

### CONTACT

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

### STANDARDS

**Producto** Especificaciones Nexans

#### 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  $\pm 150^\circ/\text{m}$  (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 60332-1-2
- 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



No propagación de la llama  
IEC 60332-1-2



Corrosividad de los gases  
IEC 60754-1; IEC 60754-2; EN 50525-1 Annex C



Densidad de los humos  
IEC 61034-2



Resistencia a aceites  
IEC 60811-2-1



Resistencia a radiaciones ultravioletas  
IEC 60068-2-5



Max. conductor temp. in service  
- °C



Temp. ambiente de utilización  
-40 ... 90 °C



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

## CHARACTERISTICS

## Características de construcción

Construction type	50 x 0.50
Material del conductor	Bare copper class 5
Aislamiento	Compuesto Libre de Halógeno
Formación	Please request detailed data sheet
Insulation colour	DIN 47100
Pantalla	Tinned copper braid, coverage ≥ 65%
Cubierta exterior	Halogen free compound
Color de cubierta	Black - RAL 9005

## Características dimensionales

Número de conductores	50
Sección del conductor	0,5 mm <sup>2</sup>
diámetro del conductor (mm)	-
Insulation sheath thickness	- mm
Diameter over braid	- mm
Nominal outer sheath thickness	- mm
Minimum cable diameter	- mm
Maximum cable diameter	- mm
Diámetro exterior nominal	- mm
Peso aproximado	- kg/km
Contenido de cobre	300 kg/km

## Características eléctricas

Resistencia máxima del conductor en CC a 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
Impedancia de transferencia	25
Intensidad admisible al aire libre	- A

## Características mecánicas

Mechanical stress	15 N/mm <sup>2</sup>
Torsion stress	150 °/m
Maximum tensile strength	- N/mm <sup>2</sup>

## Características de uso

No propagación de la llama	IEC 60332-1-2
Corrosividad de los gases	IEC 60754-1; IEC 60754-2; EN 50525-1 Anx C
Densidad de los humos	IEC 61034-2
Resistencia a aceites	IEC 60811-2-1
Resistencia a radiaciones ultravioletas	IEC 60068-2-5

**Características de uso**

Resistencia al ozono	IEC 60811-100 & IEC 60811-403
Temperatura máxima del conductor	- °C
Temperatura máxima del conductor en corto-circuito	- °C
Ambient installation temperature	- °C
Temperatura ambiente de utilización (rango)	-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 mm<sup>2</sup>

n: number of conductors

yy: section of conductor

Meter marking