WINDLINK® LV-UL WTTC shielded

LV UL WTTC (3G1)C

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
- Low transfer impedance

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	3 G 1.0
Conductor material	Soft annealed copper
Insulation	PVC compound
Individual sheath	Nylon jacketing compound
Insulation colour	Black w. number + yellow/green
Screen	Tinned copper braid
Taping	Aluminium / Polyester tape
Outer sheath	Special PVC compound
Inner sheath	Non-hygroscopic tape
Sheath colour	Black - RAL 9005
Dimensional characteristics	
Number of cores	3
Conductor cross-section	1 mm²
Insulation sheath thickness	0.38 mm
Nominal outer diameter	8.1 mm
Approximate weight	- kg/km
Copper content	- kg/km
Inner sheath thickness	- mm
Maximum cable diameter	- mm
Minimum cable diameter	- mm
Nominal outer sheath thickness	- mm
Electrical characteristics	
Nominal resistance of the conductor	19.50 Ohm/km
Test voltage	2500 V
Insulation resistance at 20°C	20 MOhm.km
Inductive reactance	- Ohm/km
Max. Electrical Resistance AC 60Hz 70°C	- Ohm/km
Max. Electrical Resistance AC 60Hz 90°C	- Ohm/km
Nominal Voltage	600 V
Permissible current rating in open air	- A
Permissible short circuit current	- kA
Mechanical characteristics	
Tensile strength	- N
Maximum tensile load	- N
Torsion stress	100 °/m
Usage characteristics	
Ambient dynamic operating temperature, range	-5 ... 90 °C
Ambient static operating temperature, range	-40 ... 90 °C
Oil resistance	Oil resistance I
Minimum bending radius, occasionally moving	8 (xD)
Minimum bending radius, fixed installation	4 (xD)
Flame retardant	UL 1581 SEC. 1160 AND CSA FT4

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Usage characteristics	
Gases corrosivity	-
Installation temperature, range	- °C
Max. conductor temperature in service	- °C
Ozone resistance	-
Short-circuit max. conductor temperature	- °C
U.V resistance	-

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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