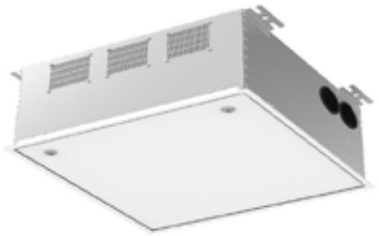
DATASHEET

Zone Enclosure for In-Ceiling Installations ›

The In-Ceiling Enclosure is an adaptable product, accommodating up to 48 copper ports or up to 96 fiber splices or MTP/MPO fibers and 1U of active equipment. The product is designed to support a Zone Cabling infrastructure in a drop/suspended ceiling environment.



The Molex In-Ceiling Zone Enclosure is a robust, and versatile product designed to house passive and active network equipment in a conveniently located, drop/suspended ceiling space to service a local work area or zone.

The product sits flush in a 600mm x 600mm/2ft x 2ft drop/suspended ceiling grid. By utilizing an In-Ceiling Zone Enclosure, the end-user takes advantage of shorter and easier to move, add and change, cable runs to the zone work area, as well as facilitating connections to wireless access points (WAPs), LED lighting systems, security cameras and other PoE building devices located in that zone.

The locking outer door allows access to the pull-down network equipment platform. Hydraulic, slow-release dampers fitted to each side of the network equipment platform provides safe and easy access to the connectivity. The network equipment platform must be locked following equipment installation for safety.

The network equipment platform features 19” equipment mounting rails, 5U capacity, and an integral cable management plate for the support of incoming and outgoing cable bundles. The Enclosure features eight cable entry knockouts for flexible cable routing. Cable tie securing points are provided on the roof and side walls of the enclosure for efficient cable routing and slack management. Sufficient space is provided for a fan unit (supplied separately) for temperature control of active equipment and three dust filters are included to protect the installation from debris.

The product accepts the Molex PowerCat range of unloaded copper patch panels and labor saving pre-terminated solid cable assemblies. The Molex 19” 1U fiber optic enclosures accommodating spliced and pre-terminated fiber harnesses or ModLink MTP/MPO cassettes are an ideal FTTZ (Fiber to the Zone) solution compatible with the Enclosure.

The In-Ceiling Zone Enclosure must be secured to the building structure using threaded steel rods and bolts.

IMPORTANT NOTE: Only trained installers should install this product. Improper installation of this product could result in damage to the enclosure, the network equipment housed inside or personal injury. Molex cannot be held responsible for damage to the enclosure, the network equipment or personal injury resulting from improper installation or misuse.

www.molexces.com/solutions-overview/zone-cabling/

Order No. CPT-00055 SK/2024.04

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Zone Enclosure for In-Ceiling Installations ›

FEATURES AND ADVANTAGES

- Designed specifically for 600mm x 600mm or 2ft x 2ft drop/suspended ceiling grid installations
- The product accommodates up to 48 copper ports or up to 96 fiber splices or MTP/MPO fibers and active equipment
- Cost-effective, robust, and versatile
- Manufactured from Aluzinc with a steel network platform. The access door is finished in white powder coat
- Lockable for network equipment security
- Hydraulic, slow-release dampers fitted to each side of pull-down network equipment platform provides safe and easy access to the connectivity
- The network equipment platform includes 19” equipment mounting rails, allowing 5U of capacity including an integral cable management plate for the support of incoming and outgoing cable bundles.
- Multiple cable entry knockouts facilitate convenient cable entry and exit routes
- Grommets are supplied for the protection of cables from sharp edges at the entry and exit points
- Cable tie securing points are provided on the roof and side walls of the enclosure for efficient cable routing and slack management
- Can accommodate a fan unit for efficient cooling. Fan unit supplied separately
- Accepts the Molex PowerCat range of copper patch panels and fiber optic enclosure products
- Labor saving Molex factory pre-terminated copper and fiber cable assemblies can be deployed to minimize downtime
- UL approved for installation in Air-Handling spaces

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APPLICATION

A zone cabling architecture provides flexibility and scalability to a network cabling design. Traditional structured cabling can mean many long cable runs from the telecommunications room (TR) to each work area. This installation method operates well for very small offices but in a high churn, constantly evolving open offices, education facilities, auditoria, or multi-tenancy workplaces, it can mean hundreds of lengthy and bulky copper cables that are difficult and expensive to reconfigure.

Many organizations are now rethinking their network cabling because they want to make the most of their assets by integrating multiple services, thereby maximizing flexibility, and achieving cost savings. These services include (but are not limited to): BAS (Building Automation Systems), Smart Lighting, Data and Voice networks, Wireless (Wi-Fi), Energy Management, visual information display and digital signage, sensors and actuators, HVAC controls, etc.

