UNITRONIC® RE-2Y(ST)Yv PiMF

Instrumentation cable with reinforced outer sheath and pairs in metalfoil

RE-2Y(ST)Yv PiMF: PVC computer data cables, 7 wires, Low capacitance PiMF/ Pairs in metal foil, Screened/ Static Foil, PVC jacket Black or blue, Flame retardant

Info
CPR: Article number choice under www.lappkabel.com/cpr





Interference signals

Benefits
Aluminium-laminated plastic foil static screen with tin-plated drain wire minimises the interference of high frequency, electromagnetic fields
Decoupling of circuits by means of
twisted-pair (TP) design (crosstalk effects)
Low capacitance due to polyolefin-based insulation

Application range
In measurement and control engineering
Electrically intended for use when modern process computers have to process large volumes of data, e.g. high-capacity computer systems in waste incineration plants or sewage treatment plants
These cables are suitable for fixed installation in dry or damp rooms and, in case of versions with a black outer sheath, also for outdoor use
Thanks to reinforced, nominal/ minimum average wall thickness of the outer sheath of at least 1.8 mm, for applications, where a reinforced outer sheath may turn out to be advantageous.

Product features
Computer cable with screened pairs and reinforced outer sheath
Outer sheath colour:
black for outdoor applications or
blue for intrinsically safe systems
Flame-retardant according IEC 60332-1-2

Norm references / Approvals
In the style of EN 50288-7

Product Make-up
7-wire bare stranded copper conductor,
core insulation made of polyethylene (PE),
cores twisted into pairs,
pair screening made of aluminium-laminated plastic foil with bare copper drain wire,
PiMF marking using numbered foil,
pairs stranded in layers
Complete stranding contains 1 core for communication (core colour orange);

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the communication core is omitted on single-pair versions
Aluminium-laminated plastic foil static screen with tinned drain wire
Reinforced outer sheath made of PVC
Outer sheath colour: black (RAL 9005)
or blue (RAL 5015)

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control cable
Core identification code:	a-core: black; b-core: white with consecutive numbers: 1-1, 2-2, 3-3, 4-4 etc.
Mutual capacitance:	(at 800 Hz max): C/C: 0.5 mm^2: 75 nF/km (at 800 Hz max): C/C: 1.3 mm^2: 100 nF/km
Inductivity:	max. 0.75 mH/km
Conductor resistance:	0.5 mm^2: max. 39.2 ohm/km 1.3 mm^2: max. 14.2 ohm/km
Minimum bending radius:	Occasional flexing: 15 x outer diameter Fixed installation: 7.5 x outer diameter
Short-range crosstalk attenuation:	At 60 kHz: min. 1.02 dB/km
Test voltage:	Core/core: 2000 V Core/screen: 600 V
Characteristic impedance:	approx. 100 ohms
Temperature range:	Occasional flexing: -5 °C to +50 °C Fixed installation: -40 °C to +80 °C

Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.

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PRODUCT INFORMATION

Article number	Dimension and cross section in mm2	Outer diameter [mm]	Copper index [kg/km]	Weight [kg/km]
RE-2Y(ST)Yv PiMF 0.5 mm² blue				
0032438	2.0 x 2.0 x 0.5	10.5	35	128
0032442	12.0 x 2.0 x 0.5	16.9	161	325
0.5 mm² black				
0032448	2.0 x 2.0 x 0.5	10.5	35	128
0032449	4.0 x 2.0 x 0.5	11.6	60	170
0032450	8.0 x 2.0 x 0.5	14.6	121	261
0032451	10.0 x 2.0 x 0.5	16.5	136	285
0032453	16.0 x 2.0 x 0.5	19.1	212	430
1.3 mm² blue				
0032458	2.0 x 2.0 x 1.3	12.4	68	184
1.3 mm² black				
0032464	2.0 x 2.0 x 1.3	12.4	68	184
0032465	4.0 x 2.0 x 1.3	14.2	124	269
0032466	8.0 x 2.0 x 1.3	17.7	239	442
0032467	12.0 x 2.0 x 1.3	22	353	593

Last Update (05.09.2026)
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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
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