

HELUPOWER® H07RN-F LS0H

halogen-free



HELUKABEL HELUPower H07RN-F LS0H <HAR> CE

Technical data

- Rubber sheathed cable to DIN VDE 0285-525-2-21 / DIN EN 50525-2-21
- Temperature range**
flexing -40°C up to +90°C
fixed installation -50°C up to +90°C
- Permissible conductor **operating temperature** +90°C
- Permissible **short circuit temperature** +250°C
- Nominal voltage**
U₀/U 450/750 V
- Max. permissible **operating voltage**
- 3-Phase and single phase operation 476/825 V
- DC operation 619/1238 V
- Test voltage**
core/core 2500 V
- Minimum bending radius**
flexing 6x outer Ø
fixed installation 4x outer Ø

Cable structure

- Bare copper conductor, fine wire acc. to DIN VDE 0295 cl.5 / IEC 60228 cl.5
- Core insulation: special rubber
- Core identification acc. to DIN VDE 0293-308
1 core: black
≤ 5 cores: coloured
≥ 6 cores: black with continuous white numbering
- ≥ 3 cores: incl. GN-YE conductor
G = with GN-YE conductor, in the outer layer
x = no GN-YE conductor
- Cores stranded in layers with optimal lay length
- Outer sheath: special rubber
- Sheath colour: black

Properties

- resistant to**
UV-radiation, weather, fats, lubricating oil
 - Torsion-resistant in wind turbines
Torsion angle +/- 150°/m
Speed 1 U/Minute
Temperature range
-40°C to +90°C 2000 cycles
+5°C to +90°C 5000 cycles
- ### Tests
- Flame retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
 - 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
 - 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
 - Ozone resistant to DIN EN 60811-403

Note

- AWG sizes are approximate equivalent values. The actual cross section is in mm².

Application

Halogen-free rubber tube cables are suited for medium mechanical stress in dry, damp and wet areas as well as outdoors. Can only be used in stagnant water (also in salt water) up to a water depth of 100 m (AD8) and at a water temperature of min. +5°C. Laying in tubes or similar closed systems the use of the cable is approved up to 1000 V ac-voltage or up to 750 V direct voltage against earth.

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

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
30737	1 x 1,5	5,7 - 7,1	14,4	51,0	16
30738	1 x 2,5	6,3 - 7,9	24,0	67,0	14
30739	1 x 4	7,2 - 9,0	38,0	92,0	12
30740	1 x 6	7,9 - 9,8	58,0	121,0	10
30741	1 x 10	9,5 - 11,9	96,0	186,0	8
30742	1 x 16	10,8 - 13,4	154,0	256,0	6
30743	1 x 25	12,7 - 15,8	240,0	368,0	4
30744	1 x 35	14,3 - 17,9	336,0	485,0	2
30745	1 x 50	16,5 - 20,6	480,0	668,0	1
30746	1 x 70	18,6 - 23,3	672,0	905,0	2/0
30747	1 x 95	20,8 - 26,0	912,0	1180,0	3/0
30748	1 x 120	22,8 - 28,6	1152,0	1460,0	4/0
30749	1 x 150	25,2 - 31,4	1440,0	1810,0	300 kcmil
30750	1 x 185	27,6 - 34,4	1776,0	2165,0	350 kcmil
30751	1 x 240	30,6 - 38,3	2304,0	2750,0	500 kcmil
30752	1 x 300	33,5 - 41,9	2880,0	3271,0	600 kcmil
30753	1 x 400	37,4 - 46,8	3840,0	4286,0	750 kcmil
30754	1 x 500	41,3 - 52,0	4800,0	5301,0	1000 kcmil
30755	1 x 630	45,5 - 57,0	6048,0	6959,0	1250 kcmil
30756	2 x 1	7,7 - 10,0	19,0	93,0	18
30757	2 x 1,5	8,5 - 11,0	29,0	115,0	16
30758	2 x 2,5	10,2 - 13,1	48,0	165,0	14

