

HELUPOWER® 1100-RZ1-K LSOH GREEN

flexible, direct burial, low smoke development, flame-retardant



HELUKABEL® HELUPOWER® 1100-RZ1-K (AS) LSOH GREEN CE

TECHNICAL DATA

Connection cable acc. to UNE 21123-4

Temperature range	flexible 0°C to +90°C fixed -15°C to +90°C
Permissible operating temperature of the conductor	+90°C
Short circuit temperature at the conductor	+250°C (Short circuit temperature max. 5 s)
Nominal voltage	AC U ₀ /U 600/1000 V
Max. permissible operating voltage	alternating current (AC) conductor/earth 700 V three-phase alternating current (AC) conductor/conductor 1200 V direct current (DC) conductor/earth 900 V direct current (DC) conductor/conductor 1800 V
Test voltage core/core	3500 V
Minimum bending radius	<25 mm: 4x Outer-ø 25-50 mm: 5x Outer-ø >50 mm: 6x Outer-ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: XLPE acc. to UNE-HD 603-1 (compound type DIX 3)
- Core identification acc. to DIN VDE 0293-308,
1 core(s): black
2 - 5 core(s): colour coded
- Protective conductor: starting with 3 cores,
G = with protective conductor GN-YE,
x = without protective conductor
- Cores stranded with optimal lay lengths
- Outer sheath: Polyolefin acc. to UNE 21123-4 (compound type DMZ-E)

- Sheath colour: green
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation
- for outdoor use
- direct burial
- halogen-free
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers
- reduced fire propagation, reduced release of corrosive and toxic gases

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
- bundle fire test acc. to DIN VDE 0482-332-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24 (Cat. C)
- 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
- UV-resistant acc. to UNE 211605
- CPR-class: C_{ca} s1b d1 a1

APPLICATION

Suitable for fixed power supply installations in public and commercial buildings or in power distribution networks where a high degree of safety is required. Suitable for indoor and outdoor use, for laying in tubes and pipes and suitable for direct burial.

NOTES

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

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.
11008092	2 x 1.5	16	9.0 - 10.4	28.8	105.0
11008093	3 G 1.5	16	9.5 - 10.8	43.2	120.0
11008094	3 x 1.5	16	9.5 - 10.8	43.2	120.0
11008095	4 G 1.5	16	10.2 - 11.6	57.6	142.0
11008096	4 x 1.5	16	10.2 - 11.6	57.6	142.0
11008097	5 G 1.5	16	11.0 - 12.4	72.0	165.0
11008098	5 x 1.5	16	11.0 - 12.4	72.0	165.0
11008118	2 x 2.5	14	9.8 - 11.3	48.0	137.0
11008119	3 G 2.5	14	10.3 - 11.8	72.0	161.0
11008120	3 x 2.5	14	10.3 - 11.8	72.0	161.0
11008121	4 G 2.5	14	11.1 - 12.7	96.0	195.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.
11008122	4 x 2.5	14	11.1 - 12.7	96.0	195.0
11008123	5 G 2.5	14	12.1 - 13.6	120.0	225.0
11008124	5 x 2.5	14	12.1 - 13.6	120.0	225.0
11008144	2 x 4	12	11.0 - 12.4	76.8	180.0
11008145	3 G 4	12	11.6 - 13.0	115.2	215.0
11008146	3 x 4	12	11.6 - 13.0	115.2	215.0
11008147	4 G 4	12	12.6 - 14.0	153.6	260.0
11008148	4 x 4	12	12.6 - 14.0	153.6	260.0
11008149	5 G 4	12	13.7 - 15.1	192.0	315.0
11008150	5 x 4	12	13.7 - 15.1	192.0	315.0
11008152	2 x 6	10	12.0 - 13.6	115.2	230.0

