mounted in any direction. All units include companion magnet. Dimensions: 23/16"L x 1/2"W x 1/2"D.
- **Door/Window Contacts, Rolling Ball Type:** Signals automatically with the opening and closing of doors, windows and transoms. Operates from pressure in any direction. Non-tilt, non-jamming design. Fits 3/4" hole; no need to mortise.
- **Electric Door Switch:** For turning lights/signals on or off when doors are opened or closed. Ideal for closets, dark rooms, storage areas of walk-in refrigeration. Rust resistant steel case with 4 knockouts, antique brass plate. Box dimensions: 1 1/4"W x 3 7/8"H x 2"D. Plate dimensions: 1 1/4"W x 4".
- **Door Trip Switch:** Signals automatically as door is opened. Commonly used on store doors to announce entrance of customers. Mounts on top of door frame. Solid cast brass. Size: 3 x 1 5/8".



| CAT NO. | FIG. NO. | TYPE                                   | UPC CODE | DESCRIPTION                            | VOLTS           | AMPS                |
|---------|----------|--|----------|--|-----------------|---------------------|
| TA09    | 1        | Mortise type remote opener             | 96960    | —                                      | 8-16VAC, 3-6VDC | .95-1.75, 1.25-1.80 |
| TA154   | 2        | Rim type remote opener                 | 96962    | —                                      | 16VAC, 3-6VDC   | .95-1.75, 1.25-1.80 |
| TA152   | 3        | Rim type remote opener                 | 96961    | —                                      | 8-16VAC, 3-6VDC | —                   |
| TA60    | 4        | Magnetic switch contacts               | 96975    | Circuit closed with magnet engaged     | —               | —                   |
| TA61    | 4        | Magnetic switch contacts               | 96976    | Make & break NO and NC                 | 24VAC, 12VDC    | .5                  |
| TA62    | 4        | Magnetic switch contacts               | 96977    | Circuit open with magnet engaged       | —               | —                   |
| TA67W   | 4        | Magnetic switch contacts               | 96979    | Terminal Cover                         | —               | —                   |
| TA44    | 5        | Door/window contact, rolling ball type | 96995    | Normally closed Push to open           | 12-24V, AC/DC   | 2                   |
| TA45    | 5        | Door/window contact, rolling ball type | 96996    | Normally open Push to close            | 12-24V, AC/DC   | 24                  |
| TA46    | 5        | Door/window contact, rolling ball type | 96997    | Momentary contact Push to make & break | 12-24V, AC/DC   | 24                  |
| TA502   | 6        | Electric door switch                   | 96964    | Light ON when door is open             | 125VAC, 250VAC  | 6, 3                |
| TA236   | 7        | Door trip switch                       | 96963    | —                                      | 12-24VAC        | 2                   |



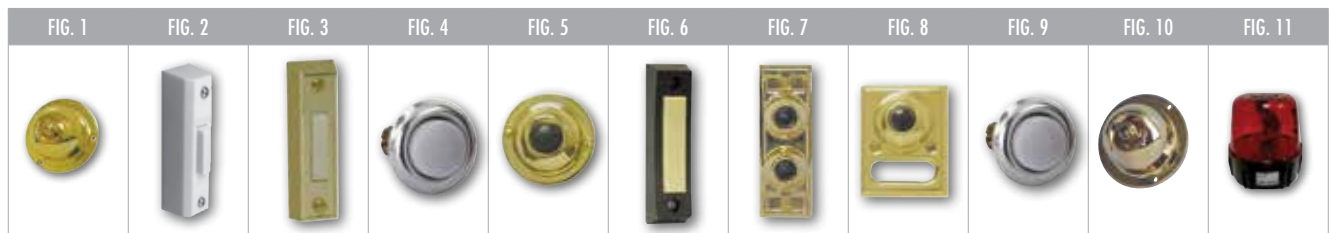
# TORKALERT™

## Push-Buttons

Illuminated, Non-Illuminated & Weatherproof

### APPLICATIONS

- For outdoor use to activate low voltage bells, buzzers, horns or any other audible signal. Ideal for factory doors, receiving departments, small office buildings, limited access retail stores and private homes.



| CAT. NO. | FIG. NO. | TYPE   | UPC CODE | DESCRIPTION               | INPUT VOLTAGE  | COLOR            | SIZE                     |
|----------|----------|--|----------|---------------------------|--|------------------|--------------------------|
| TA603L   | 1        | Illuminated Push-Buttons, Up To 16Vac        | 96035    | —                         | —  | Gold             | 1 3/4" (diameter)        |
| TA631L   | 2        | Illuminated Push-Buttons, Up To 16Vac        | 96089    | —                         | —  | White            | 2 3/4" x 7/8"            |
| TA656B   | 3        | Illuminated Push-Buttons, Up To 16Vac        | 96039    | —                         | —  | Gold             | 15/16" x 2 3/4"          |
| TA620L*  | 4        | Illuminated Push-Buttons, Up To 16Vac        | 96037    | —                         | —  | Chrome           | 5/8" (diameter)          |
| TA620LB* | 4        | Illuminated Push-Buttons, Up To 16Vac        | 96038    | —                         | —  | Brass            | 5/8" (diameter)          |
| TA600    | 5        | Non-Illuminated Push-Buttons, Up To 24Vac    | 96041    | —                         | —  | Polished Brass   | 2 1/4" (diameter)        |
| TA603    | 5        | Non-Illuminated Push-Buttons, Up To 24Vac    | 96044    | —                         | —  | Polished Brass   | 1 3/4" (diameter)        |
| TA631    | 6        | Non-Illuminated Push-Buttons, Up To 24Vac    | 96088    | —                         | —  | White            | 2 3/4" x 7/8"            |
| TA666BK  | 6        | Non-Illuminated Push-Buttons, Up To 24Vac    | 96048    | —                         | —  | Black, ivory bar | 2 3/4" X 2 3/4"          |
| TA602    | 7        | Non-Illuminated Push-Buttons, Up To 24Vac    | 96043    | —                         | —  | Polished Brass   | 1 3/8" x 5 1/4"          |
| TA601    | 8        | Non-Illuminated Push-Buttons, Up To 24Vac    | 96042    | —                         | —  | Sprayed Brass    | 2 x 2 9/16"              |
| TA620*   | 9        | Non-Illuminated Push-Buttons, Up To 24Vac    | 96045    | —                         | —  | Chrome           | 5/8" (diameter)          |
| TA620B*  | 9        | Non-Illuminated Push-Buttons, Up To 24Vac    | 96046    | —                         | —  | Brass            | 5/8" (diameter)          |
| TA1786B  | 10       | Weatherproof Push-Buttons / Solid Cast Brass | 96090    | Without conduit backplate | Monetary Contacts<br>4A AC/2A DC @12Volts<br>2A AC/1A DC @ 48Volts | Brass            | 2 3/8" (dia)<br>x 1.5" H |
| TA1786CB | 10       | Weatherproof Push-Buttons / Solid Cast Brass | 96091    | With conduit backplate    | Monetary Contacts<br>4A AC/2A DC @12Volts<br>2A AC/1A DC @ 48Volts | Brass            | 2 3/8" (dia)<br>x 1.5" H |

# TORKALERT™

## Warning Lights

### Industrial Units



#### APPLICATIONS

- 1/2" conduit mounting. Full selection of dome colors. For outdoor use. All units must be mounted vertically with base at bottom.

#### FEATURES

- **All Purpose 360° Beacon:** Large parabolic reflector rotates around a 100 watt bulb. Long range beam. Use to indicate equipment malfunctions, security intrusion, etc..
- **Midi-Strobe:** Solid state circuitry in a low profile design. No moving parts means less Maintenance!
- **Compact Rotating Beacon:** Light intensifying reflector rotates around a low current 25 watt bulb. Bayonet socket for easy lamp replacement. Ideal for restricted or dangerous areas.
- **Electronic Strobe:** High intensity strobe tube with inner fluted lens for maximum brilliance. No moving parts makes it immune to shock and vibration. Ideal for security alert.
- **Color:** Red (R), Amber (A), Clear (C) and Blue (B).



