

HELUPOWER® 1100 HMH SWA BLACK

halogen-free, XLPE core insulation / 90°C, flame-retardant / cat. A,
steel wire armoured / SWA, direct burial



HELUPOWER® 11000 HMH SWA BLACK CE

TECHNICAL DATA

Power-control cable base on IEC 60502-1

Temperature range	fixed -30°C to +90°C
Nominal voltage	U ₀ /U 0,6/1 kV
Test voltage	3,5 kV
Minimum bending radius	fixed 8x Ø cable

■ CABLE STRUCTURE

- Annealed copper wires, stranded class 2 or finely stranded class 5 (see table) acc. to DIN VDE0295 / IEC 60228
- Core insulation: XLPE
- Core identification acc. to HD 308
 - ≤ 5 core – color cores
 - ≥ 6 core – black cores with consecutive labeling in white digits
- G = with protective conductor GN-YE, in the outer layer, X = without protective conductor
- Cores stranded in layers with optimal lay lengths
- Separator: PET foil
- Inner sheath: halogen free compound
- Color inner sheath: black (RAL 9005)
- Armour: galvanized steel wire
- Sheath: halogen free compound
- Color sheath: black (RAL 9005)

■ PROPERTIES

- resistant to: UV radiation, weathering effects
- direct burial
- for indoor and outdoor use
- halogen free

■ TEST

- 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 0482-332-3-22 / DIN EN 60332-3-22 / IEC 60332-3-22
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+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
- UV-resistant acc. to DIN EN ISO 4892-2 / ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2 / ISO 4892-2

■ APPLICATION

Used as a power and control cable for indoor and outdoor installations requiring halogen-free, flame-retardant, UV resistance and protection against damage. The cable can be laid in cable ducts or directly in the ground. Direct laying in the ground may take place provided that the installation will be made in accordance with good installation practice – the cable should be laid on a special cable ballast ensuring a continuous drainage of water from the installation place. The cable buried in the ground mustn't be permanently exposed to water

■ NOTES

- We also offer cable glands PEPPERS UL-C
- Unarmored cables with similar parameters HELUPOWER® 1100 HMH BLACK

Continuation ►

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Stranded wire class 2 acc. to IEC 60228

Part no.	No. cores x cross-sec. mm ²	Outer Ø mm, approx.	Diameter under armour approx. mm	Cu-weight kg/km	Weight kg/km, approx
18191020	1 x 35	16,3	10,8	336,0	804,0
18191021	1 x 70	20,1	14,4	672,0	1284,0
18052148	1 x 95	22,0	15,7	912,0	1684,0
18052149	1 x 120	24,4	17,8	1152,0	2051,0
18052150	1 x 150	25,9	19,1	1440,0	2416,0
18052182	1 G 150	25,9	19,1	1440,0	2416,0
18052151	1 x 185	27,9	21,1	1776,0	2859,0
18052183	1 G 185	27,9	21,1	1776,0	2859,0
18052152	1 x 240	31,0	24,0	2304,0	3550,0
18052184	1 G 240	31,0	24,0	2304,0	3550,0
18052155	3 G 16	21,5	15,4	460,8	1202,0
18052185	3 G 25	25,6	18,8	720,0	1796,0
18052186	3 G 35	27,7	20,9	1008,0	2223,0
18191018	3 G 50	30,9	23,9	1440,0	2874,0
18052187	4 G 16	23,8	17,0	614,4	1559,0
18052188	4 G 25	27,6	20,8	960,0	2158,0
18052157	4 G 35	30,2	23,2	1344,0	2707,0
18052189	4 G 70	40,7	32,3	2688,0	5040,0
18052160	5 G 16	25,5	18,7	768,0	1825,0
18052161	5 G 25	29,9	22,9	1200,0	2545,0
18052162	5 G 35	32,8	25,6	1680,0	3217,0
18052163	5 G 50	38,2	29,8	2400,0	4546,0
18052164	5 G 70	44,3	35,7	3360,0	6027,0

Finely stranded wire class 5 acc. to IEC 60228

Part no.	No. cores x cross-sec. mm ²	Outer Ø mm, approx.	Diameter under armour approx. mm	Cu-weight kg/km	Weight kg/km, approx
18052190	2 x 1,5	13,5	7,9	28,8	329,8
18052191	3 G 1,5	13,7	8,4	43,2	359,7
18191016	4 x 2,5	15,4	10,2	96,0	478,7
18052153	3 G 2,5	14,5	9,3	72,0	423,4
18052196	3 G 4	15,8	10,6	115,2	513,9
18052154	3 G 6	17,9	11,8	172,8	734,4
18052199	3 G 10	19,9	13,8	288,0	943,6
18052192	4 G 1,5	14,4	9,2	57,6	399,7
18052193	4 G 2,5	15,4	10,2	96,0	478,7
18052197	4 G 4	17,7	11,6	153,6	707,4
18052198	4 G 6	19,1	13,0	230,4	850,3
18052156	4 G 10	21,3	15,2	384,0	1105,2
18052194	5 G 2,5	17,2	11,1	120,0	647,6
18190838	5 G 4	18,8	12,7	192,0	796,7
18052158	5 G 6	20,3	14,3	288,0	961,0
18052159	5 G 10	23,5	16,7	480,0	1564,0
18191017	7 x 2,5	18,2	12,1	168,0	747,0
18052195	10 G 2,5	21,6	15,5	240,0	962,3
18052165	24 x 2,5	29,1	22,2	576,0	1819,0