



CONTACT

Market information
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Torsion resistant, PUR, screened control cables

STANDARDS

Product Nexans specification

Application

Control cable WINDLINK® Control C-PUR was specifically designed for wind turbines. These cable is used where cold flexibility and torsion resistance are required. It is therefore a suitable connection for electrical equipments in harsh environments.

Product characteristics

- Suitable for torsion up to $\pm 100^\circ/\text{m}$
- Vibration resistant
- Flame retardant according to IEC 60332-1-2
- Oil resistant according to EN 60811-2-1
- Halogen free according to IEC 60754
- Ozone resistant according to EN 60811-2-1 clause 8
- UV resistant according to IEC 60068-2-5 (only with black outer sheath)

Design

Conductor

Bare copper stranded according to IEC 60228 cl. 6

Insulation

Polyolefine compound

Core indication according to DIN VDE 0293

JZ/OZ: black numbered with/without green-yellow ground wire from 3 conductors

Assembly

Center: filler

Conductors twisted in layers + talc + non woven tape

(TP) Conductors twisted in pairs + Polyester tape + Al/polyester tape (Alu outside)

Inner sheath

Polyurethane compound + non woven tape

(TP) without inner sheath

Screen

Tinned copper braid, coverage $85 \pm 5\%$ + non woven tape

Sheath

Polyurethane compound, matt surface, colour black Ral 9005 or grey Ral 7001



Rated Voltage U_0/U
(Um)
300/500 V



Ambient dynamic
operating
temperature, range
-30 ... 80 °C



Ambient static op.
temp
-40 ... 80 °C



Gases corrosivity
-



Fire resistant
-



Oil resistance
-



RoHS compliant
Yes



U.V resistance
-

CHARACTERISTICS

Construction characteristics

Construction type	21 G 1.5
Conductor material	-
Insulation	-
Lay Up	-
Insulation colour	-
Screen	-
Inner sheath	-
Outer sheath	-

Dimensional characteristics

Conductor diameter (mm)	-
Number of cores	21
Conductor cross-section	1.5 mm ²
Insulation sheath thickness	- mm
Inner sheath thickness	- mm
Nominal outer diameter	19.2 mm
Copper content	380 kg/km
Nominal outer sheath thickness	- mm
Minimum cable diameter	- mm
Maximum cable diameter	- mm
Approximate weight	659 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (Um)	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
Test voltage	3000 V
Inductive reactance	- Ohm/km
Operating capacitances	- mF/km
Permissible short circuit current	- kA
Operating voltage - range	- kV
Maximum operating voltage	-
Transfer impedance	-

Mechanical characteristics

Mechanical stress	15 N/mm ²
Tensile strength	- N
Maximum tensile load	- N
Torsion stress	- °/m

Usage characteristics

Ambient dynamic operating temperature, range	-30 ... 80 °C
Ambient static operating temperature, range	-40 ... 80 °C
Gases corrosivity	-
Minimum bending radius, occasionally moving	15 (xD)

Usage characteristics

Fire resistant	-
Minimum bending radius, fixed installation	6 (xD)
Oil resistance	-
RoHS compliant	Yes
U.V resistance	-
Ozone resistance	-
Max. conductor temperature in service	- °C
Short-circuit max. conductor temperature	- °C
Installation temperature, range	- °C
Operating temperature, range	- °C

SELLING AND DELIVERY INFORMATION

Marking e.g.

NEXANS INTERCOND - Week/Year of production - WINDLINK Control C-PUR - 300/500V n x/G yy mm² shielded twist control cable

n: number of conductors

x/G: without/with Yellow/Green conductor

yy: section of conductor

Meter marking