Instrumentation cable with reinforced outer sheath and pairs in metalfoil
Aluminium-laminated plastic foil static screen with tin-plated drain wire minimises the interference of high frequency, electromagnetic field
Twisted pair (TP) decouples the cable circuits

RoHS

Application range

RE-2Y(ST)Y PiMF is 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 the version with a black outer sheath can also be used outdoors or for direct burial.

Design

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 in layers and 1 core for communication (core colour: orange)
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

Product features

Computer cable with screened pairs and reinforced outer sheath
Colour: black (based on RAL 9005) or blue for intrinsically safe systems (based on RAL 5015)
Flame-retardant according to IEC 60332-1-2
Printed text may differ from illustration

Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100kg. Refer to 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 are not to scale and do not represent detailed images of the respective products.

Technical Data

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 mm²: 75 nF/km (at 800 Hz max): C/C: 1.3 mm²: 100 nF/km
Peak operating voltage:	(not for power applications) 300 V
Inductivity:	max. 0.75 mH/km
Insulation resistance:	> 5 GOhm x km
Conductor resistance:	0.5 mm²: max. 39.2 ohm/km 1.3 mm²: max. 14.2 ohm/km
Minimum bending radius:	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
Temperature range:	Fixed installation: -40°C to +70°C Occasional flexing: -5°C to +50°C
Characteristic impedance:	approx. 100 ohms

Part number	Number of pairs and mm² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
RE-2Y(ST)Yv PiMF 0.5 mm² blue				
0032438	2 x 2 x 0,5	10.0	35.0	128
0032439	4 x 2 x 0,5	11.6	60.0	170
0032441	10 x 2 x 0,5	15.9	136.0	246
0032442	12 x 2 x 0,5	16.7	161.0	351
0032443	16 x 2 x 0,5	19.1	212.0	430
0032444	20 x 2 x 0,5	19.9	262.0	496
0032446	36 x 2 x 0,5	25.5	465.0	850
0.5 mm² black				
0032448	2 x 2 x 0,5	10.0	35.0	128
0032449	4 x 2 x 0,5	11.6	60.0	170
0032450	8 x 2 x 0,5	14.4	121.0	261
0032451	10 x 2 x 0,5	15.9	136.0	246
0032452	12 x 2 x 0,5	16.7	161.0	351
0032453	16 x 2 x 0,5	19.1	212.0	430
0032456	36 x 2 x 0,5	25.5	465.0	850
1.3 mm² blue				
0032458	2 x 2 x 1,3	12.4	68.0	184
1.3 mm² black				
0032464	2 x 2 x 1,3	12.4	68.0	184
0032465	4 x 2 x 1,3	14.2	124.0	269
0032466	8 x 2 x 1,3	18.5	239.0	442
0032467	12 x 2 x 1,3	22.2	353.0	593
0032469	24 x 2 x 1,3	29.0	697.0	1104