UNITRONIC® Li2YCY PiMF

Screened data transmission cable with PE core insulation and pairs in metalfoil

UNITRONIC® Li2YCY PiMF: Low-frequency low-capacitance screened PVC data cable with DIN 47100 coded PE core Pairs in Metal Foil, RS422/ RS485 interface wiring

Info
Metal foil screened pairs



Interference signals

Benefits
Data transmission cable with low capacitance, pair screening and overall copper braiding
Particularly suitable for wiring data systems and controls in large industrial plants
Individually screened pairs and the overall braid minimise electrical interference
Decoupling of circuits by means of
twisted-pair (TP) design (crosstalk effects)

Application range
For enhanced requirements in near-end cross-talk attenuation and high electrical interference in the circuits
Suitable for the transmission with varying in frequency and voltage or sensitive signals
Can be used multifunctional in electronics of computer systems, electronic control equipment, office machines, balances, etc.
For measurement value transmission and serial 2-wire interfaces
Intended for limited flexible use, and for fixed installation in dry or damp interiors

Product features
Flame-retardant according IEC 60332-1-2

Product Make-up
7-wire or fine-wire (from 1 mm^2) strands made of bare copper wires
Core insulation made of polyethylene (PE)
Cores twisted into pairs

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You can find the current technical data in the corresponding data sheet.
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Foil wrapping, static screening made of aluminium-laminated plastic film with copper drain wire for each pair
Bare copper screen braiding
Outer sheath made of PVC
Outer sheath colour: grey (similar to pebble grey/ RAL 7032)

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:	0.22 mm^2-0.5 mm^2: according to DIN 47100, see table T9 1.0 mm^2: a-core: white, b-core: black
Mutual capacitance:	At 800 Hz: 0.22 mm^2: max. 70 nF/km 0.34 mm^2: max. 70 nF/km 0.5 mm^2: max. 75 nF/km 1.0 mm^2: max. 85 nF/km
Inductivity:	Approx. 0.4 mH/km
Conductor stranding:	Stranded conductor, based on VDE 0881, 7-wire
Minimum bending radius:	Occasional flexing: 20 x outer diameter Fixed installation: 10 x outer diameter
Test voltage:	Core/core: 2000 V Core/screen: 1000 V
Characteristic impedance:	approx. 85 Ohm (> 1 MHz)
Temperature range:	Occasional flexing: -5 °C to +70 °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).
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Article number	Number of pairs and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® Li2YCY PiMF 7-wire				
0034040	2 x 2 x 0.22	7.7	33	75.4
0034041	3 x 2 x 0.22	8.1	42	86
0034042	4 x 2 x 0.22	8.7	50	99
0034043	8 x 2 x 0.22	10.9	85	161.4
0034044	10 x 2 x 0.22	12	100	186.4
0034045	2 x 2 x 0.34	9	43	70
0034046	3 x 2 x 0.34	9.4	55	85
0034047	4 x 2 x 0.34	9.8	64	103
0034048	8 x 2 x 0.34	12.9	127	191
0034060	2 x 2 x 0.5	9.9	51	96
0034061	3 x 2 x 0.5	10.4	66	116
0034062	4 x 2 x 0.5	11.3	71	141
0034063	5 x 2 x 0.5	11.8	92	180
0034064	8 x 2 x 0.5	14.5	153	271
0034065	10 x 2 x 0.5	16.6	182	327
Fine wire				
0034070	2 x 2 x 1	11.7	82	126
0034071	3 x 2 x 1	11.8	109	196
0034072	4 x 2 x 1	12.7	133	193
0034073	10 x 2 x 1	19.7	326	492

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