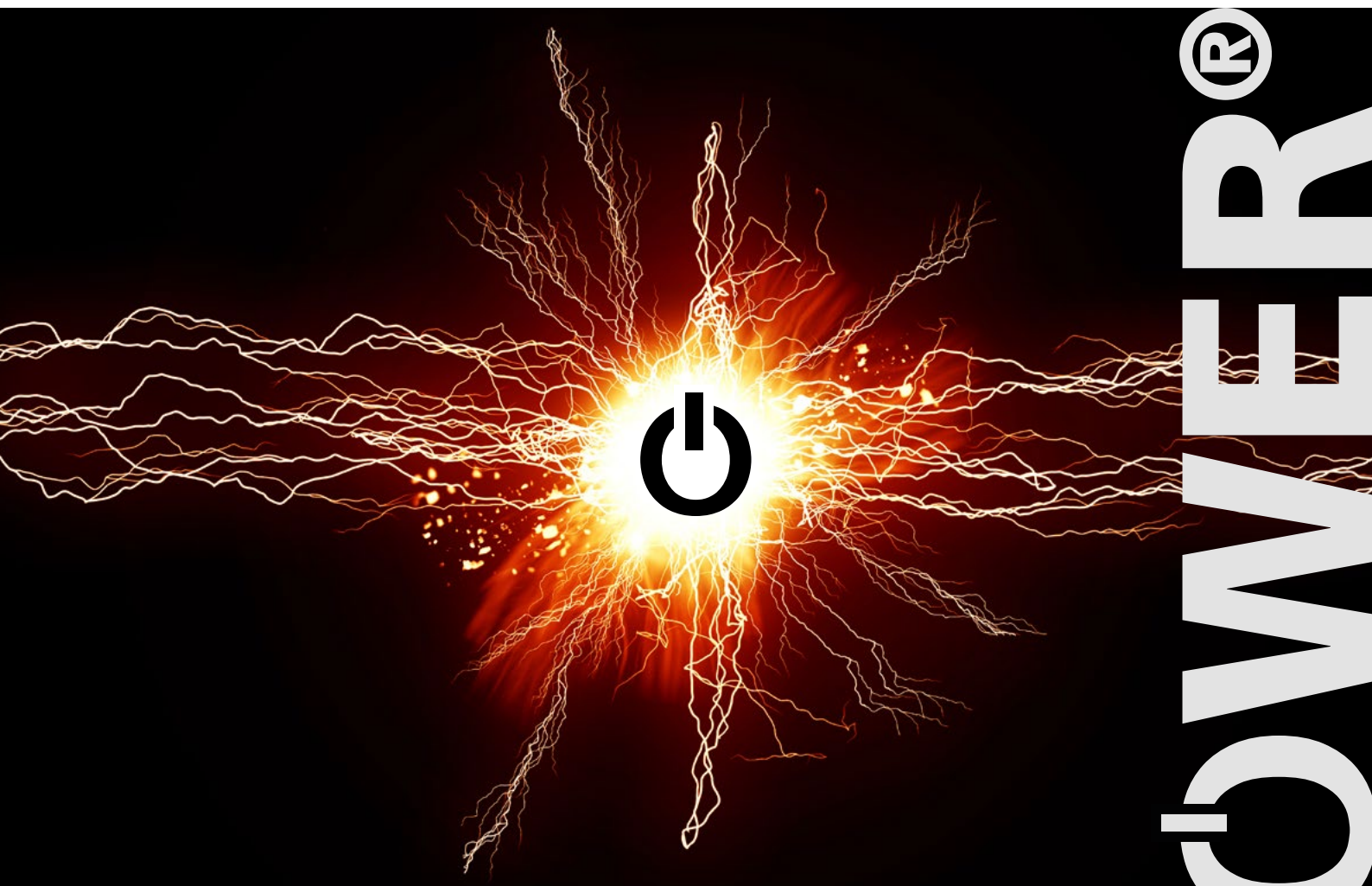




HELUKABEL®



HELUPOWER®

 The ultimate cables for power transmission

HELUPOWER® 1000 RV-K

HELUPOWER® 1100 RZ1-K

HELUPOWER® 1000 RV-K



BRIEF DESCRIPTION:

- flexible power cable
- XLPE core insulation
- UV-resistant
- oil-resistant
- for AC & DC installations
- direct burial
- torsion tested
- AENOR certified

TECHNICAL DATA

XLPE-/ PVC-power cables acc. to IEC 60502-1, UNE 21123-2

Temperature range	flexible -5°C to +90°C fixed installation -40°C to +90°C
Short circuit temperature	for 5 seconds +250°C
Nominal voltage (AC)	U ₀ /U 0,6/1 kV
Max. operating voltage (DC)	U ₀ /U 0,9/1,8 kV
Test voltage core/core	4000 V
Minimum bending radius	flexible 10 x outer Ø fixed installation < 25 mm: 4 x outer Ø 25 - 50 mm: 5 x outer Ø > 50 mm: 6 x outer Ø

Flame retardant acc. to
DIN 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

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:
≤ 5 cores: acc. to HD 308 S2, colour coded
≥ 6 cores: acc. to DIN EN 50334, black with consecutive number ring, white digits
- GN/YE with reduced cross-section at 3+1/2-types
- From 10 mm² with filler compound
- Outer sheath: PVC acc. to UNE-HD 603-1 (compound type DMV 18)
- Sheath colour black (RAL 9005)
- Length marking: in metre

NOTES

- G = with protective conductor GN-YE,
x = without protective conductor (OZ)
- R: XLPE-Insulation, V: PVC-sheath, K: finely stranded
- cross-sections with reduced protective conductor following AENOR

APPLICATION

This cable is designed for flexible multi purpose power supply connections, which can withstand medium mechanical stress with free movement. Suitable for use in dry, damp and wet rooms. Also suitable for direct burial, laying in tubes and underground installation areas. Typical application areas range from general production machinery to machine tool applications, conveyor belt systems, air-conditioning units, steel plants installations and factory automation. Ideal as a power or control cable, especially when elevated temperature and/or voltage is required. UV-resistant due to its special PVC sheathing compound and therefore also ideal as a power supply cable for outdoor mobile and portable devices and machinery. Alternatively also for use in stage and lighting technology and in the renewable energy sector.

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
11003798	1 x 1,5	4,9	14,4	50
11003799	2 x 1,5	8,5	28,8	145
11003800	3 G 1,5	9,0	43,2	165
11003801	3 x 1,5	9,0	43,2	165
11003802	4 G 1,5	9,7	57,6	190
11003803	4 x 1,5	9,7	57,6	190
11003804	5 G 1,5	10,5	72,0	215
11003805	5 x 1,5	10,5	72,0	215
11003806	7 G 1,5	11,5	100,8	300
11003807	7 x 1,5	11,5	100,8	300
11003808	10 G 1,5	13,2	144,0	390
11003809	10 x 1,5	13,2	144,0	390
11003810	12 G 1,5	14,6	172,8	440
11003811	12 x 1,5	14,6	172,8	440
11003812	16 G 1,5	16,3	230,4	550
11003813	16 x 1,5	16,3	230,4	550
11003816	19 G 1,5	17,5	273,6	620
11003817	19 x 1,5	17,2	273,6	620
11003818	24 G 1,5	20,1	345,6	760
11003819	24 x 1,5	20,1	345,6	760
11003822	1 x 2,5	5,3	24,0	65
11003823	2 x 2,5	9,3	48,0	195
11003824	3 G 2,5	9,8	72,0	210
11003825	3 x 2,5	9,8	72,0	210