| CAT. NO.  | FIG. NO. | CERTIFICATION | TYPE                    | UPC CODE | DESCRIPTION   | INPUT VOLTAGE | AMPS |
|-----------|----------|---------------|-------------------------|----------|---|---------------|------|
| TA47RN5   | 1        | —             | All Purpose 360° Beacon | 96061    | 90 FPM. Corrosion resistant/Outdoor use. Glass filled polypropylene housing Acrylic dome. Tamper resistant dome clamps. Nominal current draw 9 1/2"H x 8 1/2" diameter.   | 117VAC        | .9   |
| TA47AN5   | 1        | —             | All Purpose 360° Beacon | 96161    |   | 117VAC        |      |
| TA93-2RN5 | 2        | —             | Midi-Strobe             | 99622    | 70-80 FPM. Solid state electronic circuitry. High output 3-4 watt, 3.6 joules Vertically mounted flash tube. Snap out socket base for 360° Fresnel dome optics. Nominal current draw 6 1/2"H x 5 1/8" diameter. | 117VAC        | .04  |
| TA93-2AN5 | 2        | —             | Midi-Strobe             | 97623    |   |               |      |
| TA93-2CN5 | 2        | —             | Midi-Strobe             | 96968    |   |               |      |
| TA93-2BN5 | 2        | —             | Midi-Strobe             | 97624    |   |               |      |
| TA52RN5   | 3        | UL            | Compact Rotating Beacon | 96063    | 80-90 FP. 360° rotation. Dependable belt & turntable design. Acrylic dom. Nominal current draw 6 1/2"H x 55/8" diameter.  | 117VAC        | .21  |
| TA52AN5   | 3        | UL            | Compact Rotating Beacon | 96163    |   |               |      |
| TA52BN5   | 3        | UL            | Compact Rotating Beacon | 96263    |   |               |      |
| TA94RN5   | 4        | —             | Electronic Strobe       | 97626    | 70-80 FPM. Solid state electronic circuitry High output 3-4 watt, 3.6 joules. Acrylic dome. Glass filled polypropylene housing. Suitable for outdoor use 9 1/2"H x 8 1/2" diameter.                             | 117VAC        | .04  |
| TA94AN5   | 4        | —             | Electronic Strobe       | 97627    |   |               |      |
| TA94BN5   | 4        | —             | Electronic Strobe       | 97628    |   |               |      |

# TORKALERT™

## Warning Lights

### Vehicular Units

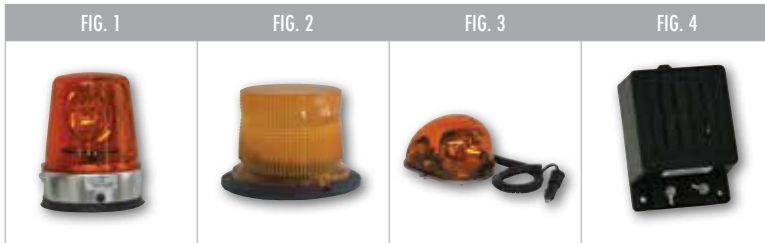


#### APPLICATIONS

- 1/2" conduit mounting. Full selection of dome colors. For outdoor use. All units must be mounted vertically with base at bottom.

#### FEATURES

- **Rotating Beacon:** Single point shock-mounting. Ideal for use on security or service vehicles.
- **Double Flash Super Strobe:** Ideal for industrial applications requiring extremely high visibility. One model covers all popular mounting methods: 1/2" pipe, surface, flange, electrical box.
- **Portable, Magnetic, Rotating Beacon:** Single point shock-mounting. Ideal for use on security or service vehicles.
- **Vehicular Backup Alarm:** Solid state electronic unit. Helps to comply with OSHA and State regulations. Makes distinctive noise, ideal for extreme variations in background noise
- **Note:** FPM (Flashes Per Minute). JFP (Joules Per Flash).
- **Color:** Red (R) and Amber (A).
- For replacement parts and accessories, see page 453.



| CAT. NO.  | FIG. NO. | CERTIFICATION | TYPE                                | UPC CODE | DESCRIPTION   | INPUT VOLTAGE | AMPS |
|-----------|----------|---------------|-------------------------------------|----------|---|---------------|------|
| TA53AG1   | 1        | —             | Rotating Beacon                     | 96184    | 90-100 FPM. Dependable belt & turntable design. 25 watt lamp. Acrylic Dom. Nominal current draw 7 1/2"H x 6" diameter           | 24VDC         | —    |
| TA131DRN5 | 2        | UL            | Double Flash Super Strobe           | 96510    | 60 FPM, 7.5 JPF. High intensity 85,000 peak CP. Flashtube Rated at 7000-8000 hrs. Durable Lexan® housing 5"H x 7 1/4" diameter. | 120VAC        | .02  |
| TA131DAU1 | 2        | UL            | Double Flash Super Strobe           | 97611    |   | 10.5-31.0VDC  |      |
| TA54AE1   | 3        | —             | Portable, Magnetic, Rotating Beacon | 96187    | 2 sound levels. 97 or 87 dB +/- dB at 4ft. Multi-voltage. Water-resistant housing   | 12 to 48VDC   | —    |
| TA879     | 4        | —             | Vehicular Backup Alarm              | 96102    |   |               |      |

# TORKALERT™

## Power Supply Units

### 24 VDC Units



#### APPLICATIONS

- Units provide power to multiple signaling devices, depending on requirements.

#### FEATURES

##### TA606

- Regulated and filtered 24VDC up to 600mA. Easy-to-use screw terminals, accepts #16-24AWG. No conduit is required for installation.

##### TA640

- Dual output unit, each providing 2 Amps fo current. If connected in parallel, will provide up to 4 Amps. Circuit breaker provides input protection.



| CAT. NO. | FIG. NO. | UPC CODE | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | REGULATION | RIPPLE VOLTAGE |
|----------|----------|----------|---------------|----------------|----------------|------------|----------------|
| TA606    | 1        | 96109    | 117VAC        | 24VDC          | 600mA          | -          | -              |
| TA640    | 2        | 96110    | 115VAC        | 24VDC          | 4A             | +/-5%      | 10mVRMS        |

# TORKALERT™

## Transformers, Accessories & Replacements

### APPLICATIONS

- Engineered to ensure long use for bells, buzzers and chimes.



| CAT. NO.   | FIG. NO. | CERTIFICATION | UPC CODE | TYPE       | VOLTS-AMPS (VA) | PRIMARY VOLTAGE AC | SECONDARY VOLTAGE AC | Hz    |
|------------|----------|---------------|----------|------------|-----------------|--------------------|----------------------|-------|
| TA590      | 1        |               | 96104    | Bell       | 5               | 120                | 10                   | 60    |
| TA591      | 2        |               | 96105    | Chime      | 10              | 120                | 16                   | 60    |
| TA592      | 3        |               | 96106    | Tri-Volt   | 10-10-20        | 120                | 8-16-24              | 50/60 |
| TA598      | 4        |               | 96602    | Tri-Volt   | 20-30-30        | 120                | 8-16-24              | 60    |
| TA599      | 5        |               | 96108    | Heavy Duty | 40              | 120                | 24                   | 60    |
| TA1245Y-50 | 6        |               | 96166    | Heavy Duty | 50VA            | 120/208/240        | 24                   | 60    |
| TA1245Y-75 | 7        |               | 96167    | Heavy Duty | 75VA            | 120/208/240        | 24                   | 60    |

| REPLACEMENT ACCESSORIES |          |          |   |  |
|-------------------------|----------|----------|---|--|
| UNIT                    | CAT. NO. | UPC CODE | DESCRIPTION   |  |
| TA93-2                  | TA-L6-2  | 96982    | 110VAC Xenon Flash Tube                               |  |
| TA52                    | TA-L8    | 96134    | 110VAC Bulb   |  |
| TA94                    | TA-L10   | 96136    | 110VAC Xenon Flash Tube                               |  |
| TA-94                   | TA-L10-1 | 96981    | 110VAC Xenon Flash Tube                               |  |
| TA502                   | TA502SW  | 96966    | Replacement switch                                    |  |
| TA874 Series            | TA-BBSF  | 97694    | Backbox – 4" painted Down Mist 3/4" and 1" KO's       |  |
| TA874 Series            | TA-WBBF  | 97692    | Weatherproof Backbox – 1/2" KO's 4" painted Down Mist |  |
| TA-BBSF, TA-WBBF        | TA-SFPF  | 97707    | Semi-Flush plate – Down Mist                          |  |
| TA-BBSF, TA-WBBF        | TA-SFPER | 97697    | Semi-Flush plate – Red                                |  |
| TA47, TA94              | TA-ADR   | 96111    | Acrylic Dome – Red                                    |  |
| TA47, TA94              | TA-ADA   | 96311    | Acrylic Dome – Amber                                  |  |
| TA52, TA53              | TA-D5B   | 96419    | Acrylic Dome – Blue                                   |  |
| TA54                    | TA-D6A   | 96320    | Dome – Amber  |  |
| TA93, TA94              | TA-D7R   | 96121    | Fresnal Dome – Red                                    |  |
| TA93, TA94              | TA-D7A   | 96321    | Fresnal Dome – Amber                                  |  |
| TA93, TA94              | TA-D7C   | 96621    | Fresnal Dome – Clear                                  |  |
| TA131D                  | TA-D8R   | 96970    | Acrylic Dome – Red                                    |  |



# TORK



## TORK<sup>®</sup> IS TPX100

LOW VOLTAGE LANDSCAPE AND SWIMMING POOL/SPA LIGHT  
TRANSFORMER IN RAINFOOT ENCLOSURE.  
REPLACE DOOR AFTER WIRING.

SUITABLE FOR DIRECT CONNECTION TO UNDERWATER LIGHTS  
MAY BE USED WITH NO NICHE FIXTURES.

