

### 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  $\pm 150^\circ/\text{m}$  (from  $-20^\circ\text{C}$  up to  $50^\circ\text{C}$ )
- 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  
 $-30 \dots 80^\circ\text{C}$

## 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 <sub>o</sub> /U (U <sub>m</sub> )	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 <sup>2</sup>

## 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,