

HELUPOWER® 1000 HY-CARBO

hydrocarbon resistant Power & Control cable 0.6/1 kV in acc. to IEC 60502



HELUPOWER® 1000 HY-CARBO CE

Technical data

- LSLH Power & Control cable acc. to IEC 60502
- **Temperature range**
flexing -5°C to +50°C
fixed installation -20°C to +90°C
short circuit temperature max. 250°C
- **Nominal voltage**
U₀/U 0,6/1 kV
- **Test voltage**
3500 V AC for 5 min.
8400 V DC for 5 min.
- **Minimum bending radius**
fixed 12 x cable Ø
- **Insulation resistance**
> 100 MΩxkm

Cable structure

- Bare copper conductor, multiple wired acc. to DIN VDE 0295 cl. 2 / IEC 60228 cl. 2
- Core insulation: XLPE acc. to IEC 60502-1, BS 50290-2-29 and EN 50363-0
- Core identification acc. to HD 308 S2
- Inner sheath: PVC
- Outer sheath: hydrocarbon resistant PVC
- Outer sheath colour: black

Properties

- Hydrocarbon resistant
- Oil resistant
- Flame retardant
- Low Smoke Low Halogen (LSLH)
- Suitable for direct burial
- UV resistant

Tests

- Flame retardant acc. to DIN VDE 482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
- Flame test on bunched wires acc. to DIN VDE 0482-332-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24 (Cat. C, 20 min.)
- Flame test on bunched wires acc. to DIN VDE 0482-332-3-22 / DIN EN 60332-3-22 / IEC 60332-3-22 (Cat. A, 40 min.)
- Low amount of halogen acid gas acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- UV and sunlight resistant acc. to UL 1581 sect. 1200

Note

- Similar denomination RVFV or BS 6346
- Other core identification upon request

Application

The HELUPOWER® 1000 HY-CARBO is a 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 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.	No. cores x cross-sec. mm ²	Conductor resistance at 20°C	Current rating (A) in air at 30°C	Current rating (A) directly buried at 20°C, $\rho = 1,5$ K*m/W	Diameter under armour approx. mm	Outer Ø app. mm	Copper weight kg / km	Weight app. kg / km
17001900	2 x 1,5	12,100	26,0	26,0	0,0	11,6	26,0	191
17001901	2 x 2,5	7,410	36,0	35,0	0,0	12,4	43,0	228
17001902	2 x 4	4,610	49,0	45,0	0,0	13,6	69,0	289
17001903	2 x 6	3,100	63,0	56,0	0,0	14,6	104,0	352
17001904	2 x 10	1,830	86,0	76,0	0,0	16,6	175,0	488
17001905	2 x 16	1,150	115,0	99,0	0,0	18,6	278,0	661
17001906	2 x 25	0,727	149,0	128,0	0,0	22,0	440,0	963
17001907	2 x 35	0,524	185,0	156,0	0,0	24,2	610,0	1229
17001908	2 x 50	0,387	225,0	193,0	0,0	27,2	826,0	1593

