# WINDLINK® Data LiHCH LSOH Shielded

**LiHCH 4G1.0**

## CONTACT

Market information
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Halogenfree, shielded data transmission cables LiHCH / LiHCH (TP)

## STANDARDS

**Product** Nexans specification

**Application**
The cable WINDLINK® Data LSOH shielded was specifically designed for wind turbines. These cable is used for data transmission where high flexibility, torsion- and oil-resistance are required. It is therefore a suitable connection for electrical panels and sensors.

**Product characteristics**

- Suitable for torsion up to ± 150°/m (from -20°C up to 50°C)
- Vibration resistant
- Low smoke according to IEC 61034-2
- Flame retardant according to IEC 60332-1-2
- 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


Flame retardant
**IEC 60332-1-2**


Gases corrosivity
**IEC 60754-1; IEC 60754-2; EN 50525-1 Anx C**


Smoke density
**IEC 61034-2**


Oil resistance
**IEC 60811-2-1**


U.V resistance
**IEC 60068-2-5**


Max.conductor temp.in service
**- °C**


Operating temp.
**-40 ... 90 °C**


Ambient dynamic operating temperature, range
**-30 ... 80 °C**



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 | 4 G 1.0 |
| Conductor material | Bare copper class 5 |
| Insulation | Halogen free compound |
| Lay Up | Please request detailed data sheet |
| Insulation colour | Black w. number + yellow/green |
| Screen | Tinned copper braid, coverage ≥ 65% |
| Outer sheath | Halogen free compound |
| Sheath colour | Black - RAL 9005 |
| **Dimensional characteristics** | |
| Number of cores | 4 |
| Conductor cross-section | 1 mm² |
| Conductor diameter (mm) | - |
| Insulation sheath thickness | - mm |
| Diameter over braid | - mm |
| Nominal outer sheath thickness | - mm |
| Minimum cable diameter | - mm |
| Maximum cable diameter | - mm |
| Nominal outer diameter | 7.2 mm |
| Approximate weight | 90 kg/km |
| Copper content | - kg/km |
| **Electrical characteristics** | |
| Max. DC resistance of the conductor at 20°C | - Ohm/km |
| Max. Electrical Resistance AC 60Hz 70°C | - Ohm/km |
| Max. Electrical Resistance AC 60Hz 90°C | - Ohm/km |
| Inductive reactance | - Ohm/km |
| Operating capacitances | - mF/km |
| Permissible short circuit current | - kA |
| Maximum operating voltage | - |
| Nominal Voltage | 250 V |
| Test voltage | 1500 V |
| Transfer impedance | 25 |
| Permissible current rating in open air | - A |
| **Mechanical characteristics** | |
| Mechanical stress | 15 N/mm2 |
| Torsion stress | 150 °/m |
| Maximum tensile strength | - N/mm2 |
| **Usage characteristics** | |
| Flame retardant | IEC 60332-1-2 |
| Gases corrosivity | IEC 60754-1; IEC 60754-2; EN 50525-1 Anx C |
| Smoke density | IEC 61034-2 |
| Oil resistance | IEC 60811-2-1 |
| U.V resistance | IEC 60068-2-5 |



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| Usage characteristics | |
|---|---|
| Ozone resistance | IEC 60811-100 & IEC 60811-403 |
| Max. conductor temperature in service | - °C |
| Short-circuit max. conductor temperature | - °C |
| Ambient installation temperature | - °C |
| Operating temperature, range | -40 ... 90 °C |
| Ambient dynamic operating temperature, range | -30 ... 80 °C |
| Ambient static operating temperature, range | -40 ... 80 °C |
| Minimum bending radius, occasionally moving | 6 (xD) |
| Minimum bending radius, fixed installation | 4 (xD) |

## SELLING AND DELIVERY INFORMATION

Marking e.g.

NEXANS INTERCOND - Week/Year of production - WINDLINK LiHCH n x yy mm²

n: number of conductors
yy: section of conductor
Meter marking



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