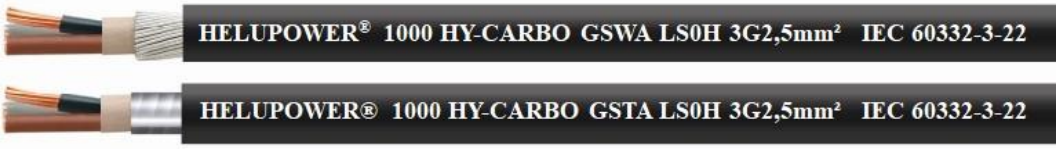
HELUPOWER® 1000 HY-CARBO GSWA LS0H

Halogen Free, Armoured, Hydrocarbon resistant Power & Control Cables in accordance to IEC 60502



Technichal Data

Halogenfree, Armoured Power & Control Cable in accordance to IEC 60502

Temperature range:
Fixed installation -40°C up to +90°C
Max short circuit temperature 250°C

Minimum bending radius
20 * overall cable diameter

Operating voltage
U_0 / U 0.6/1 kV

Test voltage
3500 V AC for 5min. accor. to IEC 60502-1
8400 V DC for 5min. Accor. to IEC 60502-1

Insulation resistance
> 100 MΩ x km

Notes

- Similar nominiation BS6724
- Other core identification upon request
- Other outer sheath color upon reques
- Conductor class 2 available upon request
- GSTA = Armour of dobble galvanized steel tape

Cable construction

- Bare copper conductor, flexible stranded in accor. DIN VDE 0295 cl. 5 / IEC60228 cl. 5
- Core insulation: XLPE accor. IEC 60502-1, BS 50290-2-29 and EN50363-0
- Core Ident-Code in accordance to HD 308 S2 (DIN VDE 0293-308)
- Inner sheath: HalogenFree compound (LS0H)
- Armouring:
  For Single Core-Cables AWA: Single layer of amagnetic aluminium wires
  For multicore-Cables GSTA: Single layer of galvanized steel wires with counter-spiral (if necessary)
- Outer sheath: Halogenfree, UV- , oil – and hydrocarbon resistant LS0H compound
- Outer sheath colour: Black (RAL 9005)

Mechanical Properties

- Halogen free
- Hydrocarbon resistant
- Oil resistant
- Flame retardant
- UV resistant

Tests

- Halogen free in accor. 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 in accor. to DIN VDE 482-332-1-2, DIN EN 60332-1-2, IEC 603323-1-2
- Flame test on bunched wires acc. to DIN VDE 0482-332-24 / DIN EN 60332-3-24 / IEC 60332-3-24 (Cat. C = 20min.)
- Flame test on bunched wires acc. to DIN VDE 0482-332-22 / DIN EN 60332-3-22 / IEC 60332-3-22 (Cat. A = 40min.)
- Smoke density accor. to DIN VDE 0482-1034-2 / DIN EN 61034-2 / IEC 61034-2
- UV-, Hydrocarbon & sun light resistant

Application

The **HELUPOWER® 1000 HY-CARBO GSWA LS0H** is a halogen free power and control cable with a reduced flame propagation and reduced emission of toxic/corrosive gases and opaque fumes in case of fire. The **HELUPOWER® 1000 HY-CARBO GSWA LS0H** is suitable for use in civil/industrial environment, in fixed lay also directly buried in ground without protection.

CE = Product complies to the Low-Voltage Directive 2014/35/EU.

Part-Nº.	Core count x cross-section in mm²	Conductor resistance @ 20°C	Current rating (A) @ 30°C	Current rating (A) directly burried @ 20°C	Under armour diameter approx. mm	Outer-Ø approx. mm	Cu-weight kg / km	Cable weight approx. kg / km
17003950	1x1,5	13.3	24	24	5.0	10.4	14,4	210
17003951	1x2,5	7.98	33	31	5.4	10.8	24	230
17003952	1x4	4.95	45	40	6.0	11.4	38,4	269
17003953	1x6	3.3	58	51	6.5	11.9	57,6	297
17003954	1x10	1.91	80	68	7.4	12.8	96	359
17003955	1x16	1.21	107	89	8.5	13.9	153,6	448
17003956	1x25	0.78	141	115	10.5	15.9	240	590
17003957	1x35	0.554	176	139	11.8	17.2	336	718
17003961	1x50	0.386	216	173	13.7	20.4	480	1044
17003962	1x70	0.272	279	212	15.4	22.1	672	1279
17003963	1x95	0.206	342	250	16.7	23.4	912	1537
17003964	1x120	0.161	400	289	19.2	26.6	1152	2004
17003965	1x150	0.129	464	330	21.5	28.9	1440	2371
17003966	1x185	0.106	533	371	23.7	31.1	1776	2753
17003967	1x240	0.0801	634	436	26.4	34.2	2304	3395
17003968	1x300	0.0641	736	493	28.6	36.4	2880	4017
17003969	1x400	0.0486	868	575	33.4	42.4	3840	5408
17005595	1x500	0.0384	-	-	37.4	46.6	4800	6559
17005596	1x630	0.0287	-	-	42.5	51.9	6048	8287

