

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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Product Management www.lappkabel.de

You can find the current technical data in the corresponding data sheet.

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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.

UNITRONIC® RE-2Y(ST)Yv PIMF

Article number	Dimension and cross section in mm ²	Outer diameter [mm]	Copper index [kg/km]	Weight [kg/km]
RE-2Y(ST)Yv PIMF 0.5 mm ² 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 mm ² 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 mm ² blue				
0032458	2.0 x 2.0 x 1.3	12.4	68	184
1.3 mm ² 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

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