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
30759	2 x 4	11,8 - 15,1	77,0	225,0	12
30760	2 x 6	13,1 - 16,8	115,0	300,0	10
30761	2 x 10	17,7 - 22,6	192,0	550,0	8
30762	2 x 16	20,2 - 25,7	307,0	745,0	6
30763	2 x 25	24,3 - 30,7	480,0	1060,0	4
30764	3 G 1	8,3 - 10,7	29,0	120,0	18
30765	3 G 1,5	9,2 - 11,9	43,0	150,0	16
30766	3 G 2,5	10,9 - 14,0	72,0	200,0	14
30767	3 G 4	12,7 - 16,2	115,0	295,0	12
30768	3 G 6	14,1 - 18,0	173,0	380,0	10
30769	3 G 10	19,1 - 24,2	288,0	675,0	8
30770	3 G 16	21,8 - 27,6	461,0	950,0	6
30771	3 G 25	26,1 - 33,0	720,0	1355,0	4
30772	3 G 35	29,3 - 37,1	1008,0	1765,0	2
30773	3 G 50	34,1 - 42,9	1440,0	2415,0	1
30774	3 G 70	38,4 - 48,3	2016,0	3230,0	2/0
30775	3 G 95	43,3 - 54,0	2736,0	4225,0	3/0
30776	3 G 120	47,4 - 60,0	3456,0	5190,0	4/0
30777	3 G 150	52,0 - 66,0	4320,0	6415,0	300 kcmil
30778	3 G 185	57,0 - 72,0	5328,0	7700,0	350 kcmil
30779	3 G 240	65,0 - 82,0	6912,0	9458,0	500 kcmil
30780	3 G 300	72,0 - 90,0	8640,0	11635,0	600 kcmil

Continuation ▶

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Part no.	No.cores x cross-sec. mm²	Outer Ø min. - max. app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
30781	4 G 1	9,2 - 11,9	38,0	145,0	18
30782	4 G 1,5	10,2 - 13,1	58,0	175,0	16
30783	4 G 2,5	12,1 - 15,5	96,0	255,0	14
30784	4 G 4	14,0 - 17,9	154,0	355,0	12
30785	4 G 6	15,7 - 20,0	230,0	485,0	10
30786	4 G 10	20,9 - 26,5	384,0	845,0	8
30787	4 G 16	23,8 - 30,1	614,0	1185,0	6
30788	4 G 25	28,9 - 36,6	960,0	1730,0	4
30789	4 G 35	32,5 - 41,1	1344,0	2250,0	2
30790	4 G 50	37,7 - 47,5	1920,0	3085,0	1
30791	4 G 70	42,7 - 54,0	2688,0	4145,0	2/0
30792	4 G 95	48,4 - 61,0	3648,0	5465,0	3/0
30793	4 G 120	53,0 - 66,0	4608,0	6670,0	4/0
30794	4 G 150	58,0 - 73,0	5760,0	8290,0	300 kcmil
30795	4 G 185	64,0 - 80,0	7104,0	9385,0	350 kcmil

Part no.	No.cores x cross-sec. mm²	Outer Ø min. - max. app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
30796	5 G 1	10,2 - 13,1	48,0	180,0	18
30797	5 G 1,5	11,2 - 14,4	72,0	220,0	16
30798	5 G 2,5	13,3 - 17,0	120,0	310,0	14
30799	5 G 4	15,6 - 19,9	192,0	445,0	12
30800	5 G 6	17,5 - 22,2	288,0	605,0	10
30801	5 G 10	22,9 - 29,1	480,0	1035,0	8
30802	5 G 16	26,4 - 33,3	768,0	1465,0	6
30803	5 G 25	32,0 - 40,4	1200,0	2145,0	4
30804	5 G 35	35,7 - 45,1	1680,0	2579,0	2
30805	5 G 50	41,8 - 53,0	2400,0	3594,0	1
30806	5 G 70	47,5 - 60,0	3360,0	4837,0	2/0
30807	5 G 95	54,0 - 67,0	4560,0	6269,0	3/0
30808	7 G 1,5	14,7 - 18,7	101,0	355,0	16
30809	7 G 2,5	17,1 - 21,8	168,0	498,0	14
30810	12 G 1,5	17,6 - 22,4	173,0	505,0	16
30811	12 G 2,5	20,6 - 26,2	288,0	710,0	14

Dimensions and specifications may be changed without prior notice. (RF01)