# 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<br>ETIM 5.0 Class-Description: Control cable |
| Classification ETIM 6: | ETIM 6.0 Class-ID: EC000104<br>ETIM 6.0 Class-Description: Control cable |
| Core identification code: | a-core: black; b-core: white<br>with consecutive numbers:<br>1-1, 2-2, 3-3, 4-4 etc. |
| Mutual capacitance: | (at 800 Hz max):<br>C/C: 0.5 $mm^2$: 75 nF/km<br>(at 800 Hz max):<br>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<br>1.3 $mm^2$: max. 14.2 ohm/km |
| Minimum bending radius: | Occasional flexing: 15 x outer diameter<br>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<br>Core/screen: 600 V |
| Characteristic impedance: | approx. 100 ohms |
| Temperature range: | Occasional flexing: -5 °C to +50 °C<br>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<br>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 (04.09.2026)
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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16