

RE-2Y(St)Yv PiMF Instrumentation Cable

pairs screened, reinforced outer jacket



Technical data

- Special core insulation of PE
- **Conductor resistance**
 - 0,5 mm²: max. 39,2 Ohm/km
 - 1,3 mm²: max. 14,2 Ohm/km
- **Temperature range**
 - flexing - 5°C to +50°C
 - fixed installation -30°C to +70°C
- **Nominal voltage** max. 300 V
- **Test voltage**
 - core/core 2000 V
 - core/screen 1000 V
- **Insulation resistance** min. 5 GOhm x km
- **Mutual capacitance** (nominal value at 800 Hz)
 - core/core 0,5 mm²: 75 nF/km
 - core/core 1,3 mm²: 100 nF/km
- **Inductance** max. 0,75 mH/km
- **Cross-talk attenuation** min. 1,02 dB/km at 60 kHz
- **Minimum bending radius** approx. 7,5 x cable \varnothing

Cable structure

- Bare copper stranded wires
 - 0,5 mm² (7x0,3 mm)
 - 1,3 mm² (7x0,49 mm)
- Core insulation of PE (2Y)
- Cores colours with numbering
 - a-core black
 - b-core white
- with number print 1/1, 2/2, etc.
- Cores twisted in pairs with optimum pitch
- PiMF (pair in metal foil):
 - foil taping, drain-wire Cu-bare
 - 0,6 mm \varnothing , plastic coated alu-foil and plastic foil
- PiMFe stranded in layer,
 - 1 communication core 0,5 mm², PE-insulated orange (communication core for multicore version)
- Electrostatic screen (St) of plastics-coated metal foil and tinned drain-wire 0,5 mm² (7x0,3 mm)
- PVC outer jacket, reinforced, black or blue (RAL 5015), wall-thickness to DIN VDE 0816, col. 1
- PVC jacket self-extinguishing and flame retardant, test method B according to DIN VDE 0472 part 804 and IEC 60332-1

Application

Instrumentation cables are used in data processing and process control. The individual screening of the pairs guarantee high cross-talk attenuation. The electrostatic screen protect the screened pairs against outer electrostatic interference fields. Low level of line attenuations and low mutual capacitances enable long transmission distances and fast pulse acceleration. Instrumentation cables are suitable for fixed installations in damp locations, in open spaces and for underground laying.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

0,5 mm², jacket colour black

Part No.	No. pairs x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight* kg / km	Weight ca. kg / km	AWG-no.†)
20115	2 x 2 x 0,5	12,0	35	128	20
20116	4 x 2 x 0,5	12,7	60	170	20
21535	6 x 2 x 0,5	14,0	82	215	20
20117	8 x 2 x 0,5	14,9	121	246	20
20118	10 x 2 x 0,5	16,4	136	261	20
20119	12 x 2 x 0,5	17,6	161	351	20
20120	16 x 2 x 0,5	19,8	212	430	20
20121	20 x 2 x 0,5	21,2	262	496	20
20122	24 x 2 x 0,5	23,6	313	604	20
20123	36 x 2 x 0,5	26,9	465	850	20
20124	48 x 2 x 0,5	32,2	616	1115	20

0,5 mm², jacket colour blue

Part No.	No. pairs x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight* kg / km	Weight ca. kg / km	AWG-no.†)
21537	2 x 2 x 0,5	12,0	35	128	20
21538	4 x 2 x 0,5	12,7	60	170	20
21539	6 x 2 x 0,5	14,0	82	215	20
21540	8 x 2 x 0,5	14,9	121	246	20
21541	10 x 2 x 0,5	16,4	136	261	20
21542	12 x 2 x 0,5	17,6	161	351	20
21543	16 x 2 x 0,5	19,8	212	430	20
21544	20 x 2 x 0,5	21,2	262	496	20
21545	24 x 2 x 0,5	23,6	313	604	20
21546	36 x 2 x 0,5	26,9	465	850	20
21547	48 x 2 x 0,5	32,2	616	1115	20

1,3 mm², jacket colour black

Part No.	No. pairs x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight* kg / km	Weight ca. kg / km	AWG-no.†)
20133	2 x 2 x 1,3	12,7	68	184	-
20134	4 x 2 x 1,3	15,2	124	269	-
21536	6 x 2 x 1,3	16,7	178	370	-
20135	8 x 2 x 1,3	18,8	239	442	-
20136	12 x 2 x 1,3	21,4	353	593	-
20137	16 x 2 x 1,3	24,7	468	789	-
20138	24 x 2 x 1,3	29,4	697	1104	-

1,3 mm², jacket colour blue

Part No.	No. pairs x cross-sec. mm ²	Outer \varnothing ca. mm	Cop. weight* kg / km	Weight ca. kg / km	AWG-no.†)
21548	2 x 2 x 1,3	12,7	68	184	-
21549	4 x 2 x 1,3	15,2	124	269	-
21550	6 x 2 x 1,3	16,7	178	370	-
21551	8 x 2 x 1,3	18,8	239	442	-
21552	12 x 2 x 1,3	21,4	353	593	-
21553	16 x 2 x 1,3	24,7	468	789	-
21554	24 x 2 x 1,3	29,4	697	1104	-

†) Note

AWG sizes are approximate equivalent values.
The actual cross-section is in mm² – see page T 15.

* Including communication core and drain-wire.