INPUT: 120VOLT, 60Hz, 1.0AMP MAX (AMPERES)  
OUTPUT: 12 or 1.5VOLTS, 100-LAMP WATTS TOTAL ALL TAPS

### CAUTION:

NOT FOR USE WITH SELF CONTAINED PORTABLE SPAS OR HOT TUBS. DO NOT INSTALL THIS EQUIPMENT WITHIN 5 FEET (1.5 METERS) FOR  
CANADIAN INSTALLATIONS OR INSIDE WALL OF POOL/SPA. INSTALLATION SHOULD BE DONE BY QUALIFIED PERSONNEL ACCORDING  
TO ALL LOCAL, STATE, PROVINCIAL AND NATIONAL ELECTRICAL CODES AND SHALL BE SUBJECT TO APPROVAL BY THE LOCAL INSPECTION  
AUTHORITY. FOR OUTDOOR USE ONLY. FOR USE WITH CERTIFIED NICHOLESS SUBMERSIBLE LUMINAIRES.

NE CONVIENT PAS AVEC SPAS PORTABLES. NE PAS INSTALLER CE DISPOSITIF À MOINS DE 5 PIEDS (1.5 MÈTRES) POUR LES  
INSTALLATIONS AU CANADA DE LA PARIÈRE INTÉRIÈRE D'UNE PISCINE OU D'UN SPA. L'INSTALLATION DEVRAIT ÊTRE EFFECTUÉE PAR  
UN TECHNICIEN QUALIFIÉ. RESPECTER LES CODES D'ÉLECTRICITÉ LOCAUX, PROVINCIAUX ET NATIONAUX ET ÊTRE SOUMIS À  
L'APPROBATION DE L'AUTORITÉ LOCALE D'INSPECTION. POUR UN USAGE À L'EXTÉRIEUR SEULEMENT. POUR USAGE AVEC  
DES LUMINAIRES SUBMERSIBLES SANS NICHE HOMOLOGUÉS.

↑ MOUNT AT LEAST 1FT.  
(0.305 M) ABOVE  
GROUND, WITH ARROWS  
UP

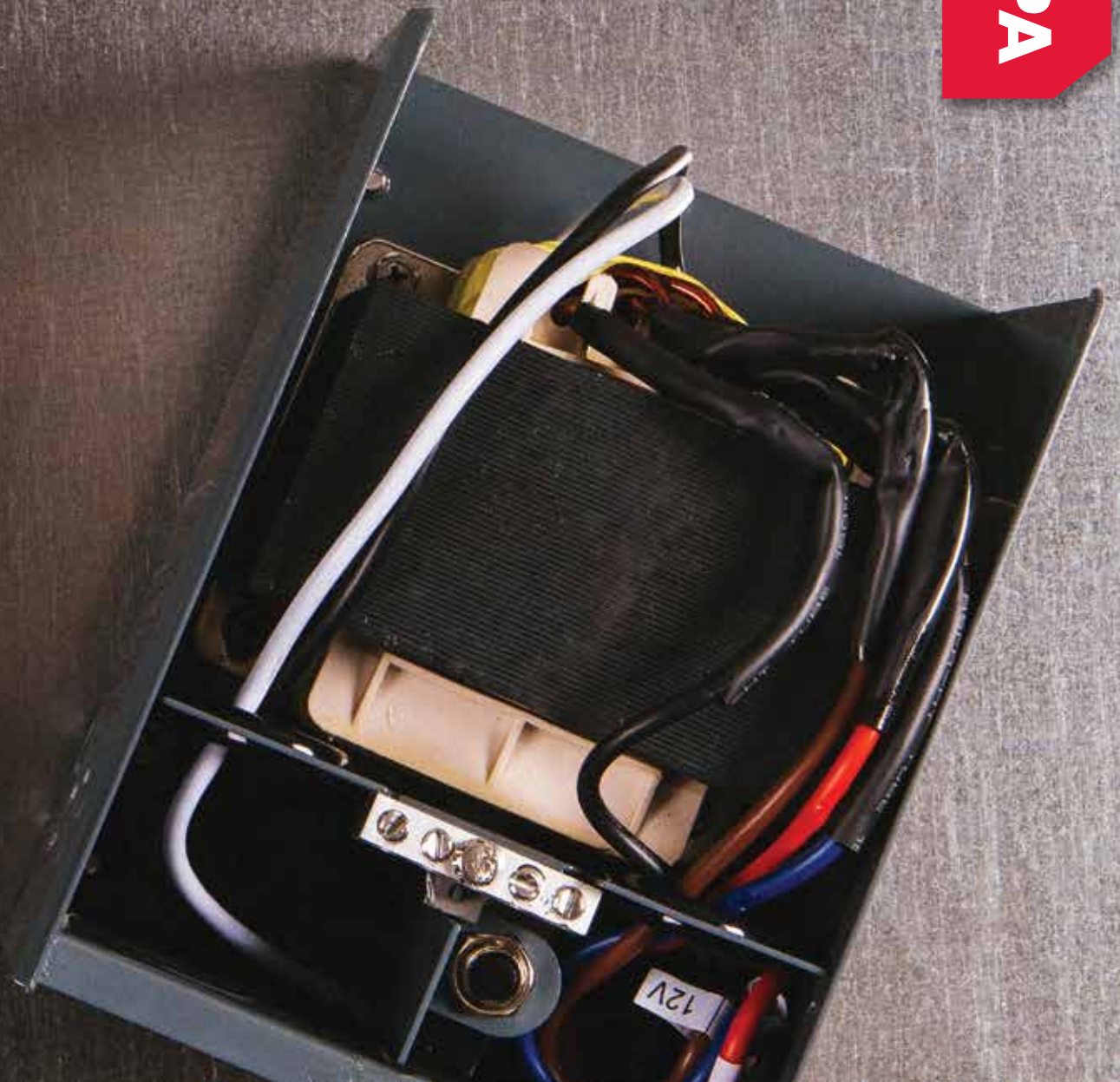
IF OVERLOADED, INTERNAL PROTECTOR  
WILL OPEN AUTOMATICALLY. RESET MAY TAKE  
15 MINUTES. TO CORRECT FAULT, REMOVE  
SHUNT OR OVERLOAD. NO USER  
SERVICEABLE PARTS INSIDE.

MADE IN CHINA

1000-7280



# TORK® POOL & SPA





# POOL & SPA

## Pool And Spa Panels

### PP Panel Series



#### SPECIFICATIONS

- cULus Listed for Pool/Spa Control Panel 3NZM.

#### APPLICATIONS

- Pumps.
- Swimming pools.
- Fountains.
- Ponds.

#### FEATURES

- **Combination Panel:** The PP Panel Series provides a flexible platform to create a custom pool and spa control at an off the shelf price. Start with a blank panel and add timers, freeze controls, circuit breakers, switches and outlets for a custom installation.
- **PP-100R:** 100 amp load center 120-240V, 5/10 circuit breaker base.
- **PP-125R:** 125 amp load center 120-240V, 8/16 circuit breaker base.
- **Controls:** Freeze protection or mechanical and digital timers are all available with unique features not found elsewhere in the industry. Find specification details on pages 589-593.
- **Breakers:** Listed for Cutler Hammer (BR), GE (THQL), Murray/Siemens (MP) and Square D (HOM) (not included).
- **Reversible Door:** Easy-Hinge patented removable and reversible door. Change from left to right opening. Solves installation issues in the field.
- **While-In-Use Compartment:** Inside mounting for two devices with cord exit.
- **Device Mounting:** Provision for mounting one or two devices in any combination accepts toggle, GFCI, X-10 and UPB type devices in, PP-100R and PP-125R enclosures.
- **Transformer:** Select panels include 120V input: 100 watt with output 12V/13V or 300 watt with output 12V/13V/14V.
- **Enclosure:** Metal NEMA 3R with lockable hasp. See pages 589-593 for dimensions.
- \*For stand alone transformer see TPX series page 463.

| CAT. NO.        | UPC CODE | CONTROL | CONTROL INPUT | ADDITIONAL INFORMATION                      |
|-----------------|----------|---------|---------------|---|
| PP-100R         | 94016    | —       | —             | Panel only. Add controls from page 589-593. |
| PP-125R         | 94017    | —       | —             | Panel only. Add controls from page 589-593. |
| PP-125R-P4      | 53007    | P1104-M | 240VAC        | Add another control from page 589-593.      |
| PP-125R-P4-100X | 94018    | P1104-M | 240VAC        | *Includes 100 watt Low Voltage Transformer  |
| PP-125R-P4-300X | 94019    | P1104-M | 240VAC        | *Includes 300 watt Low Voltage Transformer  |

