WINDLINK® LV-UL WTTC shielded

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

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CHARACTERISTICS

Construction characteristics	
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
Sheath colour	Black - RAL 9005
Dimensional characteristics	
Inner sheath thickness	mm
Maximum cable diameter	mm
Minimum cable diameter	mm
Nominal outer sheath thickness	mm
Electrical characteristics	
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
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
Gases corrosivity	
Installation temperature, range	... °C
Max. conductor temperature in service	°C
Ozone resistance	
Short-circuit max. conductor temperature	°C
U.V resistance	

PRODUCT LIST

Reference	Country Ref.	Name	Construction type	Nominal outer diameter [mm]
📞	-	LV UL WTTC (2x1)C	2x1	7.6

📞 = Make to order, 🏭 = In stock,

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Reference	Country Ref.	Name	Construction type	Nominal outer diameter [mm]
	-	LV UL WTTC (3G1)C	3 G 1.0	8.1
	-	LV UL WTTC (4G1)C	4 G 1.0	8.7
	-	LV UL WTTC (5G1)C	5 G 1.0	9.3
	-	LV UL WTTC (7G1)C	7 G 1.0	10.1
	-	LV UL WTTC (18G1)C	18 G 1.0	15.4
	-	LV UL WTTC (19G1)C	19 G 1.0	15.6
	-	LV UL WTTC (25G1)C	25G1	18.1
	-	LV UL WTTC (3G1.5)C	3 G 1.5	8.6
	-	LV UL WTTC (4G1.5)C	4 G 1.5	9.2
	-	LV UL WTTC (5G1.5)C	5 G 1.5	10.1
	-	LV UL WTTC (7G1.5)C	7 G 1.5	11.0
	-	LV UL WTTC (12G1.5)C	12 G 1.5	14.8
	-	LV UL WTTC (18G1.5)C	18 G 1.5	17.2
	-	LV UL WTTC (25G1.5)C	25 G 1.5	20.2
	-	LV UL WTTC (3G2.5)C	3 G 2.5	9.6
	-	LV UL WTTC (4G2.5)C	4 G 2.5	10.5
	-	LV UL WTTC (5G2.5)C	5 G 2.5	11.2
	-	LV UL WTTC (7G2.5)C	7 G 2.5	12.4
	-	LV UL WTTC (3G4)C	3 G 4	11.0
	-	LV UL WTTC (4G4)C	4 G 4	11.6
	-	LV UL WTTC (5G4)C	5 G 4	13.1
	-	LV UL WTTC (7G4)C	7 G 4	14.8
	-	LV UL WTTC (2x6)C	2 x 6	12.7
	-	LV UL WTTC (3G6)C	3 G 6	13.1
	-	LV UL WTTC (4G6)C	4 G 6	14.9
	-	LV UL WTTC (5G6)C	5 G 6	16.4
	-	LV UL WTTC (7G6)C	7 G 6	17.7
	-	LV UL WTTC (3G10)C	3 G 10	18.2
	-	LV UL WTTC (4G10)C	4 G 10	21.2
	-	LV UL WTTC (5G10)C	5 G 10	23.3
	-	LV UL WTTC (7G10)C	7 G 10	25.5
	-	LV UL WTTC (3G16)C	3 G 16	21.2
	-	LV UL WTTC (4G16)C	4 G 16	23.5
	-	LV UL WTTC (5G16)C	5 G 16	26.2
	-	LV UL WTTC (7G16)C	7 G 16	28.4
	-	LV UL WTTC (12G1)C	12G1	12.9
	-	LV UL WTTC (14G1)C	14G1	13.5
	-	LV UL WTTC (2x1,5)C	2x1,5	8.2
	-	LV UL WTTC (12G2.5)C	12G2,5	18.6
	-	LV UL WTTC (18G2.5)C	18G2,5	19.4
	-	LV UL WTTC (25G2.5)C	25G2,5	23.8

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	Reference	Country Ref.	Name	Construction type	Nominal outer diameter [mm]
📞		-	LV UL WTTC (4G25)C	4G25	28.2
📞		-	LV UL WTTC (5G25)C	5G25	31.0
📞		-	LV UL WTTC (4G35)C	4G35	32.6
📞		-	LV UL WTTC (5G35)C	5G35	35.5

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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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