


U.I. Lapp GmbH	PRODUCT INFORMATION	
	UNITRONIC® FD	12.09.2012

Highly flexible data transmission cable with PVC outer sheath for power chain use
Optimized cable construction for power chain use



Application range

Automated production processes require data transmission cables that offer high flexibility and durability
UNITRONIC® FD series cables are specially designed for power chain use

Design

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

Product features

The PVC outer sheath prevents adhesion to other cables in the power chain
Flame-retardant according to IEC 60332-1-2
Please follow the installation guidelines in Appendix T3.

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 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.

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
Inductivity:	approx. 0.65 mH/km
Based on:	VDE 0812
Specific insulation resistance:	> 20 GOhm x cm
Conductor stranding:	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6
Minimum bending radius:	For flexible use: 5 x outer diameter
Test voltage:	1500 V
Temperature range:	Fixed installation: -40°C to +70°C Flexing: -5°C to +70°C

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Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® FD				
0027841	3 x 0,14	4.1	4.2	26
0027842	4 x 0,14	4.4	5.6	31
0027843	5 x 0,14	4.7	7.0	35
0027844	7 x 0,14	5.4	9.8	50
0027845	10 x 0,14	6.4	14.0	63
0027846	14 x 0,14	6.5	19.6	77
0027847	18 x 0,14	7.1	25.2	91
0027848	25 x 0,14	8.6	35.0	125
0027855	2 x 0,25	4.6	5.0	27
0027856	3 x 0,25	4.7	7.5	33
0027857	4 x 0,25	5.1	10.0	40
0027858	5 x 0,25	5.6	12.5	51
0027859	7 x 0,25	6.4	17.5	51
0027860	10 x 0,25	7.7	25.0	84
0027861	14 x 0,25	7.8	35.0	108
0027863	18 x 0,25	8.8	45.0	130
0027865	25 x 0,25	10.8	62.5	178
0027870	2 x 0,34	4.9	6.8	30
0027871	3 x 0,34	5.2	10.2	43
0027872	4 x 0,34	5.7	13.6	57
0027873	5 x 0,34	6.2	17.0	65
0027874	7 x 0,34	7.1	23.8	85
0027875	10 x 0,34	8.8	34.0	117
0027876	14 x 0,34	8.9	47.6	151
0027877	18 x 0,34	10.0	61.2	182
0027878	25 x 0,34	12.3	85.0	250