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11008153	3 G 6	10	12.6 - 14.3	172.8	280.0
11008154	3 x 6	10	12.6 - 14.3	172.8	280.0
11008155	4 G 6	10	13.8 - 15.5	230.4	350.0
11008156	4 x 6	10	13.8 - 15.5	230.4	350.0
11008157	5 G 6	10	15.1 - 16.8	288.0	420.0
11008158	5 x 6	10	15.1 - 16.8	288.0	420.0
11008159	1 x 10	8	8.1 - 9.4	96.0	140.0
11008160	2 x 10	8	14.2 - 15.7	192.0	350.0
11008161	3 G 10	8	14.9 - 16.5	288.0	435.0
11008162	3 x 10	8	14.9 - 16.5	288.0	435.0
11008163	4 G 10	8	16.3 - 17.9	384.0	615.0
11008164	4 x 10	8	16.3 - 17.9	384.0	615.0
11008165	5 G 10	8	17.8 - 19.5	480.0	725.0
11008166	5 x 10	8	17.8 - 19.5	480.0	725.0
11008167	1 x 16	6	9.1 - 10.4	153.6	195.0
11008168	2 x 16	6	16.2 - 17.5	307.2	575.0
11008169	3 G 16	6	17.2 - 18.4	460.8	700.0
11008170	3 x 16	6	17.2 - 18.4	460.8	700.0
11008171	4 G 16	6	19.0 - 20.1	614.4	880.0
11008172	4 x 16	6	19.0 - 20.1	614.4	880.0
11008173	5 G 16	6	20.8 - 22.0	768.0	1060.0
11008174	5 x 16	6	20.8 - 22.0	768.0	1060.0
11008175	1 x 25	4	10.9 - 12.0	240.0	285.0
11008176	2 x 25	4	19.7 - 20.8	480.0	880.0
11008177	3 G 25	4	20.9 - 22.0	720.0	1075.0
11008178	3 x 25	4	20.9 - 22.0	720.0	1075.0
11008179	4 G 25	4	23.0 - 24.0	960.0	1315.0
11008180	4 x 25	4	23.0 - 24.0	960.0	1315.0
11008181	5 G 25	4	25.3 - 26.6	1200.0	1590.0
11008182	5 x 25	4	25.3 - 26.6	1200.0	1590.0
11008183	1 x 35	2	12.3 - 13.2	336.0	380.0
11008184	2 x 35	2	22.2 - 23.5	672.0	1130.0
11008185	3 G 35	2	23.6 - 25.2	1008.0	1405.0
11008186	3 x 35	2	23.6 - 25.2	1008.0	1405.0
11008187	4 G 35	2	25.9 - 27.7	1344.0	1745.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.
11008188	4 x 35	2	25.9 - 27.7	1344.0	1745.0
11008189	5 G 35	2	28.6 - 30.6	1680.0	2100.0
11008190	5 x 35	2	28.6 - 30.6	1680.0	2100.0
11008191	1 x 50	1	13.8 - 14.9	480.0	520.0
11008192	2 x 50	1	25.6 - 26.8	960.0	1565.0
11008193	3 G 50	1	27.2 - 28.5	1440.0	1950.0
11008194	3 x 50	1	27.2 - 28.5	1440.0	1950.0
11008195	4 G 50	1	29.7 - 31.9	1920.0	2455.0
11008196	4 x 50	1	29.7 - 31.9	1920.0	2455.0
11008197	5 G 50	1	33.0 - 35.4	2400.0	2970.0
11008198	5 x 50	1	33.0 - 35.4	2400.0	2970.0
11008199	1 x 70	2/0	15.5 - 17.1	672.0	715.0
11008201	3 G 70	2/0	31.4 - 33.4	2016.0	2675.0
11008202	3 x 70	2/0	31.4 - 33.4	2016.0	2675.0
11008203	4 G 70	2/0	35.2 - 37.5	2688.0	3340.0
11008204	4 x 70	2/0	35.2 - 37.5	2688.0	3340.0
11008207	1 x 95	3/0	17.1 - 18.7	912.0	925.0
11008209	3 G 95	3/0	35.0 - 37.1	2736.0	3390.0
11008210	3 x 95	3/0	35.0 - 37.1	2736.0	3390.0
11008211	4 G 95	3/0	38.8 - 41.1	3648.0	4315.0
11008212	4 x 95	3/0	38.8 - 41.1	3648.0	4315.0
11008215	1 x 120	4/0	19.3 - 20.7	1152.0	1160.0
11008219	4 G 120	4/0	43.6 - 46.5	4608.0	5465.0
11008220	4 x 120	4/0	43.6 - 46.5	4608.0	5465.0
11008221	1 x 150	300 kcmil	21.1 - 22.8	1440.0	1460.0
11008225	4 G 150	300 kcmil	48.1 - 51.0	5760.0	6830.0
11008226	4 x 150	300 kcmil	48.1 - 51.0	5760.0	6830.0
11008227	1 x 185	350 kcmil	23.0 - 24.8	1776.0	1780.0
11008231	4 G 185	350 kcmil	53.0 - 57.0	7104.0	8575.0
11008232	4 x 185	350 kcmil	53.0 - 57.0	7104.0	8575.0
11008233	1 x 240	500 kcmil	26.3 - 27.6	2304.0	2300.0
11008237	4 G 240	500 kcmil	59.7 - 65.1	9216.0	11085.0
11008238	4 x 240	500 kcmil	59.7 - 65.1	9216.0	11085.0
11008239	1 x 300	600 kcmil	29.0 - 31.0	2880.0	2910.0