Continuation ►

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17003970	2x1,5	13.3	23	22	8.0	13.4	28,8	348
17003971	2x2,5	7.98	32	29	8.8	14.2	48	394
17003972	2x4	4.95	42	37	10.0	15.4	76,8	479
17003973	2x6	3.3	54	47	11.0	16.4	115,2	552
17003974	2x10	1.91	75	63	12.8	19.5	192	832
17003975	2x16	1.21	100	83	15.0	21.7	307,2	1057
17003976	2x25	0.78	127	107	19.0	26.4	480	1609
17003977	2x35	0.554	158	131	21.6	29.0	672	1960
17003978	2x50	0.386	192	162	25.4	32.8	960	2520
17003979	2x70	0.272	246	200	28.8	36.8	1344	3167
17003980	3G1,5	13.3	23	22	8.5	13.9	43,2	373
17003981	3G2,5	7.98	32	29	9.3	14.7	72	431
17003982	3G4	4.95	42	37	10.6	16.0	115,2	532
17003983	3G6	3.3	54	47	11.7	17.1	172,8	621
17003984	3G10	1.91	75	63	13.7	20.4	288	945
17003985	3G16	1.21	100	83	16.0	22.7	460,8	1227
17003986	3G25	0.78	127	107	20.4	27.8	720	1873
17003987	3G35	0.554	158	131	23.2	30.6	1008	2301
17003988	3G50	0.386	192	162	27.3	35.1	1440	3007
17003989	3G70	0.272	246	200	31.3	40.1	2016	4128
17003990	3G95	0.206	298	237	34.2	43.4	2736	5008
17003991	3G120	0.161	346	274	39.6	49.0	3456	6207
17003992	3G150	0.129	399	313	44.9	55.7	4320	8029
17003993	3G185	0.106	456	352	49.7	60.7	5328	9456
17003994	3G240	0.0801	538	414	55.9	67.3	6912	11777
17003995	3G300	0.0641	621	-	60.7	72.5	8640	13971
17003996	3G400	0.0486			62.3	76.2	11520	18264
17004010	4G1,5	13.3	23	22	9.3	14.7	57,6	417
17004011	4G2,5	7.98	32	29	10.2	15.6	96	486
17004012	4G4	4.95	42	37	11.	17.1	153,6	607
17004013	4G6	3.3	54	47	12.9	19.6	230,4	852
17004014	4G10	1,91	75	63	15.1	21.8	384	1102
17004015	4G16	1.21	100	83	17.7	25.1	614,4	1581
17004016	4G25	0.78	127	107	22.6	30.0	960	2204
17005428	4G35	0.554	158	131	25.7	33.3	1344	2753
17005429	4G50	0.386	192	162	30.3	38.3	1920	3624
17005430	4G70	0.272	246	200	34.8	44.0	2688	4990
17005431	4G95	0.206	298	237	38.0	47.4	3648	6088
17005588	3x25+1G16	0,78 / 1,21	127	107	21.9	29.1	866	2124
17004017	3x35+1G25	0,554 / 0,78	158	131	24.9	32.3	1248	2608
17004018	3x50+1G25	0,386 / 0,78	192	162	28.4	36.2	1680	3246
17004019	3x70+1G35	0,272 / 0,554	246	200	32.7	41.7	2352	4494
17004020	3x95+1G50	0,206 / 0,386	298	237	36.2	45.4	3216	5554
17004021	3x120+1G70	0,161 / 0,272	346	274	41.7	51.3	4128	6898

Continuation ►

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17004022	3x150+1G95	0,129 / 0,206	399	313	47.1	57.9	5232	8926
17004023	3x185+1G95	0,106 / 0,206	456	352	51.1	62.3	6240	10242
17004024	3x240+1G150	0,0801 /0,129	538	414	59.3	70.9	8352	13251
17004025	3x300+1G150	0,0641 /0,129	621	-	63.3	75.1	10080	15261
17004026	3x400+1G150			-		81,2	12672	18550
17004030	5G1,5	13.3	23	22	10,1	15.5	72	463
17004031	5G2,5	7.98	32	29	11,2	16.6	120	553
17004032	5G4	4.95	42	37	12.8	19.5	192	823
17004033	5G6	3.3	54	47	14.2	20.9	288	969
17004034	5G10	1.91	75	63	16.6	23.3	480	1259
17004027	5G16	1.21	100	83	19.6	27.0	768	1843
17004028	5G25	0.78	127	107	25.0	32.4	1200	2580
17004029	5G35	0.554	158	131	28.5	36.3	1680	3261
17004035	5G50	0.386	192	162	34.0	43,0	2400	4657
17004036	5G70	0.272	246	200	38.6	48.0	3360	5929
17004037	5G95	0.206	298	237	42.5	53.1	4560	7790
17004038	5G120	0.161	346	274	49.2	60.2	5760	9634
17004039	5G150	0.129	399	313	55.5	66.9	7200	11658
17004040	7G1,5	13.3	13	16	11.0	16.4	84	100,8
17004042	10G1,5	13.3	13	16	14.0	20.7	121	144
17004044	12G1,5	13.3	11	12.5	14.5	21.2	145	172,8
17004046	16G1,5	13.3	11	12.5	16.1	22.8	193	230,4
17004048	19G1,5	13.3	9	11.5	17.0	23.7	229	273,6
17004050	24G1,5	13.3	9	11.5	20.0	27.4	290	345,6
17004052	27G1,5	13.3	-	-	20.5	27.9	326	388,8
17004054	37G1,5	13.3	-	-	23.0	30.4	447	532,8
17004041	7G2,5	7.98	17.5	21	12.2	18.3	144	168
17004043	10G2,5	7.98	17.5	21	15.6	22.3	205	240
17004045	12G2,5	7.98	13.5	17.5	16.1	22.8	246	288
17004047	16G2,5	7.98	13.5	17.5	18.0	25.4	329	384
17004049	19G2,5	7.98	12	14	19.0	26.4	390	456
17004051	24G2,5	7.98	12	14	22.4	29.8	493	576
17004053	27G2,5	7.98	-	-	22.9	30.3	555	648
17004055	37G2,5	7.98	-	-	25.8	33.4	760	888

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