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Copper weight kg / km	Weight app. kg / km
11003832	10 G 2,5	14,8	240,0	520
11003833	10 x 2,5	14,8	240,0	520
11003834	12 G 2,5	16,3	288,0	290
11003835	12 x 2,5	16,3	288,0	290
11003836	16 G 2,5	18,5	384,0	750
11003837	16 x 2,5	18,5	384,0	750
11003840	19 G 2,5	19,3	456,0	850
11003841	19 x 2,5	19,3	456,0	850
11003842	24 G 2,5	22,5	576,0	1040
11003843	24 x 2,5	22,5	576,0	1040
11003846	1 x 4	5,9	38,4	80
11003847	2 x 4	10,5	76,8	235
11003848	3 G 4	11,1	115,2	275
11003849	3 x 4	11,1	115,2	275
11003850	4 G 4	12,1	153,6	325
11003851	4 x 4	12,1	153,6	325
11003852	5 G 4	13,2	192,0	390
11003853	5 x 4	13,2	192,0	390
11003854	1 x 6	6,4	57,6	105
11003855	2 x 6	11,5	115,2	300
11003856	3 G 6	12,2	172,8	355
11003857	3 x 6	12,2	172,8	355
11003858	4 G 6	13,3	230,4	445
11003859	4 x 6	13,3	230,4	445

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Copper weight kg / km	Weight approx. kg / km
11003826	4 G 2,5	10,7	96,0	250
11003827	4 x 2,5	10,7	96,0	250
11003828	5 G 2,5	11,6	120,0	285
11003829	5 x 2,5	11,6	120,0	285
11003830	7 G 2,5	12,8	168,0	390
11003831	7 x 2,5	12,8	168,0	390
11003866	4 G 10	15,9	384,0	685
11003867	4 x 10	15,9	384,0	685
11003868	5 G 10	17,5	480,0	810
11003869	5 x 10	17,5	480,0	810
11003870	1 x 16	8,4	153,6	220
11003871	2 x 16	16,6	307,2	635
11003872	3 G 16	17,6	460,8	780
11003873	3 x 16	17,6	460,8	780
11003874	4 G 16	19,5	614,4	970
11003875	4 x 16	19,5	614,4	970
11003876	5 G 16	21,4	768,0	1150
11003877	5 x 16	21,4	768,0	1150
11003878	1 x 25	10,2	240,0	320
11003879	2 x 25	20,2	480,0	930
11003880	3 G 25	21,5	720,0	1160
11003881	3 x 25	21,5	720,0	1160
11003882	4 G 25	23,5	960,0	1450
11003883	4 x 25	23,5	960,0	1450
11003884	5 G 25	26,0	1200,0	1760
11003885	5 x 25	26,0	1200,0	1760
11003886	1 x 35	11,6	336,0	420
11003887	2 x 35	23,0	672,0	1220
11003888	3 G 35	24,7	1008,0	1535
11003889	3 x 35	24,7	1008,0	1535
11003890	4 G 35	27,1	1344,0	1960
11003891	4 x 35	27,1	1344,0	1960
11003892	5 G 35	30,0	1680,0	2345
11003893	5 x 35	30,0	1680,0	2345
11003894	1 x 50	13,1	480,0	560
11003895	2 x 50	26,2	960,0	1665
11003896	3 G 50	27,9	1440,0	2090
11003897	3 x 50	27,9	1440,0	2090
11003898	4 G 50	31,2	1920,0	2640
11003899	4 x 50	31,2	1920,0	2640
11003900	5 G 50	34,7	2400,0	3175
11003901	5 x 50	34,7	2400,0	3175
11003902	1 x 70	14,9	672,0	785
11003903	2 x 70	30,0	1344,0	2320
11003904	3 G 70	32,3	2016,0	2945
11003905	3 x 70	32,3	2016,0	2945
11003906	4 G 70	36,0	2688,0	3790
11003907	4 x 70	36,0	2688,0	3790
11003908	5 G 70	39,5	3360,0	4560
11003909	5 x 70	39,5	3360,0	4560
11003910	1 x 95	16,5	912,0	1050
11003911	2 x 95	33,4	1824,0	3025
11003912	3 G 95	35,8	2736,0	3925

