




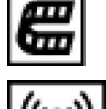





U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>UNITRONIC® FD CP plus</b>	14.11.2013

Screened highly flexible data transmission cable with PUR outer sheath - UL/CSA-listed  
 Wide temperature range for applications in harsh climatic environments  
 Ideal for export-oriented machinery and equipment manufacturers  
 Optimized cable construction for power chain use  
 Overall braid minimises electrical interference



-  Halogen-free
-  Cold-resistant
-  Mechanical resistance
-  Oil-resistant
-  Power chain
-  Interference signals
-  Torsion-resistant
-  Wind Energy


**Info**

Flexible at low temperatures  
 Low capacitance  
 Halogen-free

**Application range**

Multifunctional-use, e.g. for packaging industry and storage and retrieval units  
 Suitable for use in measuring, control and regulating circuits  
 In power chains or moving machine parts  
 For the North American market  
 Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

Product Management	Document: LAPP_PRO240EN.pdf	1 / 3
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### Design

Extra-fine wire strand made of bare copper wires  
Core insulation: Based on Polyolefin  
Tinned-copper braiding  
Non-woven wrapping  
Outer sheath made of special PUR compound  
Outer sheath colour: grey (RAL 7001)

### Norm references / Approvals

Approval: UL/CSA type CMX in accordance with UL 444 and CSA C22.2 no. 214  
For travel distances up to 100 m (horizontal)  
For use in power chains: Please comply with the assembly guidelines listed in Appendix T3

### Product features

Halogen-free, has low capacitance and is flexible down to -40 °C  
PUR outer sheath, tear and notch-resistant, resistant to mineral oils and abrasion when used in power chains  
Low-adhesive surface, resistant to hydrolysis and microbes, oil resistant  
Flame-retardant according to IEC 60332-1-2 and VW-1 acc. to UL-1581  
Designed for 5 up to 10 million bending/unbending cycles in the power chain.

### 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).  
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. 60 nF/km
Peak operating voltage:	(not for power applications) 250 V
Inductivity:	approx. 0.65 mH/km
Specific insulation resistance:	> 5 GOhm x km
Conductor stranding:	Stranded, extra-fine wire
Torsion movement in WTG:	TW-0 & TW-2, refer to Appendix T0
Minimum bending radius:	Flexing: 7.5 x outer diameter Fixed installation: 4 x outer diameter
Test voltage:	Core/core: 1500 V rms Core/screen: 500 V
Temperature range:	Flexing: -40 °C to +80 °C Fixed installation: -40 °C to +80 °C UL/CSA: up to +75 °C

Product Management	Document: LAPP_PRO240EN.pdf	2 / 3
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## UNITRONIC® FD CP plus

14.11.2013

Part number	Number of cores and mm <sup>2</sup> per conductor	AWG size	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® FD CP plus					
0028880	2 x 0,14	26 AWG	4.3	11.2	33
0028881	3 x 0,14	26 AWG	4.5	14.1	36
0028882	4 x 0,14	26 AWG	4.8	15.5	40
0028883	5 x 0,14	26 AWG	5.1	18.3	45
0028884	7 x 0,14	26 AWG	5.7	27.8	67
0028885	10 x 0,14	26 AWG	6.7	39.3	87
0028886	14 x 0,14	26 AWG	6.8	45.3	102
0028887	18 x 0,14	26 AWG	7.4	54.1	118
0028888	25 x 0,14	26 AWG	8.9	68.4	157
0028889	2 x 0,25	24 AWG	4.9	14.9	38
0028890	3 x 0,25	24 AWG	5.1	18.8	45
0028891	4 x 0,25	24 AWG	5.5	21.3	52
0028892	5 x 0,25	24 AWG	5.9	31.0	69
0028893	7 x 0,25	24 AWG	6.7	39.6	84
0028894	10 x 0,25	24 AWG	8.2	53.9	109
0028895	14 x 0,25	24 AWG	8.3	64.2	136
0028896	18 x 0,25	24 AWG	9.1	78.4	161
0028897	25 x 0,25	24 AWG	11.0	101.0	213
0028898	2 x 0,34	22 AWG	5.3	18.1	45
0028899	3 x 0,34	22 AWG	5.6	28.7	61
0028900	4 x 0,34	22 AWG	6.0	35.7	77
0028901	5 x 0,34	22 AWG	6.5	39.1	83
0028902	7 x 0,34	22 AWG	7.4	52.7	109
0028903	10 x 0,34	22 AWG	9.1	67.4	147
0028904	14 x 0,34	22 AWG	9.2	85.8	186
0028905	18 x 0,34	22 AWG	10.3	99.7	216
0028906	25 x 0,34	22 AWG	12.5	155.0	314