

HELUWIND® WK POWERLINE ALU

0,6/1 kV, flexible ALU-Conductor



Technical data

- **Temperature range**
flexing -20°C to +90°C
fixed installation -40°C to +105°C
- Permissible conductor **operating temperature** +105°C up to 3000h
- **Nominal voltage**
0,6/1 kV
- **Test voltage**
4 kV
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 4x cable Ø
- **Flame test**
IEC 60332-1-2
- **Approvals**
acc. to DIN VDE 0250-813
UL/CSA in preparation

Cable structure

- Aluminium conductor,
fine stranded wires
- Special insulation black
- Sheath: special compound
- Sheath colour: black

Properties

- UV resistant
- Oil resistant
- Easy to assemble
- Recyclable

Note

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

Application

The WK POWERLINE ALU is a highly flexible aluminium cable with a finely stranded structure and is designed for use in the power engineering sector; specifically, for power cabling in wind power plants. Thanks to its high degree of flexibility and low tare weight, this cable can be fed into the tower as a single length. This eliminates the need for time-consuming cabling of each individual tower segment. However, its key advantage lies in the process reliability the connection technology offers: using this cable can reduce the number of interruptions between the topmost tower segment and the converter from 90 connection points to just 18 (depending on the number of power cables and tower segments). As a result, the amount of time required for installation can drop from several days to a few hours. For torsion applications, we recommend the WK 103-Torsion, WK 135-Torsion or WK 137-Torsion.

The HELUWIND® WK POWERLINE ALU may only be used with certified connection technology from HELUKABEL®. This includes C8 crimp connections and screwed connections; both described in the "Connection Technology" section and tested in accordance with IEC 61238-1 cl. A.

See the accessories section of the catalogue. The cable is also available with a halogen-free design, UL/CSA approval or a rated voltage of 1. 8/3 kV. **CE** = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	AL weight kg / km	Weight app. kg / km
707062	1 x 70	-	17,4	206,0	379,0
707063	1 x 95	-	18,8	280,0	480,0
707064	1 x 120	-	20,6	355,0	576,0
706408	1 x 150	-	22,4	441,0	665,0

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	AL weight kg / km	Weight app. kg / km
706088	1 x 185	-	24,5	544,0	950,0
706089	1 x 240	-	27,5	706,0	1150,0
706084	1 x 300	-	31,9	882,0	1400,0
706085	1 x 400	-	36,7	1176,0	1680,0

Dimensions and specifications may be changed without prior notice.