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Halogenfree, shielded control cables LiHCH

**STANDARDS**

Product

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  $-20^\circ C$  up to  $50^\circ C$ )
- 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



Uo/U  
(Um)  
300/500 V



Gases corrosivity  
IEC 60754 - 2



Fire retardant  
IEC 60332 - 1 - 2



Oil resistance  
EN 60811 - 2 - 1



IEC 61034 - 2



U.V resistance  
IEC 60068 - 2 - 5



Max. conductor  
temp.in service  
- °C



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

## CHARACTERISTICS

	4G1,5
	Bare copper class 5
Insulation colour	Black w. number + yellow/green Tinned copper braid, coverage 80%
Sheath colour	Black - RAL 9005
	4
	1.5 mm <sup>2</sup>
Conductor diameter (mm)	
Insulation sheath thickness	- mm
Nominal outer sheath thickness	- mm
Diameter over braid	6.2 mm
Minimum cable diameter	- mm
Maximum cable diameter	- mm
Nominal diameter	8.2 inches
( )	- kg/km
Copper content	158 kg/km
20 ° C DC	13.3 Ohm/km
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
U <sub>o</sub> /U (U <sub>m</sub> )	300/500 V 1500 V
Transfer impedance	10
Permissible current rating in open air	- A
Torsion stress	100 ° /m
Maximum tensile strength	- N/mm <sup>2</sup>
Gases corrosivity	IEC 60754 - 2
Fire retardant	IEC 60332 - 1 - 2
Oil resistance	EN 60811 - 2 - 1 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
Minimum bending radius, occasionally moving	8 (xD)
Minimum bending radius, fixed installation	4 (xD)