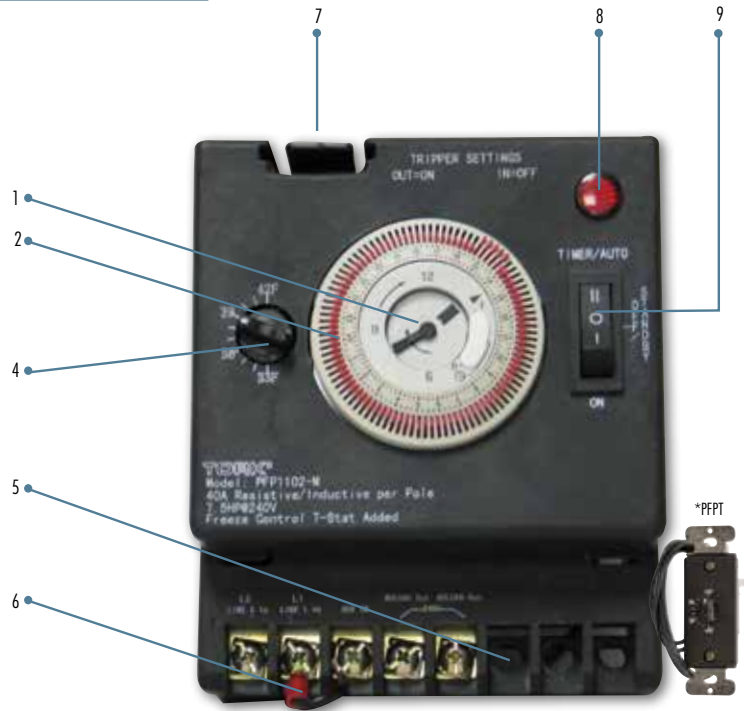
# POOL & SPA Electromechanical Control



## Swimming Pool Timers, 24 Hours P1100 Series

### APPLICATIONS

1. **Real Time Switch Face:** Easy to set and check time.
2. **Captive Trippers:** 15 minute intervals, no lost trippers.
3. **Heater Contacts:** FM suffix includes "Fireman Switch" to turn off pool heater 20-30 minutes before timer turns OFF. Contact rates SPST, 15A @120V.
4. **Thermostat:** PFP models include built in Freeze Protection. No extra wiring. Thermostat turns on load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.
5. **Accessory Contact:** PF models include extra contact to accept PFPT Freeze Protection Accessory. Thermostat turns ON load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.
6. **Timer Interlock:** Makes one second timer dependant on operation of another timer.
7. **Quick Install/Release Lever:** For easy installation and removal when installing into pool panels.
8. **Load Indicator Lamp**
9. **Convenient External Rocker Switch:** 3 position switch: OFF/ON/AUTO. Use switch to turn OFF pump at the end of pool season.



| CAT. NO.      | UPC CODE | INPUT SUPPLY (VAC) 60Hz | CONTACTS | RESISTIVE/INDUCTIVE RATINGS | HP RATING                   | NOTES  |
|---------------|----------|-------------------------|----------|-----------------------------|-----------------------------|--|
| ❄️ PFP3-M     | 94027    | 120/240 w/neutral       | DPST     | 40A                         | 3 HP @ 120V<br>7.5HP @ 240V | Thermostat only                                |
| P1101-M       | 10056    | 120                     | DPST     | 40A                         | 3 HP @ 120V                 | —  |
| P1101FM-M     | 10060    | 120                     | DPST     | 40A                         | 3 HP @ 120V                 | Fireman Switch                                 |
| PF1101-M      | 94020    | 120                     | DPST     | 40A                         | 3 HP @ 120V                 | Accepts PFPT thermostat input                  |
| PF1101FM-M    | 94024    | 120                     | DPST     | 40A                         | 3 HP @ 120V                 | Fireman Switch & Accepts PFPT thermostat input |
| ❄️ PFP1103-M  | 94023    | 120/240 w/neutral       | DPST     | 40A                         | 3 HP @ 120V<br>7.5HP @ 240V | Freeze Protection included                     |
| P1104-M       | 10057    | 240                     | DPST     | 40A                         | 7.5HP @ 240V                | —  |
| P1104FM-M     | 10061    | 240                     | DPST     | 40A                         | 7.5HP @ 240V                | Fireman Switch                                 |
| ❄️ PF1104-M   | 94021    | 240                     | DPST     | 40A                         | 7.5HP @ 240V                | Accepts PFPT thermostat input                  |
| ❄️ PF1104FM-M | 94025    | 240                     | DPST     | 40A                         | 7.5HP @ 240V                | Fireman Switch & Accepts PFPT thermostat input |
| ❄️ PFPT       | 94028    | 120/240                 | —        | —                           | —                           | Thermostat accessory                           |

NOTE: "❄️" = Indicates Freeze Protection.

# POOL & SPA Digital Control

## Swimming Pool Timers, 7 Day PEW1100 Series



### APPLICATIONS

1. **Power Outage Backup:** Battery retains time and schedule.
2. **7 Day Programming One Minute Interval:** Allows for the control of various electrical equipment on a 7 day schedule. 15 schedule weekly programs.
3. **Thermostat:** PFPEW models include built in Freeze Protection. No extra wiring. Thermostat turns on load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.
4. **Accessory Contact:** PFEW models include extra contact to accept PFPT Freeze Protection Accessory. Thermostat turns ON load at user settable level between 33°F and 42°F. Moving water prevents costly freeze damage.
5. **Timer Interlock:** Makes one timer dependant on operation of another timer.
6. **Quick Install/Release Lever:** For easy installation and removal when installing into pool panels.
7. **Large LCD Display**
8. **Load Indicator Lamp**
9. **Large "Manual" Button:** 3 operating modes available: OFF/ON/AUTO. Using the OFF mode, the pool can be closed down without disrupting the time settings.



| CAT. NO.                                | UPC CODE | INPUT SUPPLY (VAC) 60Hz | CONTACTS | RESISTIVE/INDUCTIVE RATINGS | HP RATING                   | NOTES                         |
|---|----------|-------------------------|----------|-----------------------------|-----------------------------|-------------------------------|
| PEW101-M                                | 82432    | 120                     | DPST     | 40A                         | 3 HP @ 120                  | —                             |
| PFEW101-M                               | 94029    | 120                     | DPST     | 40A                         | 3 HP @ 120                  | Accepts PFPT thermostat input |
| PFPEW1102-M                             | 94031    | 240                     | DPST     | 40A                         | 7.5HP @ 240V                | Freeze protection included    |
| PFPEW1103-M                             | 94032    | 120/240 w/neutral       | DPST     | 40A                         | 3 HP @ 120V<br>7.5HP @ 240V | Freeze protection included    |
| PEW104-M                                | 82442    | 240                     | DPST     | 40A                         | 7.5HP @ 240V                | —                             |
| PFEW104-M                               | 94030    | 240                     | DPST     | 40A                         | 7.5HP @ 240V                | Accepts PFPT thermostat input |
| NOTE: "" = Indicates Freeze Protection. |          |                         |          |                             |                             |                               |

# MECHANICAL

## Same On/Off Times Each Day

### Swimming Pool Time Switches

#### 1100 Series



#### SPECIFICATIONS

- **Input Voltage:** 120 or 208-277 VAC 60Hz, varies by model.
  - **Timing Accuracy:** Line frequency.
  - **Terminal Range:** #8 - #14 AWG.
  - **Operating Temperature:** -40° to 165°F (-40° to +74°C).
  - **Power Consumption:** 3 watts maximum.
  - **Enclosure:** Lockable hasp. Type varies by model (See pages 464-468 for dimensions).
- Other Mountings:** Intermatic® Adaptor Plate model #IAP allows any 1100 series to fit into an Intermatic case.

#### APPLICATIONS

- Pool pumps, heaters, lighting.

#### FEATURES

- **Scheduling:** Minimum ON is setting 20 minutes with a minimum OFF setting of 75 minutes. Dial accommodates up to 12 pairs of trippers. One pair included.
- **Manual Override:** Until the next regularly scheduled ON or OFF automatic operation then resumes.
- **Enclosed Motor:** Protects gears for extended life.
- **Standards:** Listed UL917. \*UL Listed, cULus Listed on B suffix units.

#### WIRING DIAGRAMS

REFER TO PAGE XXX

| CAT. NO.             | CERTIFICATION | UPC CODE  | INPUT SUPPLY (VAC) 60Hz | OUTPUT CONTACTS | ENCLOSURE TYPE                                    |
|----------------------|---------------|---|-------------------------|-----------------|---|
| 1101B                | cULus         | 10064   | 120                     | SPST            | Metal Indoor NEMA 1                               |
| 1101BM-IAP           | cULus         | 10073   | 120                     | SPST            | Mechanism and mounting plate                      |
| 1104B                | cULus         | 10067   | 208-277                 | DPST            | Metal Indoor NEMA 1                               |
| 1104B-P              | cULus         | 10070   | 208-277                 | DPST            | Polycarbonate Indoor/Outdoor NEMA 3R              |
| 1104B-O              | cULus         | 10075   | 208-277                 | DPST            | Metal Indoor/Outdoor NEMA 3                       |
| 1104BM-IAP           | cULus         | 10074   | 240                     | DPST            | Mechanism and mounting plate                      |
| 1101FM-N             | —             | 10043   | 120                     | SPST            | Noryl® Indoor/Outdoor NEMA 3R with fireman switch |
| 1104FM-N             | —             | 10044   | 208-277                 | DPST            | Noryl® Indoor/Outdoor NEMA 3R with fireman switch |
| Replacement Trippers | —             | Order #P47 for a pair of ON/OFF trippers. Order #PF48 for a pair of ON/OFF trippers for 1100FM series |                         |                 |   |
| Replacement Motor    | —             | #101 (120V) & #201 (208-277V)   |                         |                 |   |

| TYPE                | VOLTAGE          | CONTACT RATING |
|---------------------|------------------|----------------|
| General Purpose     | 120-277VAC       | 40A            |
| Resistive           | 120-277VAC       | 40A            |
| Tungsten            | 120VAC           | 40A            |
| Ballast             | 120-277VAC       | 20A            |
| LED Driver*         | 120-277VAC       | 20A            |
| Motor               | 120VAC<br>240VAC | 2HP            |
|                     |                  | 5HP            |
| 277VAC Single Phase |                  |                |

\*UL only or cULus on B suffix units.