Continuation ▶

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Part no.	No.cores x cross-sec. mm ²	Conductor resistance at 20°C	Current rating (A) in air at 30°C	Current rating (A) directly buried at 20°C, $\rho = 1,5$ K+m/W	Diameter under armour approx. mm	Outer Ø app. mm	Copper weight kg / km	Weight app. kg / km
17001909	2 x 70	0,268	0,0	0,0	0,0	31,2	1193,0	2168
17001910	3 x 1,5	12,100	10,0	22,0	0,0	12,1	40,0	212
17001911	3 x 2,5	7,410	23,0	29,0	0,0	12,9	65,0	256
17001912	3 x 4	4,610	42,0	37,0	0,0	14,2	104,0	330
17001913	3 x 6	3,100	54,0	47,0	0,0	15,3	156,0	411
17001914	3 x 10	1,830	75,0	63,0	0,0	17,5	262,0	584
17001915	3 x 16	1,150	100,0	83,0	0,0	19,6	417,0	803
17001916	3 x 25	0,727	127,0	107,0	0,0	23,3	659,0	1187
17001917	3 x 35	0,524	158,0	131,0	0,0	25,7	915,0	1536
17001918	3 x 50	0,387	192,0	162,0	0,0	28,9	1238,0	1999
17001919	3 x 70	0,268	246,0	200,0	0,0	33,8	1790,0	2814
17001920	3 x 95	0,193	298,0	237,0	0,0	38,2	2483,0	3754
17001921	3 x 120	0,153	346,0	274,0	0,0	42,0	3114,0	4619
17001922	3 x 150	0,124	399,0	313,0	0,0	47,4	3871,0	5806
17001923	3 x 185	0,099	456,0	352,0	0,0	52,3	4835,0	7154
17001924	3 x 240	0,075	538,0	414,0	0,0	59,2	6383,0	9326
17001925	3 x 300	0,060	621,0	0,0	0,0	65,2	7971,0	11488
17001926	3 x 400	0,047	0,0	0,0	0,0	67,8	10210,0	11190
17001930	4 x 1,5	12,100	23,0	22,0	0,0	12,9	53,0	244
17001931	4 x 2,5	7,410	32,0	29,0	0,0	13,8	86,0	298
17001932	4 x 4	4,610	42,0	37,0	0,0	15,3	139,0	392
17001933	4 x 6	3,080	54,0	47,0	0,0	16,5	208,0	493
17001934	4 x 10	1,830	75,0	63,0	0,0	18,9	349,0	706
17001935	4 x 16	1,150	100,0	83,0	0,0	21,3	556,0	986
17001936	4 x 25	0,727	127,0	107,0	0,0	25,4	879,0	1465
17001937	4 x 35	0,524	158,0	131,0	0,0	28,1	1220,0	1897
17001938	4 x 50	0,387	192,0	162,0	0,0	31,9	1651,0	2497
17001939	4 x 70	0,268	246,0	200,0	0,0	37,4	2387,0	3535
17001940	4 x 95	0,193	298,0	237,0	0,0	42,2	3310,0	4719
17001941	4 x 120	0,153	346,0	274,0	0,0	47,1	4152,0	5903
17001942	4 x 150	0,124	399,0	313,0	0,0	52,4	5162,0	7306
17001943	4 x 185	0,099	456,0	352,0	0,0	58,1	6446,0	9047
17001944	4 x 240	0,075	538,0	414,0	0,0	65,7	8510,0	11796
17001945	4 x 300	0,060	621,0	0,0	0,0	72,4	10627,0	14551
17001946	4 x 400	0,047	0,0	0,0	0,0	78,6	13609,0	18514
17001997	5 x 1,5	12,100	23,0	22,0	0,0	13,7	66,0	277
17001998	5 x 2,5	7,410	32,0	29,0	0,0	14,8	108,0	347
17001999	5 x 4	4,610	42,0	37,0	0,0	16,4	173,0	457
17002056	5 x 6	3,080	54,0	47,0	0,0	17,8	259,0	584
17002057	5 x 10	1,830	75,0	63,0	0,0	20,5	437,0	846
17002058	5 x 16	1,150	100,0	83,0	0,0	23,2	694,0	1191
17002059	5 x 25	0,727	127,0	107,0	0,0	27,7	1099,0	1771
17001977	5 x 35	0,524	158,0	131,0	0,0	30,7	1524,0	2318
17001978	5 x 50	0,387	192,0	162,0	0,0	35,6	2064,0	3125
17001979	5 x 70	0,268	0,0	0,0	0,0	41,2	2983,0	4332
17002196	5 x 95	0,193	0,0	0,0	0,0	47,1	4138,0	5865
17002197	5 x 120	0,153	0,0	0,0	0,0	51,9	5190,0	7242
17002198	5 x 150	0,124	0,0	0,0	0,0	58,0	6452,0	8999
17001927	7 x 1,5	12,100	13,0	16,0	0,0	14,6	93,0	310
17001928	10 x 1,5	12,100	13,0	16,0	0,0	17,6	132,0	412
17001929	12 x 1,5	12,100	11,0	13,0	0,0	18,1	159,0	456
17001947	16 x 1,5	12,100	11,0	13,0	0,0	19,7	212,0	560
17001948	19 x 1,5	12,100	9,0	12,0	0,0	20,6	251,0	622
17001949	24 x 1,5	12,100	9,0	12,0	0,0	23,6	317,0	761
17001950	27 x 1,5	12,100	0,0	0,0	0,0	24,1	357,0	813
17001951	37 x 1,5	12,100	0,0	0,0	0,0	26,6	489,0	1032
17001952	7 x 2,5	7,410	18,0	21,0	0,0	15,8	151,0	394
17001953	10 x 2,5	7,410	18,0	21,0	0,0	19,2	216,0	531
17001954	12 x 2,5	7,410	14,0	18,0	0,0	19,7	259,0	593
17001955	16 x 2,5	7,410	14,0	18,0	0,0	21,6	345,0	742
17001956	19 x 2,5	7,410	12,0	14,0	0,0	22,6	410,0	831
17001957	24 x 2,5	7,410	12,0	14,0	0,0	26,0	518,0	1022
17001958	27 x 2,5	7,410	0,0	0,0	0,0	26,5	583,0	1100
17001959	37 x 2,5	7,410	0,0	0,0	0,0	29,4	798,0	1417

Dimensions and specifications may be changed without prior notice.