

HELUPOWER® 1100-RZ1-K LSOH GREEN



HELUKABEL HELUPOWER 1100 RZ1-K

BRIEF DESCRIPTION:

- flexible power cable
- halogen-free
- CPR: Cca – s1b d1 a1
- UV-resistant
- oil-resistant
- for AC & DC installations
- direct burial
- AENOR certified

TECHNICAL DATA

XLPE / LSOH- power cable acc. to UNE 21123-4

Temperature range	flexible 0°C to +80°C fixed installation -40°C to +90°C
Nominal voltage	U ₀ /U 600/1000 V
Test voltage	2000 V
Breakdown voltage	4000 V
Minimum bending radius	flexible 6 x cable outer Ø fixed installation < 25 mm: 4 x outer Ø 25 - 50 mm: 5 x outer Ø > 50 mm: 6 x outer Ø
CPR:	Cca - s1b d1 a1

Flame retardant acc. to

DIN 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

Flame test on bunched wires acc. to

DIN VDE 0482-332-3-24 / DIN 0332-3-24 / IEC 60332-3-24

CABLE STRUCTURE

- Bare copper conductor, finely stranded, acc. to DIN VDE 0295 cl.5/IEC 60228 cl.5
- Core insulation: XLPE acc. to UNE HD 603-1 (compound type DIX 3)
- Core identification acc. to HD 308 S2 and DIN VDE 0293-308
- Outer sheath: LSOH, extruded as filler with pressure
- Sheath colour: green
- Length marking: in metres

NOTES

Black outer sheath available on request.

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. Also suitable for indoor and outdoor use, for laying cable ducts and tubes, as well as for direct burial.

CE = Product complies to the Low-Voltage Directive 2014/95/EU.

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Copper weight kg / km	Weight app. kg / km
11008092	2 x 1,5	9,3	28,8	105
11008093	3 G 1,5	9,8	43,2	120
11008094	3 x 1,5	9,8	43,2	120
11008095	4 G 1,5	10,5	57,6	142
11008096	4 x 1,5	10,5	57,6	142
11008097	5 G 1,5	11,2	72,0	165
11008098	5 x 1,5	11,2	72,0	165
11008118	2 x 2,5	10,1	48,0	137
11008119	3 G 2,5	10,6	72,0	161
11008120	3 x 2,5	10,6	72,0	161
11008121	4 G 2,5	11,5	96,0	195
11008122	4 x 2,5	11,5	96,0	195
11008123	5 G 2,5	12,3	120,0	225
11008124	5 x 2,5	12,3	120,0	225
11008144	2 x 4	11,3	76,8	180
11008145	3 G 4	11,9	115,2	215
11008146	3 x 4	11,9	115,2	215
11008147	4 G 4	12,9	153,6	260
11008148	4 x 4	12,9	153,6	260
11008149	5 G 4	14,0	192,0	315
11008150	5 x 4	14,0	192,0	315
11008152	2 x 6	12,3	115,2	230
11008153	3 G 6	13,0	172,8	280
11008154	3 x 6	13,0	172,8	280
11008155	4 G 6	14,1	230,4	350
11008156	4 x 6	14,1	230,4	350
11008157	5 G 6	15,5	288,0	420
11008158	5 x 6	15,5	288,0	420
11008159	1 x 10	7,4	96,0	140
11008160	2 x 10	14,5	192,0	350
11008161	3 G 10	15,4	288,0	435
11008162	3 x 10	15,4	288,0	435
11008163	4 G 10	16,7	384,0	615
11008164	4 x 10	16,7	384,0	615
11008165	5 G 10	18,3	480,0	725
11008166	5 x 10	18,3	480,0	725
11008167	1 x 16	8,4	153,6	195
11008168	2 x 16	16,6	307,2	575
11008169	3 G 16	17,6	460,8	700
11008170	3 x 16	17,6	460,8	700
11008171	4 G 16	19,5	614,4	880
11008172	4 x 16	19,5	614,4	880
11008173	5 G 16	21,4	768,0	1060
11008174	5 x 16	21,4	768,0	1060
11008175	1 x 25	10,2	240,0	285
11008176	2 x 25	20,2	480,0	880

