


U.I. Lapp GmbH	PRODUCT INFORMATION	
	UNITRONIC® LiYY (TP)	05.11.2015

Data transmission cable with colour code acc. to DIN 47100 and twisted pairs
Decoupling of circuits by means of
twisted-pair (TP) design (crosstalk effects)



Info

TP = twisted pair

Application range

Electronic devices tend to leave little room for installing cables, meaning short travel distances and small bending radii are required. This cable ideally meets these requirements.

Dry or damp rooms

Product Make-up

Fine-wire strand made of bare copper wires

Core insulation made of PVC

TP structure

Outer sheath made of PVC

Outer sheath colour: pebble grey (RAL 7032)

Norm references / Approvals

Based on VDE 0812

Product features

Twisted in pairs to reduce decoupling. As a result, additional screening is often not required.

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 150/100 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 \leq 30 kg or \leq 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.

Product Management	Document: LAPP_PRO218EN.pdf	1 / 3
--------------------	-----------------------------	-------

U.I. Lapp GmbH	PRODUCT INFORMATION	 LAPP GROUP
UNITRONIC® LiYY (TP)		05.11.2015

Technical Data

Core identification code:	DIN 47100, refer to Appendix T9
Mutual capacitance:	Approx. 120 nF/km
Peak operating voltage:	(not for power applications) at 0.14 mm ² : 350 V at ≥ 0.25 mm ² : 500 V
Classification:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Inductivity:	approx. 0.65 mH/km
Conductor stranding:	Fine copper wire strands
Minimum bending radius:	Occasional flexing: 10 x outer diameter Fixed installation: 4 x Outer diameter
Test voltage:	At 0.14 mm ² : 1200 V
Temperature range:	Occasional flexing: -5 °C to +70 °C Fixed installation: -40 °C to +80 °C

Product Management	Document: LAPP_PRO218EN.pdf	2 / 3
--------------------	-----------------------------	-------

Part number	Number of pairs and conductor cross section (mm ²)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® LiYY (TP)				
0035101	2 x 2 x 0,14	4.8	5.4	25.5
0035102	3 x 2 x 0,14	4.9	8.0	32
0035103	4 x 2 x 0,14	5.5	10.7	38.5
0035104	5 x 2 x 0,14	5.7	13.4	45.5
0035105	6 x 2 x 0,14	6.2	16.1	51
0035108	10 x 2 x 0,14	8.0	26.9	77.5
0035110	12 x 2 x 0,14	8.2	32.3	94.5
0035113	16 x 2 x 0,14	9.1	43.0	110.5
0035160	2 x 2 x 0,25	6.1	9.6	38
0035161	3 x 2 x 0,25	6.2	14.4	48
0035162	4 x 2 x 0,25	6.9	19.2	59
0035163	6 x 2 x 0,25	7.8	28.8	80
0035164	8 x 2 x 0,25	9.2	38.4	98
0035170	2 x 2 x 0,5	7.9	19.2	72
0035171	3 x 2 x 0,5	8.0	28.8	83
0035172	4 x 2 x 0,5	8.7	38.4	115
0035174	8 x 2 x 0,5	12.2	76.8	206
0035175	10 x 2 x 0,5	13.2	96.0	247