

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°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
 $-30 \dots 80^\circ\text{C}$

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 _o /U (U _m) | 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,