WINDLINK® LV-UL WTTC unshielded

LV UL WTTC 16G1

CONTACT

Market information
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Control cables
UL Type WTTC & TC

UL Subject 2277 & UL Standard 1277

STANDARDS

Product UL 1277; UL 2277

Application
Nexans Wind Turbine Tray Cable WINDLINK® LV-UL WTTC was specifically designed to withstand extreme conditions encountered in wind turbine applications.

Product characteristics

- Flame-retardant acc. to CSA FT4 (Vertical Tray)
- Oil-resistant acc. to UL OIL RES I
- UV resistant
- Suitable for torsional applications in wind turbines

Approvals

- UL MTW
- UL TC-ER 90°C 600V
- UL WTTC 90°C 1000V
- UL DP-1
- UL AWM 600V

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Lynxeo is indicative only and shall not be binding on Lynxeo or be treated as constituting a representation on the part of Lynxeo.

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CHARACTERISTICS

Construction characteristics	
Construction type	16G1
Conductor material	Soft annealed copper
Insulation	PVC compound
Individual sheath	Nylon jacketing compound
Insulation colour	Black w. number + yellow/green
Outer sheath	Special PVC compound
Sheath colour	Black - RAL 9005
Dimensional characteristics	
Conductor diameter (mm)	-
Number of cores	16
Conductor cross-section	1 mm²
Insulation sheath thickness	0.38 mm
Conductor cross-section (AWG/KCMIL)	-
Inner sheath thickness	- mm
Nominal outer diameter	13.9 mm
Nominal outer sheath thickness	- mm
Copper content	- kg/km
Maximum cable diameter	- mm
Minimum cable diameter	- mm
Approximate weight	- kg/km
Electrical characteristics	
Nominal resistance of the conductor	19.50 Ohm/km
Max. Electrical Resistance AC 60Hz 70°C	- Ohm/km
Max. Electrical Resistance AC 60Hz 90°C	- Ohm/km
Test voltage	2500 V
Inductive reactance	- Ohm/km
Insulation resistance at 20°C	20 MOhm.km
Nominal Voltage	1000 V
Operating capacitances	- mF/km
Permissible short circuit current	- kA
Operating voltage - range	- kV
Maximum operating voltage	-
Transfer impedance	-
Mechanical characteristics	
Tensile strength	- N
Maximum tensile load	- N
Torsion stress	100 °/m
Carrying capacity	- kg
Frequent torsion	-
Torsion +/- 180°	-
Usage characteristics	
Ambient dynamic operating temperature, range	-5 ... 90 °C

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Usage characteristics	
Ambient static operating temperature, range	-40 ... 90 °C
Gases corrosivity	-
Minimum bending radius, occasionally moving	8 (xD)
Minimum bending radius, fixed installation	4 (xD)
Flame retardant	UL 1581 SEC. 1160 AND CSA FT4
Oil resistance	Oil resistance I
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

WORKING VOLTAGE

- UL AWM 600V
- UL TC-ER / MTW 600V
- UL WTTC 1000V

SELLING AND DELIVERY INFORMATION

Marking

E219385 - CE - Week/Year of production - TYPE WTTC / THHN or THWN 90°C 1000V or MTW 90°C 600 V - n x/G yy mm²/AWG size

n: number of conductors
x/G: without/with Yellow/Green conductor
yy: section of conductor
Meter marking

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