# POOL & SPA

## Junction Boxes

JBP Series



### APPLICATIONS

- For installation of underwater pool lights or low voltage connections.

### FEATURES

- Durable PVC molded case.
- Interior & exterior bonding.
- Flexibility for conduit sizing.
- Built-in strain relief cord clamps.
- Line or low voltage wiring.
- Complete compliance with ul standard 1241.

| CAT. NO. | UPC CODE | DESCRIPTIONS            | CONDUIT HUBS                 |
|----------|----------|-------------------------|------------------------------|
| JBP75175 | 95457    | Two Light Junction Box  | 3/4" / 1/2" / 1"             |
| JBP57510 | 95485    | Four Light Junction Box | 1/2" / 3/4" / 3/4" / 1" / 1" |

# POOL & SPA Timer Mechanisms



## SPECIFICATIONS

- **Input Voltage:** 120 or 240VAC, 60Hz (varies by model).
- **Timing Accuracy:** Line frequency
- **Terminal Range:** Male 1/4" spade connection
- **Operating Temperature:** -40 °F to +158 °F (-40 °C to +70 °C)
- **Power Consumption:** 5mA max.
- **Size:** 60 x 60 x 35mm
- **Mounting:** 4 mounting holes 54mm square

## APPLICATIONS

- Replacement timer for pool mechanism.
- OEM panel mount timer.

## FEATURES

- **Scheduling:** Minimum ON setting is 15 minutes with minimum OFF setting at 15 minutes. Dial has 96 captive tabs.
- **Easy-Set:** Real time clock face and day/night markings for setting trippers.
- **Bypass Switch:** Sets timer to permanent ON, OFF or timer operation.

| CAT. NO. | UPC CODE | INPUT VOLTAGE (VAC) 60 Hz | OUTPUT CONTACTS |
|----------|----------|---------------------------|-----------------|
| 75151    | 94062    | 125                       | SPDT            |
| 75152    | 94063    | 240                       | SPDT            |

| LOAD TYPE       | RATINGS             |                     |
|-----------------|---------------------|---------------------|
|                 | 75151 VOLTAGE (VAC) | 75152 VOLTAGE (VAC) |
| General Purpose | 125, 15A            | 240, 15A            |
| Resistive       | —                   | 240, 15A            |
| Motor           | —                   | 240, 3/4 HP         |

# POOL & SPA

## Digital Two-Speed Pump Timers

### TPX Series



#### SPECIFICATIONS

- **Input Voltage:** 120 or 240VAC, 60Hz.
- **Output Voltage:**
  - TPX100(S): 12 & 13 VAC, 100 Watts max.
  - TPS300(S): 12, 13, & 14 VAC, 300 Watts max.
  - TPX600: 12, 13, & 14 VAC, 2 x 300 Watts max.
- **Color:** Grey or Stainless Steel.
- **Enclosure Size:**
  - TPX100(S) and TPX300(S) 7.2 H x 5.1 W x 4.2 D inches.
  - TPX600 10.4 H x 7.3 W x 4.2 D inches.

#### APPLICATIONS

- Swimming pool and spa lighting.
- Submersible fixtures.
- Landscape lighting.
- Fountain lighting.

#### FEATURES

- **Low Voltage:** Designed for the safe operation of 12 volt lighting loads including no niche fixtures.
- **Pool & Spa:** 100 watt unit for outdoor use only. 300 and 600 watt units for indoor or outdoor use.
- **Landscape Lighting:** 100 watt unit for outdoor use only. 300 and 600 watt units for indoor or outdoor use.  
All units for outdoor use only in Canada.
- **Safe Operation:** Full ground shield between primary and secondary.
- **Overload Protection:** Automatic resetting internal overload protection.



| CAT. NO. | UPC CODE | INPUT SUPPLY<br>60Hz  | OUTPUT CONTACTS |
|----------|----------|-----------------------|-----------------|
| TPX100   | 94052    | 120VAC 1 AMP Max.     | Painted Steel   |
| TPX100S  | 94053    | 120VAC 1 AMP Max.     | Stainless Steel |
| TPX300   | 94054    | 120VAC 3 AMP Max.     | Painted Steel   |
| TPX300S  | 94055    | 120VAC 3 AMP Max.     | Stainless Steel |
| TPX600   | 94056    | 120VAC 2 x 3 AMP Max. | Painted Steel   |



# ENCLOSURES

**Standard For Models**

|        |          |
|--------|----------|
| 1101B  | 7122     |
| 1102B  | 8001     |
| 1103B  | 8004     |
| 1104B  | 8061     |
| 1101FM | 8121     |
| 1104FM | 8301     |
| 7100   | 8602     |
| 7102   | TU40-Y   |
| 7200   | EW101B-Y |
| 7202   | EW103B-Y |
| 1101-7 | EW201-Y  |
| WH2B   | EW120B-Y |
| 7120   |          |

**Metal Indoor NEMA 1 Enclosure #68229**

**Standard For Models**

|                |
|----------------|
| 7300, L, Z, ZL |
| 7302, L, Z, ZL |
| 8007U-0        |
| 8001-0         |
| 8001U-0        |
| 8007-0         |
| DZS100BP-0     |
| DZS200BP-0     |
| DZM200BP-0     |
| DZS200BP-0     |
| DW200B-0       |

**METAL Indoor/Outdoor NEMA 3 Model 9000A – Suffix "O"**

NEMA 1 enclosures standard for model 5401A

**Standard For Models**

|       |            |
|-------|------------|
| 7220  | LDS-A      |
| 7200L | LDSH-A     |
| 7202L | DG100A-Y   |
| 7120L | DGM100A-Y  |
| 1847A | DGU100A-Y  |
| 8007  | DGUM100A-Y |
| 8007L | LC200      |
| 8007U | 8001U      |
| 8008  |            |
| 8008L |            |

**Metal Indoor NEMA 1 Enclosure #63100-6**

**Standard For Models**

|         |
|---------|
| 1103B-0 |
| 1104B-0 |
| DPC201  |

**METAL Indoor/Outdoor Model 9000B – Suffix "O"**

**Standard For Models**

|         |
|---------|
| W100    |
| W200    |
| W202    |
| W120    |
| W220    |
| W222    |
| W220L   |
| W222L   |
| 1847 AW |
| W400B   |
| W402B   |
| W400BL  |

**Metal Indoor NEMA 1 Enclosure #70100**

**Standard For Models**

|          |
|----------|
| TZ220L-0 |
| TZ300L-0 |
| T920L-0  |
| T930L-0  |

**Metal Indoor/Outdoor Model #9006**

# ENCLOSURES

**Standard For Models**      **NORYL® Indoor/Outdoor NEMA 3R Model #900N**

7200Z, ZL  
7202Z, ZL  
7120Z, ZL  
7122Z, ZL  
8001-N  
8001U-N  
SMC-3D  
D Series  
DZM Series  
DZS Series  
DTS Series  
DW Series  
DWZ Series

**Standard For Models**      **Polycarbonate Indoor/Outdoor NEMA 3R #74431-1**

TU40  
1101B-P  
1103B-P  
1104B-P  
EH20C  
DTU40  
E101PB  
E Series  
EW Series  
EWZ Series

**Standard For Models**      **NORYL® & LEXAN® Indoor/Outdoor NEMA 3R Model #900NC**

8001-NC  
DGLC100A-NC  
DGLC200A-NC

**Standard For Models**      **Polycarbonate Indoor/Outdoor NEMA 3R With Clear Cover**

1101B-PC  
1103B-PC  
1104B-PC  
EW103B-C  
EW120B-C

NEMA 1 enclosure standard for models DTWH40

**Standard For Models**      **Metal Indoor**

SA300  
SA306

**Standard For Models**      **Metal Indoor/Outdoor**

SA400

# ENCLOSURES

**Standard For Models**    **ELC74 Enclosure**

ELC74

Technical drawing of the ELC74 enclosure. It includes three views: a front view showing a square cutout and the 'TORK' logo, a side view showing a latch and a circular port, and a bottom view showing three circular ports. Dimensions are: width 7-1/4, height 11-5/16, and depth 3-1/2.

**Standard For Models**    **DLC400BP**

DLC400BP

Technical drawing of the DLC400BP enclosure. It includes three views: a front view showing a square cutout and the 'TORK' logo, a side view showing a latch and two circular ports, and a bottom view showing six circular ports. Dimensions are: width 12-1/4, height 14-1/4, and depth 3-3/8.

**Standard For Models**    **ELC78 & ELC712 Enclosure**

ELC78  
ELC712

Technical drawing of the ELC78 & ELC712 enclosure. It includes three views: a front view showing a square cutout and the 'TORK' logo, a side view showing a circular port, and a bottom view showing three circular ports. Dimensions are: height 16-1/8, width 14-1/2, and depth 6.

**Standard For Models**    **5441A**

5441A

Technical drawing of the 5441A enclosure. It includes three views: a front view showing a square cutout and the 'TORK' logo, a side view showing a circular port, and a bottom view showing three circular ports. Dimensions are: width 12-3/4, height 20-3/4, and depth 4-5/8.

