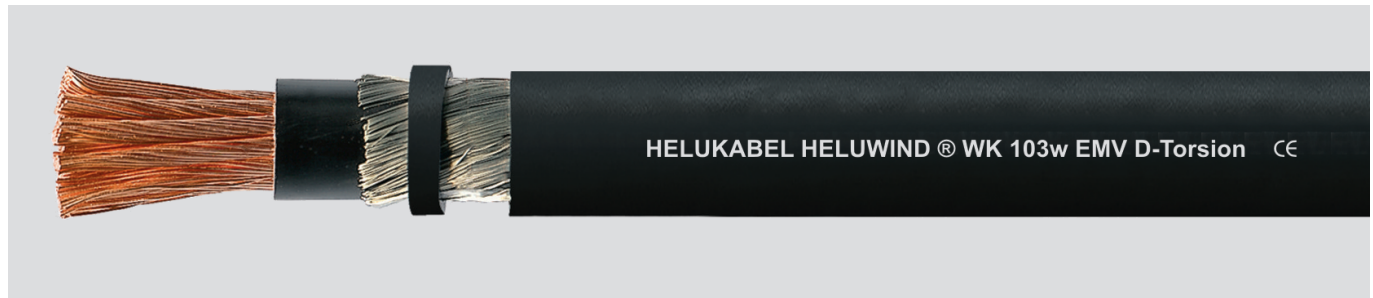


HELUWIND® WK 103w EMV D-Torsion

0,6/1 kV, screened, 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
core/screen 2000 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 10x cable Ø
fixed installation 5x cable Ø
- **Torsion application**
+/- 140° per 1m
- **Approvals**
Singlecore UL Style 10678
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
- EMC-screened types have tinned copper wrapping
- 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 EMV D-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.

EMC = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper wrapping on both ends.

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
704752	4 G 0,34	22	7,7	32,0	91,0
704755	4 G 0,5	20	8,0	37,8	105,0
704758	6 G 0,5	20	9,2	53,6	130,0
704762	10 G 0,5	20	11,4	73,0	170,0
704763	12 G 0,5	20	11,7	88,4	220,0
706599	2 x 0,75	19	6,7	36,0	70,5
704764	3 G 0,75	19	7,7	43,2	97,0
704765	4 G 0,75	19	7,8	52,6	101,6
704767	5 G 0,75	19	9,0	63,0	145,0
704369	7 G 0,75	19	9,7	82,8	162,6
705822	3 x 2 x 0,75	19	11,5	73,0	211,0
704769	4 x 2 x 0,75	19	12,7	91,0	211,0
704768	8 G 0,75	19	10,7	93,0	220,0
704771	12 G 0,75	19	12,2	126,9	257,5
704774	18 G 0,75	19	14,4	179,0	400,0
704775	12 x 2 x 0,75	19	17,6	223,0	520,0
704268	25 G 0,75	19	17,8	256,0	547,2
705228	40 G 0,75	19	21,2	385,0	805,4
704778	41 G 0,75	19	21,2	370,8	795,0
704779	50 G 0,75	19	23,5	441,0	900,0
704784	2 x 1,5	16	6,8	44,0	86,0
704785	3 G 1,5	16	8,8	68,1	133,0
704786	4 G 1,5	16	9,4	87,9	159,0
704788	5 G 1,5	16	10,3	104,0	195,0
704790	7 G 1,5	16	11,6	140,8	247,0
704792	12 G 1,5	16	14,7	226,8	410,0
704793	3 G 2,5	14	10,4	104,4	210,0
704794	4 G 2,5	14	10,5	132,7	218,4
704795	5 G 2,5	14	12,3	161,1	288,0
704796	7 G 2,5	14	13,5	223,1	355,1
704797	12 G 2,5	14	16,7	350,6	560,0
705039	19 G 2,5	14	21,7	561,0	638,0
704798	5 G 4	12	14,0	237,4	382,0
704799	7 G 4	12	16,3	325,0	582,0
704800	12 G 4	12	20,0	532,1	806,0
704801	5 G 6	10	17,4	341,0	640,0
704802	4 G 10	8	17,8	445,6	727,0
704803	5 G 10	8	20,7	550,2	935,0
704804	4 G 16	6	21,1	692,2	1072,0
704805	5 G 16	6	26,2	881,0	1667,3
704806	4 G 25	4	26,0	1059,0	1664,0
704807	5 G 25	4	28,6	1327,0	2014,0
704808	4 G 50	1	37,0	2080,0	3200,0

Dimensions and specifications may be changed without prior notice.

Core identification acc. to DIN 47100

Part no.	No. cores x cross-sec. mm²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
704749	2 x 2 x 0,25	24	8,9	27,0	90,0
704750	4 x 2 x 0,25	24	9,9	39,0	115,0
704751	5 x 2 x 0,25	24	11,1	46,0	130,0
704753	2 x 2 x 0,34	22	9,6	35,0	110,0
704754	4 x 2 x 0,34	22	11,0	47,0	130,0
704756	2 x 2 x 0,5	20	9,8	39,0	115,0
704757	4 x 0,5	20	8,0	37,8	105,0
704759	6 x 0,5	20	9,2	53,6	130,0
704761	4 x 2 x 0,5	20	11,3	69,5	184,1
704766	2 x 2 x 0,75	19	10,4	54,0	130,0
705829	3 x 2 x 0,75	19	11,5	73,0	172,0
704770	4 x 2 x 0,75	19	12,7	91,0	214,5
704772	12 x 0,75	19	12,2	126,9	257,5
704773	8 x 2 x 0,75	19	17,1	170,0	410,0
704776	12 x 2 x 0,75	19	17,6	223,0	520,0
704777	32 x 0,75	19	18,8	294,0	610,0
704780	4 x 1	18	8,7	56,0	110,0
704781	6 x 1	18	10,2	82,0	150,0
704782	8 x 1	18	11,7	106,0	210,0
704783	12 x 1	18	13,3	150,0	280,0
704787	2 x 2 x 1,5	16	12,1	90,0	180,0
704789	3 x 2 x 1,5	16	14,0	120,0	235,0
704791	4 x 2 x 1,5	16	14,6	150,0	210,0

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
706601	4 x 0,75	19	7,8	52,6	101,6
703147	1 x 70	2/0	19,8	739,0	950,0
703148	1 x 95	3/0	22,5	989,0	1280,0
703041	1 x 120	4/0	23,0	1242,0	1742,6
703149	1 x 150	300 kcmil	27,5	1548,0	2000,0
703150	1 x 185	350 kcmil	27,8	1904,0	2395,8
703151	1 x 240	450 kcmil	31,6	2451,0	3150,0
703152	1 x 300	500 kcmil	34,4	3027,0	3920,0