WINDLINK® Data flexible C-PUR - UL

Li9Y(St)C11Y 6x0.34/22AWG

CONTACT

Market information
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Flexible shielded PUR data transmission cables with UL approval

UL type CMX according to UL 444

STANDARDS

Product 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 ≥ 5 x D
  - with load ≥ 10 x D
- Operating temperature acc. to
  - Nexans spec.: -40°C up to +90°C
  - UL CMX: -40°C up to +75°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 indification: 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 ≥ 80% + non woven tape

Sheath
PUR compound, colour black Ral 9005

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CHARACTERISTICS

Construction characteristics	
Conductor material	-
Insulation	-
Insulation colour	-
Lay Up	-
Screen	-
Outer sheath	-
Inner sheath	-
Construction type	6 x 0.34
Dimensional characteristics	
Conductor diameter (mm)	-
Insulation sheath thickness	- mm
Inner sheath thickness	- mm
Nominal outer sheath thickness	- mm
Diameter over braid	- mm
Maximum cable diameter	- mm
Minimum cable diameter	- mm
Approximate weight	67 kg/km
Nominal outer diameter	6.2 mm
Copper content	41.5 kg/km
Electrical characteristics	
Rated Voltage Uo/U	300/500 V
Resistance of inner conductor (DC)	- Ohm/km
Max. Electrical Resistance AC 60Hz 70°C	- Ohm/km
Max. Electrical Resistance AC 60Hz 90°C	- Ohm/km
Max. transfer impedance at 10MHz	10 mOhm/m
Inductive reactance	- Ohm/km
Operating capacitances	- mF/km
Minimum insulation resistance	100 MOhm.km
Permissible short circuit current	- kA
Operating voltage - range	- kV
Test voltage AC at 50hz conductor /conductor	1500 V
Maximum operating voltage	-
Test voltage AC at 50hz conductor/screen	1500 V
Transfer impedance	-
Mechanical characteristics	
Tensile strength	- N
Maximum tensile load	- N
Torsion stress	- °/m
Maximum Tensile Strength Conductor	- kN
Usage characteristics	
Gases corrosivity	-
Fire resistant	-

Usage characteristics	
Flame retardant	-
Oil resistance	-
U.V resistance	-
Ozone resistance	-
Max. conductor temperature in service	70 °C
Installation temperature, range	- °C
Short-circuit max. conductor temperature	- °C
Operating temperature, range	-40 ... 75 °C

COMPLEMENTARY TECHNICAL DATA FOR WINDLINK® DATA FLEXIBLE C-PUR

Electrical Properties

	0.34 mm²	0.50 mm²
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