

HELUPOWER® H07RN-F LSOH

oil-resistant, implementable up to a water depth of 100 m



HELUKABEL® HELUPOWER® H07RN-F LSOH <HAR> CE

TECHNICAL DATA

Rubber connection cable acc. to DIN VDE 0285-525-2-21 / DIN EN 50525-2-21

Temperature range flexible -40°C to +90°C
fixed -50°C to +90°C

Permissible operating temperature of the conductor +90°C

Short-circuit temperature at conductor +250°C

Nominal voltage AC U₀/U 450/750 V

Max. permissible operating voltage
alternating current (AC) conductor/earth 476 V
three-phase alternating current (AC) conductor/conductor 825 V
direct current (DC) conductor/earth 619 V
direct current (DC) conductor/conductor 1238 V

Test voltage core/core 2500 V

Minimum bending radius flexible 6x Outer-Ø
fixed 4x Outer-Ø

- Sheath colour: black

PROPERTIES

- resistant to: oil, UV radiation, ozone, weathering effects, lubricating oils, greases
- for outdoor use
- halogen-free

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
- ozone-resistant acc. to DIN VDE 0473-811-403 / DIN EN 60811-403

APPLICATION

Halogen-free rubber sheathed cables for use with medium mechanical stress in dry, damp, wet rooms and outdoors. Can only be used in stagnant waters (also in salt water) up to a water depth of 100 m (AD8) and a water temperature of min. +5°C. When installed in pipes or similar closed systems, the use of the cable is permitted up to and including 1000 V AC voltage or up to 750 V DC voltage against earth.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: Special rubber
- Core identification acc. to DIN VDE 0293-308,
1 core(s): black
2 - 5 core(s): colour coded
7 - 12 core(s): black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores,
G = with protective conductor GN-YE, in the outer layer,
x = without protective conductor
- Cores stranded in layers with optimal lay lengths
- Outer sheath: Special rubber

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer-Ø min. - max. mm	Cu-weight kg/km	Weight kg/km, approx.
30737	1 x 1.5	16	5.7 - 6.5	14.4	51.0
30738	1 x 2.5	14	6.3 - 7.2	24.0	67.0
30739	1 x 4	12	7.2 - 8.1	38.0	92.0
30740	1 x 6	10	7.9 - 8.8	58.0	121.0
30741	1 x 10	8	9.5 - 11.5	96.0	186.0
30742	1 x 16	6	10.8 - 13.0	154.0	256.0
30743	1 x 25	4	12.7 - 15.0	240.0	368.0
30744	1 x 35	2	14.3 - 16.5	336.0	485.0
30745	1 x 50	1	16.5 - 19.5	480.0	668.0
30746	1 x 70	2/0	18.6 - 22.5	672.0	905.0
30747	1 x 95	3/0	20.8 - 25.4	912.0	1180.0
30748	1 x 120	4/0	22.8 - 27.6	1152.0	1460.0
30749	1 x 150	300 kcmil	25.2 - 30.3	1440.0	1810.0
30750	1 x 185	350 kcmil	27.6 - 33.0	1776.0	2165.0
30751	1 x 240	500 kcmil	30.6 - 36.3	2304.0	2750.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer-Ø min. - max. mm	Cu-weight kg/km	Weight kg/km, approx.
30752	1 x 300	600 kcmil	33.5 - 39.0	2880.0	3271.0
30753	1 x 400	750 kcmil	37.4 - 41.5	3840.0	4286.0
30754	1 x 500	1000 kcmil	41.3 - 46.0	4800.0	5301.0
30755	1 x 630	1250 kcmil	45.5 - 50.0	6048.0	6959.0
30756	2 x 1	18	7.7 - 9.0	19.0	93.0
30757	2 x 1.5	16	8.5 - 9.9	29.0	115.0
30758	2 x 2.5	14	10.2 - 11.7	48.0	165.0
30759	2 x 4	12	11.8 - 13.4	77.0	225.0
30760	2 x 6	10	13.1 - 14.9	115.0	300.0
30761	2 x 10	8	17.7 - 20.0	192.0	550.0
30762	2 x 16	6	20.2 - 22.6	307.0	745.0
30763	2 x 25	4	24.3 - 27.0	480.0	1060.0
30764	3 G 1	18	8.3 - 9.7	29.0	120.0
30765	3 G 1.5	16	9.2 - 10.7	43.0	150.0
30766	3 G 2.5	14	10.9 - 12.5	72.0	200.0