**Standard For Models**    **Metal Indoor NEMA 1 Enclosure  
Model #63016-1**

TZ220L  
TZ300L  
W300  
W300L  
W302L  
TW220L  
TW300L  
T920L  
T930L  
TW222L  
TW302L

Technical drawing of the Metal Indoor NEMA 1 Enclosure. It includes three views: a front view showing the 'TORK' logo, a side view showing a latch and a circular port, and a bottom view showing three circular ports. Dimensions are: height 12-1/8, width 8-1/8, and depth 4-3/4.

**Standard For Models**    **Metal Duplex Indoor/Outdoor  
Model #9004L**

1101D  
1104D  
1104DF

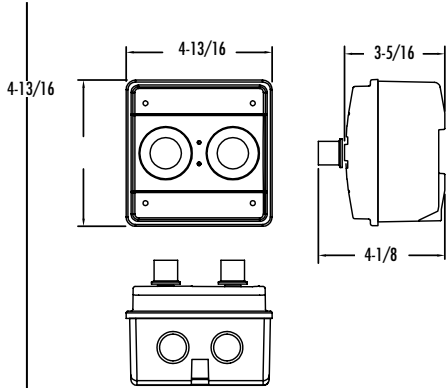
Technical drawing of the Metal Duplex Indoor/Outdoor enclosure. It includes three views: a front view showing the 'TORK' logo, a side view showing a latch and a circular port, and a bottom view showing six circular ports. Dimensions are: width 10-3/8, height 8-1/8, and depth 4-1/4.

# ENCLOSURES

## Standard For Models

## EWJT & E500T Series Enclosure

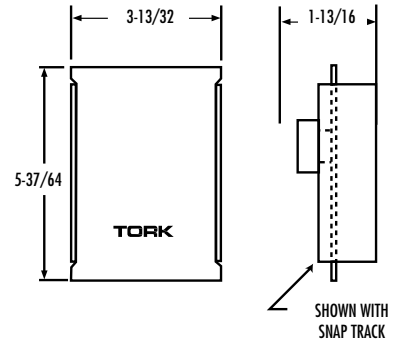
EJWT  
E500T  
E501T  
E502T  
ACT30MA



## Standard For Models

## LDS Series Mounting with Bracket

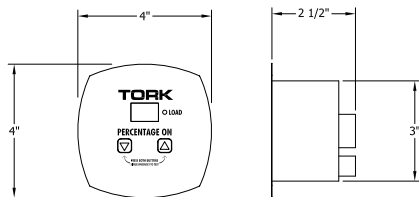
LDS



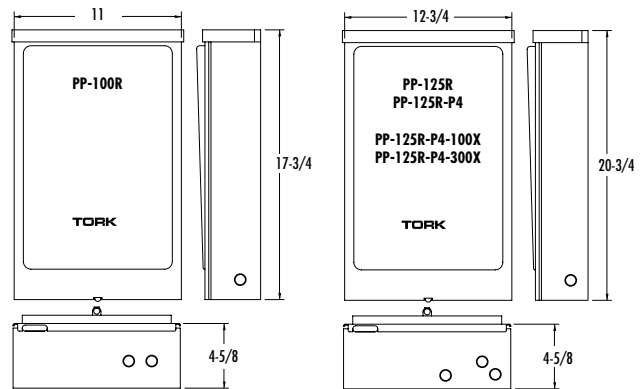
## Standard For Models

## PCT15M

PCT15M



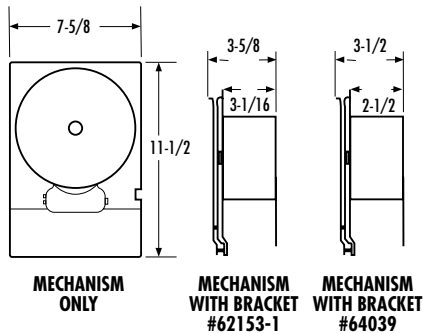
## Pool Panel Series



## Option For Models

## Mechanism & Mounting Bracket

Use bracket  
#64039  
W100  
W120  
W200  
W220  
W202  
W222  
Use bracket  
#62153-1  
W300  
W302



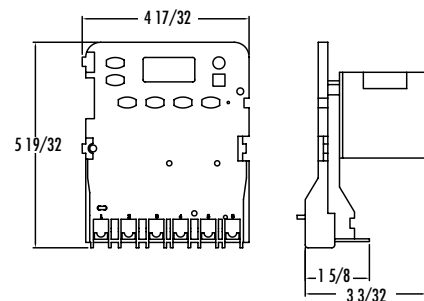
## Standard For Models

## W/EW/EWZ Series

## Bracket #65447

EWZ101-MB  
EWZ103-MB  
EWZ120-MB  
EWZ201-MB

## MECHANISM BRACKET



# ENCLOSURES

**Standard For Models**    **IAP Bracket Intermatic® Adapter Plate**

1101BM-IAP  
1104BM-IAP  
Option For Models  
1102B  
1103B  
7100  
7102  
7200  
7202  
7120  
7122  
E Series  
EW Series  
EWZ Series

GROUND SCREW

CLEARANCE HOLE FOR GROUND SCREW

**Standard For Models**    **Mechanism & Mounting Bracket #65447**

8001-LC/WB  
1101-M  
1102-M  
1103-M  
1104-M  
7000 Series  
1847A  
8121  
8601  
8301

4-9/16

7-1/2

3-1/2

**MECHANISM ONLY**

**Standard For Models**    **5404A Series**

5403A  
5404A  
5404-3A

5-1/4"

8-1/4"

4-5/8"

TORK

# ALPHANUMERIC INDEX

| <b>ITEM</b> | <b>PAGE</b> | <b>ITEM</b>  | <b>PAGE</b> | <b>ITEM</b>  | <b>PAGE</b> |
|-------------|-------------|--------------|-------------|--------------|-------------|
| 1014        | 108         | -ID          | 252         | 418-48175    | 247         |
| 1082        | 272         | -MH          | 257         | 4180-601750  | 249         |
| 1101        | 320         | -P           | 251         | 454E         | 366         |
| 2000        | 411         | -PM          | 251         | 455E         | 366         |
| 2001        | 412         | -R           | 253         | 457Z         | 366         |
| 2002        | 412         | -SB          | 259         | 460E         | 366         |
| 2006        | 412         | 1101-7       | 320         | 5001M        | 414         |
| 2018        | 412         | 1101B        | 320         | 5004M        | 414         |
| 2021        | 413         | 1101B        | 444         | 5007M        | 414         |
| 2022        | 413         | 1101B-P      | 320         | 5008ME       | 414         |
| 2024        | 109         | 1101B-PC     | 320         | 5021M        | 414         |
| 2101        | 409         | 1101BM-IAP   | 444         | 5024M        | 414         |
| 2104        | 409         | 1101BM-IAP   | 320         | 5231A        | 416         |
| 2107        | 409         | 1101FM-N     | 444         | 5237-UL      | 418         |
| 2115        | 410         | 1102B        | 320         | 5237A        | 416         |
| 2116        | 410         | 1103B        | 320         | 530-1-1450-5 | 254         |
| 2117        | 410         | 1103B-O      | 320         | 5401A        | 365         |
| 2223        | 422         | 1103B-P      | 320         | 5403A        | 421         |
| 2224        | 422         | 1103B-PC     | 320         | 5404-3A      | 421         |
| 2227        | 422         | 1104B        | 320         | 5404A        | 421         |
| 2421        | 422         | 1104B        | 444         | 5441A        | 365         |
| 3000        | 408         | 1104B-O      | 444         | 5500-OC      | 422         |
| 3002        | 408         | 1104B-O      | 320         | 5737TM       | 420         |
| 3006        | 408         | 1104B-P      | 444         | 5737TZ       | 420         |
| 3010        | 408         | 1104B-P      | 320         | 602B         | 329         |
| 5500        | 422         | 1104B-PC     | 320         | 642E         | 368         |
| 7100        | 321         | 1104BM-IAP   | 444         | 652B         | 329         |
| 7102        | 321         | 1104BM-IAP   | 320         | 654E         | 368         |
| 7120        | 321         | 1104FM-N     | 444         | 701B         | 330         |
| 7122        | 321         | 1109A        | 320         | 711A         | 330         |
| 7200        | 321         | 1109A-O      | 320         | 7120L        | 321         |
| 7202        | 321         | 2-14, 4-14   | 104         | 7120Z-       | 322         |
| 7220        | 321         | 2-T          | 39          | 7120ZL-      | 322         |
| 7300        | 321         | 2000-2       | 411         | 7200L        | 321         |
| 7302        | 321         | 2005A        | 415         | 7200Z-       | 322         |
| 8001        | 323         | 2005B        | 417         | 7200ZL-      | 322         |
| 8004        | 323         | 2007A        | 415         | 7202L        | 321         |
| 8007        | 323         | 2007B        | 417         | 7202Z-       | 322         |
| 8008        | 323         | 2008B        | 417         | 7202ZL-      | 322         |
| 8121        | 324         | 2101A        | 409         | 7220L        | 321         |
| 8601        | 324         | 2104A        | 409         | 7300L        | 321         |
| 75151       | 446         | 2107A        | 409         | 7300Z-       | 322         |
| 75152       | 446         | 2119A        | 410         | 7300ZL-      | 322         |
| PFPEW1102-M | 443         | 2129A        | 409         | 7302Z-       | 322         |
| PFPEW1103-M | 443         | 2C-14, 4C-14 | 105         | 7302ZL-      | 322         |
| 5026M       | 414         | 402B         | 328         | 73866        | 422         |
| PF1104FM-M  | 442         | 403B         | 328         | 75(000)CQ    | 160         |
| TA1245Y-50  | 438         | 405B         | 328         | 75(000)CW    | 160         |