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Copper weight kg / km	Weight approx. kg / km
11003860	5 G 6	14,7	288,0	515
11003861	5 x 6	14,7	288,0	515
11003862	1 x 10	7,4	96,0	155
11003863	2 x 10	13,7	192,0	460
11003864	3 G 10	14,6	288,0	560
11003865	3 x 10	14,6	288,0	560
11003913	3 x 95	35,8	2736,0	3925
11003914	4 G 95	39,7	3648,0	4985
11003915	4 x 95	39,7	3648,0	4985
11003916	5 G 95	44,7	4560,0	6035
11003917	5 x 95	44,7	4560,0	6035
11003918	1 x 120	18,5	1152,0	1305
11003919	2 x 120	37,8	2304,0	3845
11003920	3 G 120	40,3	3456,0	4905
11003921	3 x 120	40,3	3456,0	4905
11003922	4 G 120	45,0	4608,0	6255
11003923	4 x 120	45,0	4608,0	6255
11003924	1 x 150	20,4	1440,0	1610
11003925	2 x 150	41,6	2880,0	4720
11003926	3 G 150	44,6	4320,0	6055
11003927	3 x 150	44,6	4320,0	6055
11003928	4 G 150	49,6	5760,0	7775
11003929	4 x 150	49,6	5760,0	7775
11003930	1 x 185	22,3	1776,0	1985
11003931	2 x 185	45,6	3552,0	5910
11003932	3 G 185	49,0	5328,0	7570
11003933	3 x 185	49,0	5328,0	7570
11003934	4 G 185	55,0	7104,0	9640
11003935	4 x 185	55,0	7104,0	9640
11003936	1 x 240	25,7	2304,0	2610
11003937	2 x 240	53,0	4608,0	7665
11003938	3 G 240	56,8	6912,0	9865
11003939	3 x 240	56,8	6912,0	9865
11003940	4 G 240	63,5	9216,0	12585
11003941	4 x 240	63,5	9216,0	12585
11003942	1 x 300	29,2	2880,0	3225
11003943	3 G 300	64,7	8640,0	12120
11003944	3 x 300	64,7	8640,0	12120
11003945	4 G 300	71,0	11520,0	15475
11003946	4 x 300	71,0	11520,0	15475
11003947	1 x 400	32,4	3840,0	3500
11003948	1 x 400	32,4	3840,0	3500
11003949	1 x 500	36,9	4800,0	5060
11003950	1 x 630	42,0	6048,0	6760
11007951	3x35 + 1G16	25,0	1162,0	1425
11007952	3x50 + 1G25	28,9	1680,0	2045
11007953	3x70 + 1G35	34,1	2352,0	2832
11007954	3x95 + 1G50	37,6	3216,0	3628
11007955	3x120 + 1G70	43,0	4128,0	4706
11007956	3x150 + 1G70	46,8	4992,0	5747
11007957	3x185 + 1G95	51,3	6240,0	7174
11007958	3x240 + 1G120	58,6	8064,0	9300
11007959	3x300 + 1G150	65,7	10080,0	11945



