

RE-2Y(St)Yv PiMF

Computer cable, reinforced outer sheath



TECHNICAL DATA

Computer cable in alignment with DIN VDE 0819-7 / DIN EN 50288-79

Temperature range	flexible -5°C to +50°C fixed -40°C to +70°C
Peak operating voltage	300 V (not for high power current installation purposes)
Test voltage core/core	2000 V
Test voltage core/screen	1000 V
Conductor resistance at 20°C	0.5 mm ² : max. 39.2 Ohm/km 1.3 mm ² : max. 14.2 Ohm/km
Mutual capacitance core/core	at 800 Hz 0.5 mm ² : approx. 75 pF/m 1.3 mm ² : approx. 100 pF/m
Crosstalk attenuation	at 60 kHz, 1.02 dB (approx. value)
Inductance	approx. 0.75 mH/km
Minimum bending radius	flexible 15x Outer-Ø fixed 7.5x Outer-Ø

■ CABLE STRUCTURE

- Copper wire bare, stranded
- Wire structure:
0.5 mm²: 7 x 0.30 mm
1.3 mm²: 7 x 0.49 mm
- Core insulation: PE
- Core identification: colour coded, Pairs: a-core = black; b-core = white with consecutive numbering 1/1, 2/2, etc.
- x = without protective conductor
- Cores stranded in pairs with optimal lay lengths
- Foil wrapping of the pairs
- Drain wire per pair, Tinned copper, Diameter: 0.6 mm
- Screening element: Pairs, plastic-coated Aluminium foil (St), approx. overlap 25%
- Pairs stranded in layers with optimal lay lengths

Sheath color: black (RAL 9005)

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
20115	2 x 2 x 0.5	20	10.5	35.0	128.0
20116	4 x 2 x 0.5	20	11.8	60.0	170.0
21535	6 x 2 x 0.5	20	13.8	82.0	215.0
20117	8 x 2 x 0.5	20	14.8	121.0	246.0
20118	10 x 2 x 0.5	20	17.1	136.0	261.0
20119	12 x 2 x 0.5	20	17.1	161.0	351.0
20120	16 x 2 x 0.5	20	19.4	212.0	430.0
20121	20 x 2 x 0.5	20	21.3	262.0	496.0
20122	24 x 2 x 0.5	20	23.0	313.0	604.0

- for multiple pair design: communication core, Nominal cross-section: 0.5 mm², Core insulation: PE, Core identification: orange
- Foil wrapping
- Drain wire, Tinned copper, stranded (0.5 mm² = 7 x 0.3 mm)
- Screen: plastic-coated Aluminium foil (St), approx. overlap 25%
- Outer sheath: PVC, reinforced (v)
- Sheath colour: see table
- Length marking: in metres

■ PROPERTIES

- for outdoor use
- direct burial
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers
- PiMF: Pair in Metal Foil
- low attenuation and operating capacities allow long transmission distances and short pulse transition times

■ TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

■ APPLICATION

Computer cables are used in data processing and process control. The individual screening of the pairs ensures good crosstalk attenuation values. When permanently installed, suitable for use in dry and damp rooms, outdoors and underground.

■ NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- copper weight including PiMF drain wires, copper stranded drain wires and communication core
- with blue sheathing for the installation of intrinsically safe systems (ignition protection type -i-) in explosion-endangered areas according to DIN VDE 0165-1 / DIN EN 60079-14 / IEC 60079-14, Section 16.2.2

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
20123	36 x 2 x 0.5	20	27.3	465.0	850.0
20124	48 x 2 x 0.5	20	31.1	616.0	1115.0
20133	2 x 2 x 1.3		12.6	68.0	184.0
20134	4 x 2 x 1.3		14.4	124.0	269.0
21536	6 x 2 x 1.3		17.0	178.0	370.0
20135	8 x 2 x 1.3		18.3	239.0	442.0
20136	12 x 2 x 1.3		21.3	353.0	593.0
20137	16 x 2 x 1.3		24.8	468.0	789.0
20138	24 x 2 x 1.3		29.6	697.0	1104.0

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Sheath color: blue (RAL 5015)

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
21537	2 x 2 x 0.5	20	10.5	35.0	128.0
21538	4 x 2 x 0.5	20	11.8	60.0	170.0
21539	6 x 2 x 0.5	20	13.8	82.0	215.0
21540	8 x 2 x 0.5	20	14.8	121.0	246.0
21541	10 x 2 x 0.5	20	17.1	136.0	261.0
21542	12 x 2 x 0.5	20	17.1	161.0	351.0
21543	16 x 2 x 0.5	20	19.4	212.0	430.0
21544	20 x 2 x 0.5	20	21.3	262.0	496.0
21545	24 x 2 x 0.5	20	23.0	313.0	604.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
21546	36 x 2 x 0.5	20	27.3	465.0	850.0
21547	48 x 2 x 0.5	20	31.1	616.0	1115.0
21548	2 x 2 x 1.3		12.6	68.0	184.0
21549	4 x 2 x 1.3		14.4	124.0	269.0
21550	6 x 2 x 1.3		17.0	178.0	370.0
21551	8 x 2 x 1.3		18.3	239.0	442.0
21552	12 x 2 x 1.3		21.3	353.0	593.0
21553	16 x 2 x 1.3		24.8	468.0	789.0
21554	24 x 2 x 1.3		29.6	697.0	1104.0