

## 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](http://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);

Last Update (12.12.2022)

©2022 Lapp Group - Technical changes reserved

Product Management [www.lappkabel.de](http://www.lappkabel.de)

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

PN 0456 / 02\_03.16

## UNITRONIC® RE-2Y(ST)Yv PiMF

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 <sup>2</sup> : 75 nF/km (at 800 Hz max): C/C: 1.3 mm <sup>2</sup> : 100 nF/km
Inductivity:	max. 0.75 mH/km
Conductor resistance:	0.5 mm <sup>2</sup> : max. 39.2 ohm/km 1.3 mm <sup>2</sup> : 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](http://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 <sup>2</sup>	Outer diameter [mm]	Copper index [kg/km]	Weight [kg/km]
RE-2Y(ST)Yv PiMF 0.5 mm <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> blue				
0032458	2.0 x 2.0 x 1.3	12.4	68	184
1.3 mm <sup>2</sup> 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 (12.12.2022)

©2022 Lapp Group - Technical changes reserved

 Product Management [www.lappkabel.de](http://www.lappkabel.de)

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

PN 0456 / 02\_03\_16