

HELUWIND® WK 110-Torsion

0,6/1 kV, UV resistant, halogen-free



Technical data

- **Temperature range**
flexing -40°C to +90°C
fixed installation -40°C to +90°C
- **Permissible conductor operating temperature** +90°C
- **Nominal voltage**
VDE U₀/U 0,6/1 kV
- **Test voltage**
core/core 4000 V
- **Highest permissible voltage**
- DC:
Conductor/Conductor 1,8 kV
Conductor/Earth 0,9 kV
- AC: Conductor/Earth 0,7 kV
- Three phase: Conductor/Conductor 1,2 kV
- **Minimum bending radius**
flexing 6x cable Ø
fixed installation 4x cable Ø
- **Torsion application**
+/- 150° per 1m
- **Flame test**
IEC 60332-1-2
- **Corrosiveness of combustion gases**
IEC 60754-2
- **Halogen-free**
IEC 60754-1
- **Smoke density**
IEC 61034-2
- **Oil**
IEC 60811-2-1,
acc. to IEC 60811-404

Cable structure

- Special bare copper conductors, fine stranded acc. to IEC 60228
- Insulation: special compound
- Core identification: see table
- Sheath: special compound
- Sheath colour: black

Properties

- Halogen-free
- Extremely abrasion resistant
- Flame retardant
- Torsion tested
- Extremely oil resistant
- UV resistant
- Ozon-resistant
- Multi-climate operation
- Designed for CCV application
- Easy to assemble

Note

For more information, especially on custom cables, please contact us: wind@helukabel.de

Application

The WK 110-Torsion has been designed for flexible use, and specifically for torsional load in the cable loop of a wind power plant. The voltage level has been configured as 0.6/1 kV for all dimensions. The WK series has been successfully tested for more than 18,000 torsion cycles and thus offers optimum operational reliability far beyond the service life of the wind power plant.

☑ = Product conforms with Low-Voltage Directive 2014/35/EU.

Core identification acc. to DIN VDE 0293-308

Part no.	No. cores x cross-sec. mm²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
710751	3 G 1,5	-	8,4	43,2	111,9
710571	4 G 1,5	-	8,9	58,0	126,9
710752	5 G 1,5	-	9,9	72,0	154,6
710759	3 G 2,5	-	9,3	72,0	151,4
710760	4 G 2,5	-	10,1	96,0	181,4

Core identification black

Part no.	No. cores x cross-sec. mm²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
710435	1 x 1,5	-	3,9	14,4	27,0
710436	1 x 2,5	-	4,6	24,0	37,0
710437	1 x 4	-	5,5	38,4	52,0
710438	1 x 6	-	6,5	57,6	76,0

Core identification black

Part no.	No. cores x cross-sec. mm²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
709855	1 x 10	-	8,3	96,0	158,0
709856	1 x 16	-	10,7	153,6	268,0
709857	1 x 25	-	11,8	240,0	381,0
709858	1 x 35	-	13,3	336,0	454,0
709859	1 x 50	-	15,8	480,0	625,0
709860	1 x 70	-	18,4	672,0	894,1
709861	1 x 95	-	20,4	912,0	1222,0
709862	1 x 120	-	22,9	1152,0	1490,0
709863	1 x 150	-	25,5	1440,0	1910,0
709864	1 x 185	-	27,8	1776,0	2310,0
709865	1 x 240	-	30,5	2304,0	2980,0
709866	1 x 300	-	33,5	2880,0	3600,0
709867	1 x 400	-	37,5	3840,0	4500,0

Dimensions and specifications may be changed without prior notice.