


U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>UNITRONIC® Li2YCY PiMF</b>	<b>29.11.2013</b>

Screened data transmission cable with PE core insulation and pairs in metalfoil  
 Data transmission cable with low capacitance, pair screening and overall copper braiding  
 Particularly suitable for wiring data systems and controls in large industrial plants  
 7-wire stranded conductor can be used for Maxi TERMI-POINT® wiring  
 Individually screened pairs and the overall braid minimise electrical interference  
 Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)



Interference signals

#### Info

Metal foil screened pairs

#### 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

#### Design

7-wire or fine wire (1mm<sup>2</sup>) tinned stranded copper conductor  
 Core insulation made of polyethylene (PE)  
 Cores twisted into pairs  
 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: pebble grey (RAL 7032)

#### Product features

Flame-retardant according IEC 60332-1-2

#### 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 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).

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Photographs are not to scale and do not represent detailed images of the respective products.

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### Technical Data

Core identification code:	0.22 mm <sup>2</sup> -0.5 mm <sup>2</sup> : according to DIN 47100, see table T9 1.0 mm <sup>2</sup> : a-core: white, b-core: black
Mutual capacitance:	At 800 Hz: 0.22 mm <sup>2</sup> : max. 70 nF/km 0.34 mm <sup>2</sup> : max. 70 nF/km 0.5 mm <sup>2</sup> : max. 75 nF/km 1.0 mm <sup>2</sup> : max. 85 nF/km
Peak operating voltage:	(not for power applications) 250 V
Inductivity:	Approx. 0.4 mH/km
Insulation resistance:	> 5 GOhm x 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
Temperature range:	Occasional flexing: -5°C to +70°C Fixed installation: -40°C to +80°C
Characteristic impedance:	approx. 85 Ohm (> 1 MHz)

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Part number	Number of pairs and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® Li2YCY PIMF7-wire				
0034040	2 x 2 x 0,22	7.7	33.0	75.4
0034041	3 x 2 x 0,22	8.1	42.0	86
0034042	4 x 2 x 0,22	8.7	50.0	99
0034043	8 x 2 x 0,22	10.9	85.0	161.4
0034044	10 x 2 x 0,22	12.5	100.0	186.4
0034045	2 x 2 x 0,34	9.0	43.0	70
0034046	3 x 2 x 0,34	9.4	55.0	85
0034047	4 x 2 x 0,34	9.8	64.0	103
0034048	8 x 2 x 0,34	12.9	127.0	191
0034049	10 x 2 x 0,34	14.9	150.0	230
7-wire				
0034060	2 x 2 x 0,5	8.5	51.0	96
0034061	3 x 2 x 0,5	10.4	66.0	116
0034062	4 x 2 x 0,5	11.3	71.0	141
0034063	5 x 2 x 0,5	11.8	92.0	180
0034064	8 x 2 x 0,5	14.5	153.0	271
0034065	10 x 2 x 0,5	16.6	182.0	327
Fine wire				
0034070	2 x 2 x 1	9.9	82.0	126
0034071	3 x 2 x 1	11.8	109.0	156
0034072	4 x 2 x 1	12.7	133.0	193
0034073	10 x 2 x 1	19.7	326.0	492