The zone design concept involves a pre-planned connection point in the horizontal cable so that copper or fiber runs are routed from the TR to Zone Enclosures which then support specific work areas or zones via a raised/ access floor or ceiling. Shorter copper or fiber lengths then run from the Zone Enclosure to each work area in that zone. This restricts any changes to the cabling section between the Zone Enclosure to TO, instead of the entire length of the horizontal cabling. In addition, the zone cabling approach allows the option of installing labor-saving pre-terminated and tested trunk cables (solid copper cable or fiber cable assemblies), reducing downtime.

This approach optimizes space, provides floor level MACs and enables easier location, management and maintenance of the network cabling system. Zoned spaces provide advantages to tenants and commercial property owners by reducing labor and material costs when reconfiguring office space and maximizes asset utilization.

SPECIFICATIONS

International Standards

ISO/IEC 11801-2
ISO/IEC 11801-6
ANSI/TIA 568-0.D
ANSI-TIA 862.B

UL Listed compliance standards:
ANSI/UL 2043
ANSI/UL 2416
CAN/CSA-C22.2 No. 60950-1-07 2nd Edition

Environmental Standards

RoHS compliant
REACH compliant

Physical

Material:
Enclosure shell:
Aluzinc sheet uncoated – thickness: 1.5mm / 1/16"

Enclosure outer door:
Aluzinc sheet uncoated– thickness: 1.2mm / 1/16"
Enclosure outer door finish:
White powder coat
Network equipment platform:
Galvanized sheet steel – thickness: 2mm / 1/16"
Equipment Rails, cable management plate:
Galvanized sheet steel – thickness: 1.5mm / 1/16"

Load capacity:

35kg / 77lbs 3oz

Dimensions

596mm (L) x 596mm(W)x 317mm(H)
23” (L) x 23” (W) x 12 1/2” (H)
Maximum depth allowance for panels/active equipment: 24cm/ 9 1/4”

Shipping Weight:

30kg / 66lbs 2oz

Accessories supplied:

1 x Ceiling rod drilling template
1 x Key
4 x Cable entry grommets
3 x Filter plates

Note: The Enclosure requires 4 x M10 (3/8") ceiling rods for installation. Ceiling rods are not supplied.

Consult Molex Connected Enterprise Solutions Technical Support for installation guidance

www.molexces.com/solutions-overview/zone-cabling/

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Zone Enclosure for In-Ceiling Installations ›

ORDERING INFORMATION

Order No.	SAP No.	Description
CPT-00055	180080088	In-Ceiling Zone Enclosure

Active equipment installation

Passive installation

Fiber ModLink MTP/MPO installation

www.molexces.com/solutions-overview/zone-cabling/

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Zone Enclosure for In-Ceiling Installations ›

ORDERING INFORMATION

Order No.	SAP No.	Description
Compatible Products		
Copper		
PID-00258	180810031	Patch Panel 24P DataGate 1U Unloaded
PID-00260	180810033	Patch Panel 48P DataGate 2U Unloaded
PID-00257	182960014	Patch Panel 24P Keystone 1U Unloaded
KSJ-00096-04	183010134	PowerCat 6A DataGate Jack RJ45 568A/B Shielded Black
KSJ-00079	183010070	Keystone Jack C6A Shielded tool-less 568A/B
KSJ-00033-04	181970160	Keystone Jack C6 UTP 568A/B, Black
KSJ-00005-04	181970057	DataGate Blank, Black (Pk of 25)
KSJ-00064-04	181170008	Keystone Blank, Black (Pk of 10)
25.B016G	180320002	Cable Management Panel 5 Vertical Rings 1U
25.A029-04	180990035/ 181050065	Brush Tidy Cable Management Panel 1U
25.C001G	180330001	Cable Management Panel Metal Rings with cover
Fiber		
RFR-00201*	180370259	Specification grade 24-48 Fiber Enclosure 1U
RFR-00311-BK*	180370287	Multi-function Fiber Enclosure Gen II
Accessories		
RAA-F-1W	181030122	Fan unit 230V
RAA-00392	180150013	Fan Unit 115V (USA)
CMA-00113	180150012	Spare key (1)
CMA-00114	180140065	Cable entry grommets (Pk of 4)
CMA-00115	180140066	Spare fabric filters (Pk of 3)

DataGate Patch Panels Unloaded

DataGate Jack C6A

PowerCat C6A Pre-Terminated Cable Assemblies

Cable Management Panel

Multi-Function Fiber Enclosure

Specification Grade Fiber Enclosure

ModLink MTP/MPO cables

Fan Unit

Cable entry grommets

*For fiber adapter plates compatible with above-mentioned fiber enclosures and other fiber installation accessory part no's contact Molex or refer to https://www.molexces.com/products/fiber/

For factory pre-terminated copper cable assemblies contact Molex or refer to https://www.molexces.com/product/pcpt6asxxxxx-powercat-6a-shielded-pre-terminated-cable-assemblies/

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