


U.I. Lapp GmbH	PRODUCT INFORMATION	
	UNITRONIC® FD	07.11.2014

Highly flexible data transmission cable with PVC outer sheath for power chain use
Well-proven and reliable
Optimized cable construction for power chain use
Cost-effective solution



Power chain

Application range

Automated production processes require data transmission cables that offer high flexibility and durability
Suitable for use in measuring, control and regulating circuits
Assembly lines, production lines, in all kinds of machines

Product Make-up

Extra-fine wire strand made of bare copper wires
Core insulation made of PVC
Non-woven wrapping
Outer sheath made of PVC
Outer sheath colour: grey (RAL 7001)

Norm references / Approvals

Based on VDE 0812
For travel distances up to 10 m.
For use in power chains: Please comply with the assembly guidelines listed in Appendix T3


Product features

Low-adhesive surface
Flame-retardant according IEC 60332-1-2
Designed for 2 up to 8 million bending/unbending cycles in power chain applications

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 ≤ 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.

Product Management	Document: LAPP_PRO237EN.pdf	1 / 3
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Technical Data

Core identification code:	DIN 47100, refer to Appendix T9
Mutual capacitance:	C/C: approx. 100 nF/km
Peak operating voltage:	(not for power applications) 350 V
Classification:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Inductivity:	approx. 0.65 mH/km
Conductor stranding:	Stranded, extra-fine wire
Minimum bending radius:	Flexing: 5 x outer diameter Fixed installation: 3 x outer diameter
Test voltage:	1500 V
Temperature range:	Flexing: -5°C to +70°C Fixed installation: -40°C to +80°C

Product Management	Document: LAPP_PRO237EN.pdf	2 / 3
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Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
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0027841	3 x 0,14	3.9	4.2	26
0027842	4 x 0,14	4.2	5.6	31
0027843	5 x 0,14	4.5	7.0	35
0027844	7 x 0,14	5.1	9.8	50
0027845	10 x 0,14	6.1	14.0	63
0027846	14 x 0,14	6.2	19.6	77
0027847	18 x 0,14	6.8	25.2	91
0027848	25 x 0,14	8.3	35.0	125
0027855	2 x 0,25	4.3	5.0	27
0027856	3 x 0,25	4.5	7.5	33
0027857	4 x 0,25	4.9	10.0	40
0027858	5 x 0,25	5.3	12.5	51
0027859	7 x 0,25	6.1	17.5	51
0027860	10 x 0,25	7.4	25.0	84
0027861	14 x 0,25	7.5	35.0	108
0027863	18 x 0,25	8.5	45.0	130
0027865	25 x 0,25	10.4	62.5	178
0027870	2 x 0,34	4.7	6.8	30
0027871	3 x 0,34	5.0	10.2	43
0027872	4 x 0,34	5.4	13.6	57
0027873	5 x 0,34	5.9	17.0	65
0027874	7 x 0,34	6.8	23.8	85
0027875	10 x 0,34	8.5	34.0	117
0027876	14 x 0,34	8.6	47.6	151
0027877	18 x 0,34	9.7	61.2	182
0027878	25 x 0,34	11.9	85.0	250