HELUWIND® WK 110-TORSION-MULTI

extremely abrasion-resistant, halogen-free



TECHNICAL DATA

Torsion resistant cable

Temperature range	flexible -40°C to +90°C fixed -40°C to +90°C
Permissible operating temperature of the conductor	+90°C
Nominal voltage	VDE AC U_0/U 600/1000 V
Max. permissible operating voltage	alternating current (AC) conductor/earth 700 V three-phase alternating current (AC) conductor/conductor 1200 V direct current (DC) conductor/earth 900 V direct current (DC) conductor/conductor 1800 V
Test voltage core/core	4000 V
Minimum bending radius	flexible 6x Outer-Ø fixed 4x Outer-Ø

CABLE STRUCTURE

- Copper wire bare acc. to DIN VDE 0295 / IEC 60228
- Core insulation: special compound
- Core identification: see table
- G = with protective conductor GN-YE
- Cores stranded in layers with optimal lay lengths
- Outer sheath: special compound
- Sheath colour: black

PROPERTIES

- resistant to: oil, UV radiation, ozone
- extremely abrasion-resistant
- Torsion tested
- halogen-free
- flame-retardant
- Suitable for use in multiple climates
- Designed for CCV applications
- Torsion angle: +/- 150°/m

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404

APPLICATION

Designed for flexible use, especially for torsional stress in the cable loop of a wind turbine. The voltage level for all dimensions is designed for 0.6/1 kV. The HELU WK series has been successfully tested with over 18,000 torsion cycles and therefore offers optimum functional reliability far beyond the service life of a wind turbine.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- Further details, as well as information regarding custom solutions and suitable connection technology, can be found at wind@heluka-bel.de

Core identification acc. to DIN VDE 0293-308, colour coded

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
710751	3 G 1.5	16	8.4	43.2	111.9
710571	4 G 1.6	16	8.9	58.0	126.9
710752	5 G 1.7	16	9.9	72.0	154.6
710759	3 G 2.5	14	9.3	72.0	151.4
710760	4 G 2.5	14	10.1	96.0	181.4
710769	4 G 6	10	13.5	230.4	373.4
17001816	4 G 10	8	18.8	384.0	686.0
710778	5 G 16	6	23.8	768.0	1291.0
17002673	4 x 25	4	26.2	960.0	1540.0

Core identification: black cores with consecutive labeling in white digits

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
713516	3 G 2.5	14	9.3	72.0	144.4
713517	5 G 2.5	14	11.1	120.0	213.4
713518	7 G 2.5	14	12.5	168.0	311.3
713519	3 G 4	12	10.9	116.0	209.4
713520	5 G 6	10	16.0	288.0	489.5

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