

HELUWIND® WK 137-Torsion FT4

0,6/1 kV, 90°C (80°C acc. to UL), suitable offshore, UV resistant,
UL/CSA-Style 10553/20234 Single-/Multicore



Technical data

- **Temperature range**
flexing -40°C to +90°C
fixed installation -40°C to +90°C
acc. to UL to +80°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**
+/- 150° per 1m
- **Approvals**
Singlecore UL Style 10553
Multicore UL Style 20234
cRUus
- **Flame test**
FT4, IEC 60332-3-24
UL 758, Cable flame test
- **Halogen-free**
IEC 60754-1
- **Smoke density**
IEC 61034-1+2
- **Oil**
acc. to oil res II
- **WTTC** in preparation

Application

The WK 137-Torsion FT4 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. Additionally, this cable meets the strict requirements of CSA flame test FT4 and, thanks to its highly durable sheath and absence of halogen, is ideal for use in offshore wind power plants. 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. Advantages of WK 137-Torsion FT4 over H07BN4-F: Fire behaviour in accordance with IEC 60332-3-24 and FT4, increased wear resistance.

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

Cable structure

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

Properties

- Halogen-free
- Extremely abrasion resistant
- Low adhesion
- High flame retardant
- Torsion tested
- Suitable for offshore applications
- Extremely oil resistant
- UV 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

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. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
705741	3 G 0,75	19	7,1	22,0	88,0
705742	5 G 0,75	19	8,6	36,0	122,0
705743	7 G 0,75	19	10,0	51,0	170,0
705744	12 G 0,75	19	11,8	87,0	220,0
705745	18 G 0,75	19	13,9	130,0	310,0
705719	3 G 1	18	7,8	49,0	133,0
705746	5 G 1	18	9,0	48,0	110,0
705747	7 G 1	18	10,5	68,0	140,0
705748	12 G 1	18	13,2	116,0	240,0
705749	18 G 1	18	15,1	173,0	360,0
705720	3 G 1,5	16	8,4	44,0	113,5
705721	4 G 1,5	16	9,1	58,0	139,8
705722	5 G 1,5	16	9,9	72,0	166,5
705723	7 G 1,5	16	11,5	101,0	235,2
705724	12 G 1,5	16	14,3	173,0	360,0
705725	18 G 1,5	16	16,8	260,0	524,6
705726	3 G 2,5	14	9,3	72,0	151,4
705727	5 G 2,5	14	11,1	120,0	227,6
705750	7 G 2,5	14	14,4	168,0	360,0
705751	3 G 4	12	10,8	116,0	222,0
705752	5 G 4	12	13,2	192,0	382,0
705753	7 G 4	12	15,9	269,0	530,0
705754	3 G 6	10	13,1	173,0	340,0
705728	4 G 6	10	14,6	231,0	460,0
705729	5 G 6	10	16,3	288,0	508,6
705755	7 G 6	10	19,6	404,0	780,0

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

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
705730	4 G 10	8	17,4	384,0	670,0
705756	5 G 10	8	20,9	480,0	893,6
705757	4 G 16	6	20,7	615,0	1000,0
705731	5 G 16	6	25,8	768,0	1390,0
705732	4 G 25	4	26,2	960,0	1556,6
705758	5 G 25	4	28,2	1200,0	1900,0
705759	4 G 35	2	31,0	1344,0	2234,6
705733	5 G 35	2	34,7	1680,0	2747,3

Core identification black

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
708974	1 x 25	4	11,4	240,0	454,0
708975	1 x 35	2	13,4	336,0	476,0
708976	1 x 50	1	15,6	480,0	630,0
708977	1 x 70	2/0	18,2	672,0	894,0
708978	1 x 95	3/0	21,9	912,0	1222,0
708979	1 x 120	4/0	22,9	1152,0	1314,0
708980	1 x 150	300 kcmil	24,7	1440,0	1814,0
708981	1 x 185	350 kcmil	26,1	1776,0	2186,0
708982	1 x 240	450 kcmil	30,2	2304,0	2810,0
708983	1 x 300	500 kcmil	32,8	2880,0	3518,0
708984	1 x 400	750 kcmil	39,3	3840,0	4500,0

Dimensions and specifications may be changed without prior notice.