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

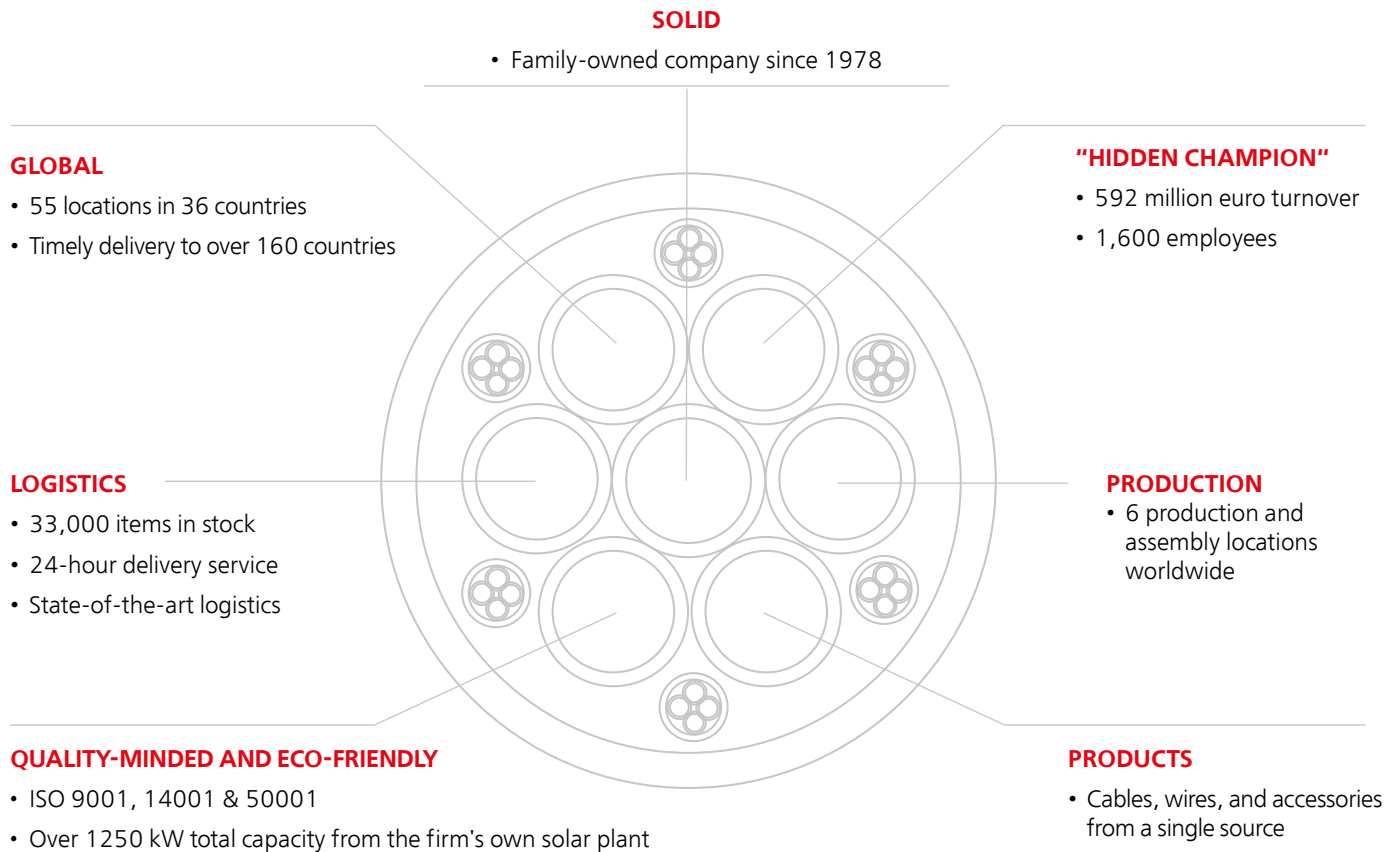
Nominal cross-section mm ²	in open air at 40°C A	in open air at 30°C A	in buried duct at 25°C (**) A
1x1,5	21	23	21
1x2,5	29	32	27,5
1x4	38	42	35
1x6	49	54	44
1x10	68	74	58
1x16	91	100	75
1x25	116	127	96
1x35	144	158	117
1x50	175	192	138
1x70	224	245	170
1x95	271	297	202
1x120	314	344	230
1x150	363	398	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.

■ WHAT SETS US APART



■ CONTACTS

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