

CONTACT

Market information
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Flexible shielded PUR data transmission cables with UL approval

UL type CMX according to UL 444

STANDARDS

Produkt UL 444

Application

The cable WINDLINK® Data flexible C-PUR was specifically designed for wind turbines. These cable is used for data transmission where high flexibility and oil resistance are required. It is therefore a suitable connection for electrical panels and sensors.

Product characteristics

- Vibration resistant
- Flame retardant according to IEC 60332-1-2
- Minimum bending radius during installation
 - without load $\geq 5 \times D$
 - with load $\geq 10 \times D$
- Operating temperature acc. to
 - Nexans spec.: -40°C up to $+90^{\circ}\text{C}$
 - UL CMX: -40°C up to $+75^{\circ}\text{C}$
- Oil resistant according to EN 60811-2-1
- Halogen free according to IEC 60754
- UV resistant according to IEC 60068-2-5
- Ozone resistant according to EN 60811-2-1 clause 8

Approval

- UL 444

Design**Conductor**

Bare copper stranded

Insulation

Halogen free compound

Core indication: colour code according to DIN 47100

Assembly

Conductors twisted in layers + polyester tape + Aluminium/polyester tape (Aluminium outside)

Drain wire

Tinned copper

Shield

Tinned copper braid, coverage $\geq 80\%$ + non woven tape

Sheath

PUR compound, colour black Ral 9005

CHARACTERISTICS

Konstruktionsmerkmale

Leitermaterial	-
Isolierung	-
Isolationsfarbe	-
Verseilung	-
Schirm	-
Außenmantel	-
Innenmantel	-
Leitungsaufbau	2 x 0.34

Abmessungsmerkmale

Conductor diameter (mm)	-
Insulation sheath thickness	- mm
Wanddicke des Innenmantels	- mm
Wanddicke Außenmantel, Nennwert	- mm
Durchmesser über Geflecht	- mm
Max. Kabeldurchmesser	- mm
Min. Kabeldurchmesser	- mm
Nettogewicht ca.	35 kg/km
Außendurchmesser, nom.	5,0 mm
Kupferzahl	20 kg/km

Elektrische Eigenschaften

Rated Voltage U ₀ /U	300/500 V
Innenleiterwiderstand (DC)	- Ohm/km
Elektrischer Widerstand AC 60Hz 70°C, maximum	- Ohm/km
Elektrischer Widerstand AC 60Hz 90°C, maximum	- Ohm/km
Max. Kopplungswiderstand bei 10MHz	10 mOhm/m
Induktiver Blindwiderstand	- Ohm/km
Betriebskapazität	- mF/km
Kurzschlussstrom	- kA
Minimaler Isolationswiderstand	100 MOhm.km
Operating voltage - range	- kV
Prüfspannung AC bei 50Hz Ader/Ader	1500 V
Kopplungswiderstand	-
Maximum operating voltage	-
Prüfspannung AC bei 50Hz Ader/Schirm	1500 V

Mechanische Eigenschaften

Reißfestigkeit	- N
Max. Zuglast	- N
Torsion stress	- °/m
Maximum Tensile Strength Conductor	- kN

Anwendungsmerkmale

Korrosivität der (Brand-)Gase	-
Feuerbeständig	-

Anwendungsmerkmale

Flammwidrig	-
Ölbeständig	-
UV Beständigkeit	-
Ozonbeständigkeit	-
Max. Betriebstemperatur am Leiter	70 °C
Max. Kurzschlussstemperatur am Leiter	- °C
Umgebungstemperatur, Bereich	- °C
Betriebstemperatur	-40 ... 75 °C

COMPLEMENTARY TECHNICAL DATA FOR WINDLINK® DATA FLEXIBLE C-PUR

Electrical Properties

	0.34 mm ²	0.50 mm ²
Max. conductors resistance at 20°C [Ω.Km]	58	39
Max. DC resistance of overall screen [Ω/Km]	15.5	10.0

SELLING AND DELIVERY INFORMATION

Marking e.g.

NEXANS INTERCOND - Week/Year of production - WINDLINK Li-9Y(St)C11Y n x yy mm²/AWG size - E222606 (UL)
CMX 75°C - shielded data cable

n: number of conductors

yy: section of conductor

Meter marking