



UNITRONIC® FD CP plus

Screened highly flexible data transmission cable with PUR outer sheath - UL/CSA-listed

Info

- Flexible at low temperatures
- Low capacitance
- Halogen-free

LAPP KABEL STUTTGART UNITRONIC® FD CP plus



Benefits

- 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

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 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.

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 make-up

- 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)

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
- Specific insulation resistance**
> 5 GOhm x km
- Inductivity**
approx. 0.65 mH/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

Article number	Number of cores and mm ² 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

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

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.

Similar products

- UNITRONIC® FD CP (TP) plus refer to page 274

Accessories

- SKINTOP® MS-SC-M refer to page 674
- SILVYN® CHAIN
- STAR STRIP stripping tool refer to page 910