UNITRONIC® FD CP (TP) plus





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

Wide temperature range for applications in harsh climatic environments; Optimized cable construction for power chain use; Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects); Overall braid minimises electrical interference

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





















Product description

Application range

- In power chains or moving machine parts
- · Suitable for use in measuring, control and regulating circuits
- · Linear robots, automated handling equipment
- For the North American market
- Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)

Benefits

- Wide temperature range for applications in harsh climatic environments
- Optimized cable construction for power chain use

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- · Decoupling of circuits by means of twisted-pair (TP) design (crosstalk effects)
- · Overall braid minimises electrical interference

Product Make-up

- · Extra-fine wire strand made of bare copper wires
- · Core insulation: Based on Polyolefin TP structure
- · Non-woven wrapping
- Tinned-copper braiding
- · 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 horizontal travel distances up to 100m
- 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
- · 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

Technical Data

Core identification code DIN 47100, refer to Appendix T9 Up to 0.5 mm²: 60 nF/km Mutual capacitance Up to 1.0 mm²: 70 nF/km

Peak operating voltage (not for power applications) 250 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

From 0.5 mm²: extra-fine wire according to IEC 60228

class 6

Torsion movement in WTG TW-0 & TW-2, refer to Appendix T0 Flexing: 7.5 x outer diameter Minimum bending radius

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