



## UNITRONIC® Li2YCY PiMF

Screened data transmission cable with PE core insulation and pairs in metal foil



Info

- Metal foil screened pairs

### 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



**Insulation resistance**

> 5 GOhm x 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



**Temperature range**

Occasional flexing: -5°C to +70°C  
Fixed installation: -40°C to +80°C



**Characteristic impedance**

approx. 85 Ohm (> 1 MHz)

### 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
- 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)

### 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 (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)

Article number	Number of pairs and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>UNITRONIC® Li2YCY PiMF</b>				
<b>7-wire</b>				
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
<b>7-wire</b>				
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
<b>Fine wire</b>				
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

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.

### Similar products

- RE-2Y(ST)Yv PiMF refer to page 277

### Accessories

- SKINTOP® MS-SC-M refer to page 674
- STAR STRIP stripping tool refer to page 910
- KS 20 cable shears refer to page 908