

CONTACT

Market information
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Halogenfree, shielded control cables LiHCH

STANDARDS

Product Nexans specification

Application

The cable WINDLINK® Control LSOH shielded was specifically designed for wind turbines. These cable is used where high flexibility, torsion- and oil-resistance are required. It is therefore a suitable connection for electrical equipments.

Product characteristics

- Suitable for torsion up to $\pm 150^\circ/m$ (from -20°C up to 50°C)
- Vibration resistant
- Low smoke according to IEC 61034-2
- Flame retardant according to IEC 60332-1
- Oil resistant according to EN 60811-2-1 and special oils used in wind turbines
- Halogen free according to IEC 60754
- UV resistant according to IEC 60068-2-5
- Ozone resistant according to EN 60811-2-1 clause 8



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



Gases corrosivity
IEC 60754-2



Fire retardant
IEC 60332-1-2



Oil resistance
EN 60811-2-1



Smoke density
IEC 61034-2



U.V resistance
IEC 60068-2-5



Max. conductor temp. in service
 $^\circ\text{C}$



Ambient dynamic operating temperature, range
 $-30 \dots 80 \text{ }^\circ\text{C}$

CHARACTERISTICS**Construction characteristics**

Conductor material	Bare copper class 5
Insulation	Halogen free compound
Screen	Tinned copper braid, coverage ≥ 80%
Outer sheath	Halogen free compound
Sheath colour	Black - RAL 9005

Dimensional characteristics

Conductor diameter (mm)	
Insulation sheath thickness	mm
Nominal outer sheath thickness	mm
Minimum cable diameter	mm
Maximum cable diameter	mm
Approximate weight	kg/km

Electrical characteristics

Max. Electrical Resistance AC 60Hz 70°C	- Ohm/km
Max. Electrical Resistance AC 60Hz 90°C	- Ohm/km
Inductive reactance	Ohm/km
Insulation resistance at 20°C	100 MOhm.km
Operating capacitances	- mF/km
Permissible short circuit current	kA
Rated Voltage U ₀ /U (Um)	300/500 V
Test voltage	1500 V
Transfer impedance	10
Permissible current rating in open air	A

Mechanical characteristics

Torsion stress	100 °/m
Maximum tensile strength	N/mm ²

Usage characteristics

Gases corrosivity	IEC 60754-2
Fire retardant	IEC 60332-1-2
Oil resistance	EN 60811-2-1
Smoke density	IEC 61034-2
U.V resistance	IEC 60068-2-5
Ozone resistance	EN 60811-2-1
Max. conductor temperature in service	°C
Short-circuit max. conductor temperature	°C
Ambient installation temperature	- °C
Ambient dynamic operating temperature, range	-30 ... 80 °C
Ambient static operating temperature, range	-40 ... 80 °C

PRODUCT LIST

Reference	Country Ref.	Name	Construction type	Nominal diameter [inches]
☞	-	LiHCH 3G6	3G6	12.1
☞	-	LiHCH 2x0,75	2 x 0.75	6
☞	-	LiHCH 4x0,75	4 x 0.75	6.9
☞	-	LiHCH 6x1,0	6 x 1.0	8.5
☞	-	LiHCH 7x1,0	7 x 1.0	8.5
☞	-	LiHCH 10x1,0	10 x 1.0	10.7
☞	-	LiHCH 12G1,0	12 G 1.0	11.1
☞	-	LiHCH 2x1,5	2x1,5	7.1
☞	-	LiHCH 3G1,5	3G1,5	7.4
☞	-	LiHCH 4G1,5	4G1,5	8.2
☞	-	LiHCH 12x1,5	12 x 1.5	13
☞	-	LiHCH 5G2,5	5G2,5	10.9
☞	-	LiHCH 7x0,25	7x0,25	6
☞	-	LiHCH 16x0,34	16x0,34	9.3
☞	-	LiHCH 3x2x0,34	3 x 2 x 0.34	7.6
☞	-	LiHCH 4x2x0,34	4 x 2 x 0.34	8.2
☞	-	LiHCH 6x2x0,34	6 x 2 x 0.34	9.5
☞	-	LiHCH 2x0,50	2x0,50	5.6
☞	-	LiHCH 4x0,50	7x0,25	6.4
☞	-	LiHCH 3x2x0,50	3 x 2 x 0.50	8.4
☞	-	LiHCH 3G0,75	3G0,75	6.3

☞ = Make to order, ☒ = In stock,