| ITEM           | PAGE     | ITEM    | PAGE    | ITEM        | PAGE |
|----------------|----------|---------|---------|-------------|------|
| 750-16-1150-20 | 255      | AL-N    | 62      | DG100A      | 350  |
| 76(000)PS      | 161      | AM      | 121     | DG100A-Y    | 350  |
| 76(000)PW      | 161      | APS     | 98      | DG180A      | 360  |
| 77(000)RQ      | 159      | AS      | 121     | DG200A      | 350  |
| 77(000)RW      | 160      | ASC-T   | 63      | DG280A      | 360  |
| 78(000)TQ      | 163      | B       | 139     | DGLC100A-NC | 356  |
| 78(000)TS      | 163      | BKM     | 306     | DGLC200A-NC | 356  |
| 78(000)TW      | 163      | BKS     | 305     | DGM100A     | 350  |
| 79(000)LQ      | 167      | BS      | 47      | DGM100A-Y   | 350  |
| 79(000)LW      | 166      | BT      | 193     | DGS100A     | 360  |
| 79(000)MS      | 160, 165 | BTP     | 45      | DGU100A-Y   | 356  |
| 8001-LC/WB     | 323      | C       | 68, 85  | DGUM100A-Y* | 356  |
| 8001-N         | 323      | C-N     | 135     | DGUM100A*   | 356  |
| 8001-O         | 323      | C412H   | 332     | DIN100B     | 364  |
| 8001U          | 323      | C460M   | 332     | DIN200B     | 364  |
| 8001U-N        | 323      | C502H   | 332     | DLC400BP    | 358  |
| 8001U-O        | 323      | C506H   | 332     | DR          | 126  |
| 8007-O         | 323      | C512H   | 332     | DRE         | 125  |
| 8007U          | 323      | C512HH  | 332     | DRJ         | 125  |
| 8007U-O        | 323      | C515M   | 332     | DRT         | 125  |
| A502H          | 331      | C530M   | 332     | DS          | 210  |
| A502HHW        | 331      | C560M   | 332     | DSS         | 190  |
| A502HW         | 331      | C560MH  | 332     | DTD35LED    | 301  |
| A506H          | 331      | CAL     | 69      | DTS100B     | 352  |
| A506HHW        | 331      | CB      | 107     | DTS200B     | 352  |
| A506HW         | 331      | CB      | 278     | DTS400B     | 352  |
| A512H          | 331      | CBH     | 278     | DTU40       | 343  |
| A512HH         | 331      | CCM     | 276     | DTWH40      | 343  |
| A512HHW        | 331      | CCR     | 276     | DWZ100B     | 351  |
| A512HW         | 331      | CD      | 274     | DWZ200B     | 351  |
| A515M          | 331      | CN      | 106     | DZM200BP    | 354  |
| A515MA         | 331      | COS-L   | 398     | DZS100BP    | 353  |
| A515MH         | 331      | COS-L2T | 397     | DZS200BP    | 353  |
| A515MHW        | 331      | COS-LU  | 399     | DZS400BP    | 353  |
| A515MW         | 331      | COS-M   | 400     | E101B       | 346  |
| A530M          | 331      | CPS-L   | 402     | E101PB      | 346  |
| A530MA         | 331      | CT      | 92, 240 | E103B       | 346  |
| A530MH         | 331      | CTH     | 93, 240 | E120B       | 346  |
| A530MHW        | 331      | CTK-1   | 158     | E201B       | 346  |
| A530MW         | 331      | CTP     | 256     | E500T       | 363  |
| A560M          | 331      | D1060LA | 376     | E501T       | 363  |
| A560MH         | 331      | D1060M  | 376     | E502T       | 363  |
| A560MHW        | 331      | D1060MW | 376     | EEL         | 308  |
| A560MW         | 331      | D212H   | 376     | EG          | 231  |
| ACT30MA        | 361      | D212HA  | 376     | EH20C       | 344  |
| ADJCC          | 265      | D212HW  | 376     | EJWT        | 361  |
| AL             | 61       | DE      | 56      | EL          | 302  |
| AL             | 121      | DFR     | 152     | ELC712      | 357  |



# ALPHANUMERIC INDEX

| ITEM       | PAGE | ITEM    | PAGE          | ITEM     | PAGE       |
|------------|------|---------|---------------|----------|------------|
| ELC74      | 357  | FD      | 183           | HT       | 149        |
| ELC78      | 357  | FL20LED | 297           | HTGE     | 242        |
| EMFW       | 307  | FL40LED | 298           | HWHS     | 204        |
| EMHD       | 310  | FLF     | 304           | IF       | 151        |
| EMTW       | 307  | FQZ     | 126           | IFL      | 152        |
| EMTW       | 309  | FS      | 54            | IFS      | 151        |
| EMWL       | 309  | FS      | 212, 243      | IM       | 150        |
| EPC-A      | 356  | FTB     | 125           | IPCS     | 103        |
| EPC-LC     | 357  | FTH     | 261           | IPL      | 16         |
| ESGHS      | 197  | FTS     | 277           | IPLD     | 18         |
| ESGS       | 195  | FW      | 286           | IPLDH    | 20         |
| ESGTS      | 195  | G       | 228, 230, 232 | IPLDS    | 21         |
| ESSLK      | 196  | G-BS    | 227           | IPLG     | 13         |
| ESUF       | 194  | G-DB    | 226           | IPLM     | 22         |
| ET-CP      | 133  | G-S     | 228           | IPLMD    | 23         |
| EW101B     | 347  | G-S-BS  | 225           | ISE      | 70         |
| EW101B-Y   | 347  | G-S-DB  | 225           | ISPB     | 25, 26     |
| EW103B     | 347  | G-S-DBR | 227           | ISPBO    | 26         |
| EW103B-C   | 347  | G-SBS   | 228           | ISPBS    | 26         |
| EW103B-Y   | 347  | GBA     | 237           | ISPC     | 25         |
| EW120B     | 347  | GBC     | 237           | ISR      | 15         |
| EW120B-C   | 347  | GBIAL   | 236           | ISRH     | 15         |
| EW120B-Y   | 347  | GBIBZ   | 236           | IT       | 14         |
| EW201B     | 347  | GC      | 48            | ITB      | 124        |
| EW201B-Y   | 347  | GCA     | 229           | ITG      | 13         |
| EWDT       | 174  | GGC     | 244           | ITH      | 14         |
| EWEF       | 175  | GH      | 233           | ITO      | 14         |
| EWFT       | 175  | GHM     | 233           | ITOG     | 13         |
| EWG        | 172  | GL      | 80            | JBP57510 | 445        |
| EWGC       | 176  | GL-B    | 86            | JBP75175 | 445        |
| EWHR       | 176  | GL-N    | 82            | KA       | 272        |
| EWMT       | 176  | GL-NB   | 89            | KC       | 272        |
| EWP        | 171  | GLA     | 46            | L        | 40, 50, 71 |
| EWPP       | 173  | GLA     | 224           | L-B      | 87         |
| EWRT       | 174  | GLC     | 223, 224      | L-NB     | 88         |
| EWSR       | 175  | GP      | 48            | L4       | 41         |
| EWWH       | 174  | GRC     | 234           | LC200    | 355        |
| EWZ101     | 348  | GSC     | 244           | LCS115M  | 357        |
| EWZ101-MB  | 348  | GSH     | 244           | LDS      | 359        |
| EWZ120     | 348  | GSS     | 198           | LK       | 111        |
| EWZ120-MB  | 348  | GZ      | 234           | LL       | 49         |
| EWZ201C    | 349  | HB      | 285           | LL2      | 41         |
| EWZ201C-MB | 349  | HHK     | 207           | LL4      | 41         |
| EXL        | 308  | HMSS    | 201           | LN       | 74         |
| EZ         | 60   | HN      | 285           | M        | 150        |
| F          | 153  | HOS-M   | 401           | M-250    | 275        |
| FBP        | 310  | HPS30   | 365           | M-500    | 275        |
| FCT        | 150  | HSC     | 203           | MC       | 266        |

