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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  $\geq 5 \times D$
  - with load  $\geq 10 \times D$
- Operating temperature acc. to
  - Nexans spec.:  $-40^{\circ} \text{C}$  up to  $+90^{\circ} \text{C}$
  - UL CMX:  $-40^{\circ} \text{C}$  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

## 结构特性

导体材料	-
绝缘	-
绝缘色	-
绞合	-
屏蔽	-
外护套	-
内护套	-
结构类型	2 x 0.34

## 尺寸特性

导体直径 (mm)	-
绝缘厚度	- mm
内护套厚度	- mm
Nominal outer sheath thickness	- mm
编织外径	- mm
最大线缆直径	- mm
最小线缆直径	- mm
近似重量	35 kg/km
标称外径	5.0 mm
铜含量	20 kg/km

## 电气特性

Rated Voltage U <sub>0</sub> /U	300/500 V
内导体电阻 (DC)	- Ohm/km
Max. Electrical Resistance AC 60Hz 70° C	- Ohm/km
Max. Electrical Resistance AC 60Hz 90° C	- Ohm/km
最大转移阻抗在10Mhz	10 mOhm/m
感抗	- Ohm/km
Operating capacitances	- mF/km
Minimum insulation resistance	100 MOhm.km
允许通过的短路电流	- kA
Operating voltage - range	- kV
交流电50hz导线/导线的测试电压	1500 V
Maximum operating voltage	-
交流电50hz导线/屏蔽的测试电压	1500 V
转移阻抗	-

## 机械特性

抗拉强度	- N
最大拉力	- N
Torsion stress	- ° /m
Maximum Tensile Strength Conductor	- kN

## 使用特性

气体腐蚀性	-
耐火	-

## 使用特性

阻燃 – 火焰	-
耐油	-
抗UV	-
Ozone resistance	-
芯线最高静止温度	70 ° C
安装温度范围	- ° C
短路最高线芯温度	- ° C
操作温度范围	-40 ... 75 ° C

## COMPLEMENTARY TECHNICAL DATA FOR WINDLINK® DATA FLEXIBLE C-PUR

### Electrical Properties

	0.34 mm <sup>2</sup>	0.50 mm <sup>2</sup>
Max. conductors resistance at 20° C [ $\Omega$ .Km]	58	39
Max. DC resistance of overall screen [ $\Omega$ /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 mm<sup>2</sup>/AWG size – E222606 (UL) CMX 75° C – shielded data cable

n: number of conductors

yy: section of conductor

Meter marking