

HELUWIND® WK 103w-Torsion

0,6/1 kV, UV resistant, UL/CSA-Style 10678/21179 Single-/Multicore



Technical data

- **Temperature range**
flexing -35°C to +90°C
fixed installation -40°C to +90°C
installation -20°C to +90°C
- Permissible conductor **operating temperature** +90°C
- **Nominal voltage**
VDE U₀/U 0,6/1 kV
UL 1000 V
- **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 8x cable Ø
fixed installation 4x cable Ø
- **Torsion application**
+/- 140° per 1m
- **Approvals**
Singlecore UL Style 10678 (to 300 mm²)
Multicore UL Style 21179
cRUus
- **Flame test**
FT1, VW-1, IEC 60332-1-2

Cable structure

- Special bare copper conductor, acc. to IEC 60228
- Special heat-resistant insulation
- Core identification: see table
- Multiconductors cabled
- Sheath: special heat-resistant compound
- Sheath colour: black

Properties

- UV resistant
- Multi-climate operation
- Torsion tested
- Flame retardant
- Oil resistant
- Recyclable
- Easy to assemble

Note

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

Application

The WK 103w-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, which means that the cables can also be laid in parallel in compliance with UL standards. It is no longer necessary to separate the cable routes. 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.

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

Continuation ►

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Core identification black with white numbers, 3 cores and more with GN-YE

Part no.	No.cores x cross-sec. mm²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
704809	4 G 0,34	22	7,1	29,0	86,0
704810	4 G 0,5	20	7,4	33,4	99,0
704811	6 G 0,5	20	8,6	51,2	121,0
704812	10 G 0,5	20	10,8	48,0	165,0
704813	12 G 0,5	20	11,1	84,0	208,0
704814	3 G 0,75	19	6,5	22,0	67,8
704815	4 G 0,75	19	7,9	29,0	100,0
704816	5 G 0,75	19	8,6	36,0	120,0
704817	7 G 0,75	19	9,5	51,0	137,4
704818	10 G 0,75	19	11,0	72,0	200,0
704819	12 G 0,75	19	11,8	87,0	220,0
704820	14 G 0,75	19	12,5	101,0	238,0
704821	16 G 0,75	19	13,2	116,0	271,0
704822	18 G 0,75	19	13,9	130,0	310,0
704823	21 G 0,75	19	15,2	152,0	380,0
704824	25 G 0,75	19	16,9	180,0	490,0
704825	32 G 0,75	19	18,2	231,0	560,0
704826	36 G 0,75	19	19,1	260,0	620,0
704827	40 G 0,75	19	20,5	288,0	729,0
704828	41 G 0,75	19	20,8	296,0	750,0
704829	50 G 0,75	19	23,5	441,0	990,0
704830	4 G 1	18	8,3	39,0	100,0
704831	5 G 1	18	9,0	48,0	110,0
704832	7 G 1	18	10,5	68,0	140,0
704833	10 G 1	18	13,0	96,0	220,0
704834	12 G 1	18	13,2	116,0	240,0
704835	14 G 1	18	13,4	135,0	280,0
704836	16 G 1	18	14,1	154,0	310,0
704837	18 G 1	18	15,1	173,0	360,0
704838	21 G 1	18	16,7	202,0	410,0
704839	25 G 1	18	18,4	240,0	500,0
704840	32 G 1	18	19,8	308,0	590,0
704841	36 G 1	18	20,6	346,0	700,0
704842	40 G 1	18	22,4	384,0	800,0
704843	41 G 1	18	22,4	394,0	810,0
704844	50 G 1	18	24,6	480,0	980,0
704845	2 x 1,5	16	7,9	29,0	75,0
703920	3 G 1,5	16	8,0	44,0	104,9
703921	4 G 1,5	16	8,9	58,0	132,0
703922	5 G 1,5	16	9,7	72,0	157,1
704366	7 G 1,5	16	12,0	101,0	230,8
704846	10 G 1,5	16	13,1	144,0	270,0
704847	12 G 1,5	16	14,3	173,0	360,0
704848	14 G 1,5	16	14,9	202,0	420,0
704849	16 G 1,5	16	15,7	231,0	450,0
704850	18 G 1,5	16	16,8	260,0	510,0
704851	21 G 1,5	16	17,8	303,0	590,0
704852	25 G 1,5	16	20,6	360,0	700,0
704853	32 G 1,5	16	22,2	460,0	900,0
704854	36 G 1,5	16	23,1	519,0	980,0

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Part no.	No.cores x cross-sec. mm²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
704855	40 G 1,5	16	25,0	576,0	1030,0
704856	41 G 1,5	16	25,0	591,0	1050,0
704857	50 G 1,5	16	27,7	720,0	1200,0
710226	2 x 2,5	14	8,4	48,0	115,7
704267	3 G 2,5	14	8,9	72,0	150,8
703925	4 G 2,5	14	9,7	96,0	230,0
703926	5 G 2,5	14	10,9	120,0	237,9
704858	7 G 2,5	14	14,4	168,0	360,0
704859	10 G 2,5	14	15,8	240,0	480,0
704367	12 G 2,5	14	16,3	288,0	527,0
705040	19 G 2,5	14	21,0	456,0	590,0
704368	3 G 4	12	10,8	116,0	227,5
703930	4 G 4	12	12,0	154,0	286,8
704269	5 G 4	12	13,6	192,0	365,7
704860	7 G 4	12	15,9	269,0	489,0
704861	12 G 4	12	19,6	461,0	740,0
704862	3 G 6	10	13,1	173,0	340,0
704863	4 G 6	10	14,6	230,4	460,0
704864	5 G 6	10	16,3	288,0	566,4
704865	7 G 6	10	19,6	404,0	780,0
706318	3 G 10	8	16,4	288,0	540,0
704866	4 G 10	8	18,2	384,0	670,0
703932	5 G 10	8	20,1	480,0	851,2
704867	7 G 10	8	23,5	672,0	1150,0
712561	3 G 16	6	20,6	461,0	1083,2
704868	4 G 16	6	20,7	615,0	1180,7
703933	5 G 16	6	25,4	768,0	1348,1
704869	4 G 25	4	26,4	960,0	1576,2
704870	5 G 25	4	28,2	1200,0	1900,0
704871	4 G 35	2	31,4	1344,0	2286,0
704872	5 G 35	2	35,4	1680,0	2770,6
704873	4 G 50	1	36,7	1920,0	2800,0

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
706337	1 x 25	4	11,4	240,0	318,1
704287	1 x 35	2	12,9	336,0	454,4
704288	1 x 50	1	15,6	480,0	630,2
704289	1 x 70	2/0	17,9	672,0	876,8
704874	1 x 95	3/0	21,4	912,0	1230,0
704291	1 x 120	4/0	23,1	1152,0	1535,1
704875	1 x 150	300 kcmil	24,7	1440,0	2966,8
704293	1 x 185	350 kcmil	27,5	1776,0	2284,0
704294	1 x 240	450 kcmil	31,2	2304,0	2966,8
704295	1 x 300	500 kcmil	34,2	2880,0	3672,0
704876	1 x 400	750 kcmil	39,3	3840,0	4500,0

Dimensions and specifications may be changed without prior notice.