| ITEM       | PAGE | ITEM            | PAGE    | ITEM    | PAGE   |
|------------|------|-----------------|---------|---------|--------|
| MP         | 184  | PHNM            | 304     | SF      | 152    |
| MPM        | 265  | PIWC            | 134     | SFTZ    | 52     |
| MTK        | 154  | PL              | 28      | SITG    | 13     |
| MTK-1210   | 157  | PLH             | 27      | SKAB    | 202    |
| MTK-1614   | 157  | PM              | 148     | SKCB    | 202    |
| MTK-175    | 156  | PMC             | 263     | SKDB    | 202    |
| MTK-2      | 154  | PP-100R         | 441     | SKSS    | 201    |
| MTK-2218   | 157  | PP-125R         | 441     | SKUF    | 202    |
| MTKL-100   | 155  | PP-125R-P4      | 441     | SL-N    | 78     |
| N          | 95   | PP-125R-P4-100X | 441     | SLUL    | 312    |
| N-L        | 96   | PP-125R-P4-300X | 441     | SLW     | 286    |
| N-SP       | 97   | PT              | 64      | SM      | 262    |
| N1240      | 271  | PT              | 148     | SOTZ    | 52     |
| N121D      | 271  | PTC             | 148     | SPM     | 99     |
| NCH        | 267  | PTO             | 65      | SR      | 43     |
| NH         | 279  | PTS             | 65      | SRPE    | 191    |
| NMS        | 110  | QF              | 304     | SS      | 253    |
| NMT        | 110  | R               | 145     | SS      | 287    |
| Nsi-12     | 273  | RC              | 227     | SS13B   | 375    |
| NSi33-12   | 158  | RDC1/0          | 275     | SS13F   | 375    |
| OD58       | 275  | RLD             | 186     | SS20    | 375    |
| OD581      | 275  | ROS             | 199     | SS20F   | 375    |
| OD59       | 275  | RS              | 312     | SS403   | 374    |
| OX         | 210  | RSK             | 200     | SS410   | 374    |
| P          | 151  | S               | 91      | SS423   | 374    |
| P-750      | 273  | S               | 140     | SS703Z  | 372    |
| P1101-M    | 442  | SA              | 79, 243 | SS703ZA | 372    |
| P1101FM-M  | 442  | SA011           | 328     | SS705Z  | 372    |
| P1104-M    | 442  | SA100           | 328     | SS721Z  | 371    |
| P1104FM-M  | 442  | SA105           | 328     | SS721ZA | 371    |
| PAA        | 58   | SA110           | 328     | SS903   | 370    |
| PAE        | 58   | SA130           | 366     | SS910   | 370    |
| PC         | 182  | SA134           | 366     | SSBW    | 287    |
| PC-LSN     | 181  | SA170           | 373     | SSET    | 260    |
| PCLS       | 179  | SA204           | 368     | SSFW    | 287    |
| PCT15M     | 362  | SA205           | 329     | SSHN    | 287    |
| PEW101-M   | 443  | SA210           | 369     | SSSLW   | 287    |
| PEW104-M   | 443  | SA215           | 329     | STL     | 51     |
| PF         | 148  | SA220           | 369     | SWL     | 211    |
| PF1101-M   | 442  | SA230           | 367     | T       | 39, 50 |
| PF1101FM-M | 442  | SA300           | 345     | T2      | 42     |
| PF1104-M   | 442  | SA306           | 345     | T920L   | 327    |
| PFEW101-M  | 443  | SA400           | 345     | T930L   | 327    |
| PFEW104-M  | 443  | SA500           | 367     | TA-ADA  | 438    |
| PFP1103-M  | 442  | SB              | 135     | TA-ADR  | 438    |
| PFP3-M     | 442  | SC              | 84      | TA-BBSF | 438    |
| PFPT       | 442  | SC              | 312     | TA-D5B  | 438    |
| PG         | 244  | SC-B            | 90      | TA-D6A  | 438    |

# ALPHANUMERIC INDEX

| ITEM       | PAGE | ITEM            | PAGE    | ITEM     | PAGE |
|------------|------|-----------------|---------|----------|------|
| TA-D7A     | 438  | TA600           | 434     | TP       | 44   |
| TA-D7C     | 438  | TA601           | 434     | TPX100   | 447  |
| TA-D7R     | 438  | TA602           | 434     | TPX100S  | 447  |
| TA-D8R     | 438  | TA603           | 434     | TPX300   | 447  |
| TA-DOK     | 311  | TA603L          | 434     | TPX300S  | 447  |
| TA-L10     | 438  | TA606           | 437     | TPX600   | 447  |
| TA-L10-1   | 438  | TA61            | 433     | TRP-24B  | 403  |
| TA-L6-2    | 438  | TA62            | 433     | TRP-24I  | 403  |
| TA-L8      | 438  | TA620           | 434     | TRT      | 260  |
| TA-MTS     | 428  | TA620B          | 434     | TS       | 53   |
| TA-SFPF    | 438  | TA620L          | 434     | TU40     | 319  |
| TA-SFPFR   | 438  | TA620LB         | 434     | TU40-Y   | 319  |
| TA-WBBF    | 438  | TA631           | 434     | TW       | 284  |
| TA09       | 433  | TA631L          | 434     | TWHS     | 208  |
| TA1245Y-75 | 438  | TA640           | 437     | UC       | 238  |
| TA131DAU1  | 436  | TA656B          | 434     | UCF      | 311  |
| TA131DRN5  | 436  | TA666BK         | 434     | ULT      | 193  |
| TA152      | 433  | TA67W           | 433     | ULTD     | 192  |
| TA154      | 433  | TA725           | 430     | USB-MMP  | 353  |
| TA1786B    | 434  | TA740           | 430     | USB-MMP  | 354  |
| TA1786CB   | 434  | TA744           | 430     | V        | 258  |
| TA1887 G   | 431  | TA874-N5        | 427     | VL       | 190  |
| TA236      | 433  | TA874-N5R (Red) | 427     | VM       | 189  |
| TA270A     | 432  | TA875-1G1       | 428     | VTB      | 312  |
| TA315-1N5  | 432  | TA875-G1        | 427     | VTC13LED | 299  |
| TA340-10G5 | 429  | TA876-N5        | 427     | VTW      | 312  |
| TA340-6G5  | 429  | TA879           | 436     | VTW13LED | 300  |
| TA340-6N5  | 429  | TA880-N5        | 427     | W        | 59   |
| TA434-10N5 | 429  | TA93-2AN5       | 435     | W100     | 326  |
| TA434-6N5  | 429  | TA93-2BN5       | 435     | W120     | 326  |
| TA44       | 433  | TA93-2CN5       | 435     | W200     | 326  |
| TA45       | 433  | TA93-2RN5       | 435     | W202     | 326  |
| TA46       | 433  | TA94AN5         | 435     | W220     | 326  |
| TA47AN5    | 435  | TA94BN5         | 435     | W220L    | 326  |
| TA47RN5    | 435  | TA94RN5         | 435     | W222     | 326  |
| TA502      | 433  | TAC212WL        | 431     | W222L    | 326  |
| TA502SW    | 438  | TAC212WS        | 431     | W300     | 326  |
| TA52AN5    | 435  | TB              | 124     | W300L    | 326  |
| TA52BN5    | 435  | TBS             | 126     | W302L    | 326  |
| TA52RN5    | 435  | TC              | 55, 101 | W400B    | 326  |
| TA53AG1    | 436  | TCP             | 102     | W400BL   | 326  |
| TA54AE1    | 436  | TES             | 281     | W402B    | 326  |
| TA590      | 438  | TFZ             | 252     | WAGGS    | 194  |
| TA591      | 438  | TGE             | 241     | WC       | 129  |
| TA592      | 438  | THK             | 206     | WH2B     | 325  |
| TA598      | 438  | TL              | 57      | WLD      | 185  |
| TA599      | 438  | TL              | 279     | WMB      | 187  |
| TA60       | 433  | TOP             | 135     | WMC      | 188  |

| <b>ITEM</b>    | <b>PAGE</b> |
|----------------|-------------|
| WOS-M.....     | 394         |
| WOS-M2R.....   | 395         |
| WOS-MN.....    | 394         |
| WOS-MN2R.....  | 395         |
| WOS-MN2T.....  | 396         |
| WOS-SN.....    | 393         |
| WP.....        | 302         |
| WP12LED.....   | 292         |
| WP13LEDPC..... | 291         |
| WP36LED.....   | 293         |
| WP38LED.....   | 294         |
| WP68LED.....   | 295         |
| WP77LED.....   | 296         |
| WPLD.....      | 303         |
| WPM.....       | 303         |
| WRD.....       | 66          |
| WWC.....       | 131         |
| ZTL124.....    | 419         |
| ZTL124F.....   | 419         |

## NOTES



**NSi Headquarters**

9730 Northcross Center Court  
Huntersville, North Carolina  
28078 USA



**Fax**

800.841.5566



**Phone**

Customer Service 800.321.5847  
Technical Support 888.500.4598



**Email**

[nsi@nsiindustries.com](mailto:nsi@nsiindustries.com)

**NSi Vendor Number: 662381**

**TORK® Vendor Number: 786261**



**Web**

[www.nsiindustries.com](http://www.nsiindustries.com)

Find Us On:



---

## Other Products Available

NSi can provide many other products for special applications which are not listed in this catalog. If you require an item which you do not find listed, please contact us. We would be pleased to provide a quotation upon receipt of a drawing or a sample.

## Guarantee

It is our goal to provide extraordinary products and services on a daily basis. If our products or service do not meet with your satisfaction, please let us know immediately and we promise to make every reasonable effort to remedy the situation.







800.321.5847  
[www.nsiindustries.com](http://www.nsiindustries.com)