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Copper weight kg / km	Weight app. kg / km
11008177	3 G 25	21,5	720,0	1075
11008178	3 x 25	21,5	720,0	1075
11008179	4 G 25	23,5	960,0	1315
11008180	4 x 25	23,5	960,0	1315
11008181	5 G 25	26,0	1200,0	1590
11008182	5 x 25	26,0	1200,0	1590
11008183	1 x 35	11,6	336,0	380
11008184	2 x 35	23,0	672,0	1130
11008185	3 G 35	24,7	1008,0	1405
11008186	3 x 35	24,7	1008,0	1405
11008187	4 G 35	27,1	1344,0	1745
11008188	4 x 35	27,1	1344,0	1745
11008189	5 G 35	30,0	1680,0	2100
11008190	5 x 35	30,0	1680,0	2100
11008191	1 x 50	13,1	480,0	520
11008192	2 x 50	26,2	960,0	1565
11008193	3 G 50	27,9	1440,0	1950
11008194	3 x 50	27,9	1440,0	1950
11008195	4 G 50	31,2	1920,0	2455
11008196	4 x 50	31,2	1920,0	2455
11008197	5 G 50	34,7	2400,0	2970
11008198	5 x 50	34,7	2400,0	2970
11008199	1 x 70	14,9	672,0	715
11008201	3 G 70	32,3	2016,0	2675
11008202	3 x 70	32,3	2016,0	2675
11008203	4 G 70	36,1	2688,0	3340
11008204	4 x 70	36,1	2688,0	3340
11008207	1 x 95	16,5	912,0	925
11008209	3 G 95	35,8	2736,0	3390
11008210	3 x 95	35,8	2736,0	3390
11008211	4 G 95	39,7	3648,0	4315
11008212	4 x 95	39,7	3648,0	4315
11008215	1 x 120	18,5	1152,0	1160
11008219	4 G 120	45,1	4608,0	5465
11008220	4 x 120	45,1	4608,0	5465
11008221	1 x 150	20,4	1440,0	1460
11008225	4 G 150	49,6	5760,0	6830
11008226	4 x 150	49,6	5760,0	6830
11008227	1 x 185	22,3	1776,0	1780
11008231	4 G 185	55,0	7104,0	8575
11008232	4 x 185	55,0	7104,0	8575
11008233	1 x 240	25,7	2304,0	2300
11008237	4 G 240	63,5	9216,0	11085
11008238	4 x 240	63,5	9216,0	11085
11008239	1 x 300	29,2	2880,0	2910

■ CURRENT CARRYING CAPACITY

Nominal cross-section mm ²	in open air at 40°C A	in open air at 30°C A	in buried duct at 25°C (**) A
1x1,5	21	23	21
1x2,5	29	32	27,5
1x4	38	42	35
1x6	49	54	44
1x10	68	74	58
1x16	91	100	75
1x25	116	127	96
1x35	144	158	117
1x50	175	192	138
1x70	224	245	170
1x95	271	297	202
1x120	314	344	230
1x150	363	398	260
1x185	415	455	291
1x240	490	537	336
1x300	630	690	380
1x400	749	820	591
1x500	860	942	670
1x630	990	1084	740
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2x1,5	24	26	24
2x2,5	33	36	32
2x4	45	49	42
2x6	57	62	53
2x10	76	83	70
2x16	105	115	91
2x25	123	135	116
2x35	154	169	140
2x50	188	206	166
2x70	244	267	204
2x95	296	324	241
2x120	348	381	275
2x150	404	443	311
2x185	464	508	348
2x240	552	605	402
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3x1,5	24	26	21
3x2,5	33	36	27,5
3x4	45	49	35
3x6	57	62	44
3x10	76	83	58
3x16	105	115	75
3x25	110	120	96
3x35	137	150	117
3x50	167	183	138
3x70	214	234	170
3x95	259	284	202
3x120	301	330	230
3x150	343	376	260
3x185	391	428	291
3x240	468	513	336
3x300	547	599	380

Nominal cross-section mm ²	in open air at 40°C A	in open air at 30°C A	in buried duct at 25°C (**) A
4x1,5	20	22	21
4x2,5	26,5	29	27,5
4x4	36	39	35
4x6	46	50	44
4x10	65	71	58
4x16	87	95	75
4x25	110	120	96
4x35	137	150	117
4x50	167	183	138
4x70	214	234	170
4x95	259	284	202
4x120	301	330	230
4x150	343	376	260
4x185	391	428	291
4x240	468	513	336
4x300	547	599	380
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3x35+1x16	137	150	117
3x50+1x25	167	183	138
3x70+1x35	214	234	170
3x95+1x50	259	284	202
3x120+1x70	301	330	230
3x150+1x70	343	376	260
3x185+1x95	391	428	291
3x240+1x120	468	513	336
3x300+1x150	547	599	380
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5x1,5	20	22	21
5x2,5	26,5	29	27,5
5x4	36	39	35
5x6	46	50	44
5x10	65	71	58
5x16	87	95	75
5x25	110	120	96
5x35	137	150	117
5x50	167	183	138
5x70	214	234	170
5x95	259	284	202

Note:

- (**) Buried installation, directly or in tube, with standard thermal ground resistance of 2.5 K x m/W.
- Current carrying capacities for single core cables, are calculated assuming three load cables.
- Current carrying capacities for 3-/-4-/-5-core cables are calculated assuming three loaded conductors.
- Standard: UNE 20460; CENELEC HD 384 ; IEC 364.