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Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer-Ø min. - max. mm	Cu-weight kg/km	Weight kg/km, approx.
30767	3 G 4	12	12.7 - 14.4	115.0	295.0
30768	3 G 6	10	14.1 - 16.0	173.0	380.0
30769	3 G 10	8	19.1 - 21.5	288.0	675.0
30770	3 G 16	6	21.8 - 24.3	461.0	950.0
30771	3 G 25	4	26.1 - 28.8	720.0	1355.0
30772	3 G 35	2	29.3 - 32.5	1008.0	1765.0
30773	3 G 50	1	34.1 - 37.0	1440.0	2415.0
30774	3 G 70	2/0	38.4 - 40.9	2016.0	3230.0
30775	3 G 95	3/0	43.3 - 47.4	2736.0	4225.0
30776	3 G 120	4/0	47.4 - 53.2	3456.0	5190.0
30777	3 G 150	300 kcmil	52.0 - 57.5	4320.0	6415.0
30778	3 G 185	350 kcmil	57.0 - 62.7	5328.0	7700.0
30779	3 G 240	500 kcmil	65.0 - 71.4	6912.0	9458.0
30780	3 G 300	600 kcmil	72.0 - 78.3	8640.0	11635.0
30781	4 G 1	18	9.2 - 10.7	38.0	145.0
30782	4 G 1.5	16	10.2 - 11.7	58.0	175.0
30783	4 G 2.5	14	12.1 - 13.8	96.0	255.0
30784	4 G 4	12	14.0 - 15.9	154.0	355.0
30785	4 G 6	10	15.7 - 17.7	230.0	485.0
30786	4 G 10	8	20.9 - 23.6	384.0	845.0
30787	4 G 16	6	23.8 - 26.4	614.0	1185.0
30788	4 G 25	4	28.9 - 32.1	960.0	1730.0
30789	4 G 35	2	32.5 - 36.0	1344.0	2250.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer-Ø min. - max. mm	Cu-weight kg/km	Weight kg/km, approx.
30790	4 G 50	1	37.7 - 41.5	1920.0	3085.0
30791	4 G 70	2/0	42.7 - 47.1	2688.0	4145.0
30792	4 G 95	3/0	48.4 - 54.9	3648.0	5465.0
30793	4 G 120	4/0	53.0 - 57.5	4608.0	6670.0
30794	4 G 150	300 kcmil	58.0 - 63.6	5760.0	8290.0
30795	4 G 185	350 kcmil	64.0 - 69.7	7104.0	9385.0
30796	5 G 1	18	10.2 - 11.7	48.0	180.0
30797	5 G 1.5	16	11.2 - 12.8	72.0	220.0
30798	5 G 2.5	14	13.3 - 15.1	120.0	310.0
30799	5 G 4	12	15.6 - 17.9	192.0	445.0
30800	5 G 6	10	17.5 - 20.0	288.0	605.0
30801	5 G 10	8	22.9 - 25.7	480.0	1035.0
30802	5 G 16	6	26.4 - 30.0	768.0	1465.0
30803	5 G 25	4	32.0 - 35.4	1200.0	2145.0
30804	5 G 35	2	35.7 - 39.5	1680.0	2579.0
30805	5 G 50	1	41.8 - 47.0	2400.0	3594.0
30806	5 G 70	2/0	47.5 - 52.5	3360.0	4837.0
30807	5 G 95	3/0	54.0 - 58.0	4560.0	6269.0
30808	7 G 1.5	16	14.7 - 17.5	101.0	355.0
30809	7 G 2.5	14	17.1 - 20.0	168.0	498.0
30810	12 G 1.5	16	17.6 - 21.0	173.0	505.0
30811	12 G 2.5	14	20.6 - 24.5	288.0	710.0