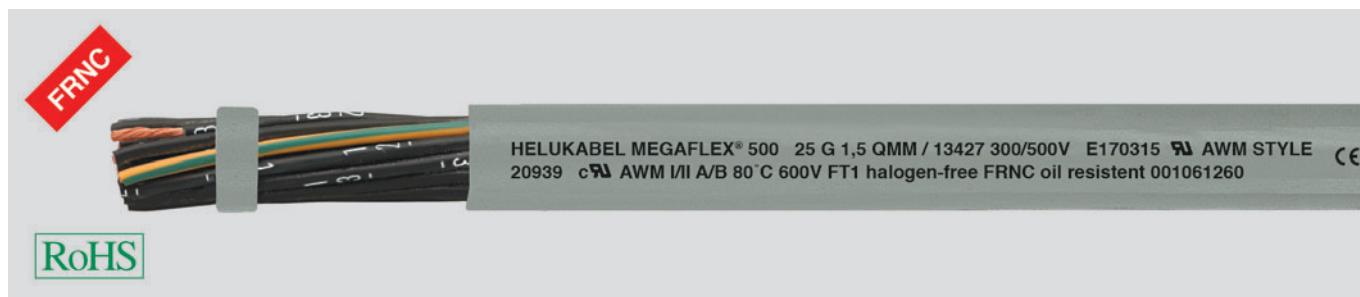


MEGAFLEX® 500

halogen-free, flame retardant, oil-resistant,
UV-resistant, flexible, meter marking



A



Technical data

- Halogen-free flexible control cable, core-structure adapted to DIN VDE 0281 part 14, to UL-Style 20939, UL-Std. 758
- **Temperature range**
flexing -30 °C to +80 °C
fixed installation -40 °C to +80 °C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** 3000 V
- **Minimum bending radius**
flexing approx. 10x cable \varnothing
fixed installation approx. 4x cable \varnothing
- **Flexible**
Alternate bending test according to DIN VDE 0281-2

Cable structure

- Bare copper, fine wire conductors, to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Core insulation of halogen-free special polymer
- Black cores with white continuous numbering to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layer with optimal lay-length
- Outer sheath, halogen-free special polymer
- Outer jacket colour grey (RAL 7001)
- with meter marking, change-over in 2011
- The materials used in manufacture are cadmium-free and contain no silicone and are free from substances harmful to the wetting properties of lacquers
- **LSOH** = Low Smoke Zero Halogen-free.

Properties

- Halogen-free
- Highly flame-retardant
- Resistant to oils and greases
- Resistant to UV and weathering
- Hydrolysis resistant
- Flexible, abrasion- and wear-resistant
- Ozone-resistant
- Recyclable

Tests

- Flame test to VDE 0482-332-3/ BS 4066 part 3/
DIN EN 60332-3/ IEC 60332-3-24 (previously DIN VDE 0472 part 804 test method C)
- Self-extinguishing and flame retardant according to DIN VDE 0482-332-1-2, DIN EN/IEC 60332-1 (previously DIN VDE 0472 part 804 test method B)
- Corrosiveness of combustion gases according to NF X 10-702
- Halogen-free according to DIN VDE 0482 part 267/ EN 50267-2-1/ IEC 60754-1 (equivalent DIN VDE 0472 part 815)
- Smoke density according to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2/ IEC 61034-1+2, BS 7622 part 1+2 (previously DIN VDE 0472 part 816)
- Oil-resistant to DIN EN 60811-2-1
- Hydrolysis-resistant to DIN EN 61234-1
- Ozone-resistant to DIN EN 60811-2-1 / DIN VDE 0281-2

Note

- G = with green-yellow earth core;
x = without green-yellow earth core (OZ).
- Also available as a 0,6/1 kV cable under consideration of economical minimum quantities. MEGAFLEX® 600
- **screened analogue type:**
MEGAFLEX® 500-C, see page A 73, N 56



Approved to UL/CSA
see section N, page N 54

Application

For fixed installation or flexible application, with free movements without forcing which do not constantly recur and without tensile stress, for high mechanical strain. As a measuring and control cable primarily in machinery and plant construction, in building and air-conditioning systems, in warehousing and conveying systems, in ship-building and for regenerative types of energy such as in the construction of wind power stations. Especially well-suited for use in public buildings, such as airports and train stations, where personal injuries and subsequent damage must be prevented in the event of a fire. **CE** The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
13344	2 x 0,5	4,8	9,6	43,0	20
13345	3 G 0,5	5,1	14,4	50,0	20
13346	3 x 0,5	5,1	14,4	50,0	20
13347	4 G 0,5	5,7	19,0	60,0	20
13348	4 x 0,5	5,7	19,0	60,0	20
13349	5 G 0,5	6,2	24,0	71,0	20
13350	5 x 0,5	6,2	24,0	71,0	20
13351	7 G 0,5	7,4	33,6	84,0	20
13352	8 G 0,5	8,0	38,0	101,0	20
13353	10 G 0,5	8,8	48,0	121,0	20
13354	12 G 0,5	9,1	58,0	142,0	20
13355	16 G 0,5	10,0	76,0	183,0	20

Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
13356	18 G 0,5	10,7	86,0	204,0	20
13357	20 G 0,5	11,2	96,0	227,0	20
13359	25 G 0,5	12,7	120,0	283,0	20
13360	30 G 0,5	13,5	144,0	324,0	20
13361	34 G 0,5	14,5	163,0	367,0	20
13362	37 G 0,5	15,0	178,0	381,0	20
13363	41 G 0,5	15,8	197,0	417,0	20
13364	42 G 0,5	15,8	202,0	454,0	20
13365	50 G 0,5	17,3	240,0	519,0	20
13366	61 G 0,5	19,4	293,0	635,0	20
13367	65 G 0,5	19,4	312,0	694,0	20

Continuation ►

MEGAFLEX® 500

halogen-free, flame retardant, oil-resistant,
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Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
13368	2 x 0,75	5,2	14,4	47,0	19
13369	3 G 0,75	5,5	21,6	56,0	19
13370	3 x 0,75	5,5	21,6	56,0	19
13371	4 G 0,75	6,2	29,0	69,0	19
13372	4 x 0,75	6,2	29,0	69,0	19
13373	5 G 0,75	6,8	36,0	83,0	19
13374	5 x 0,75	6,8	36,0	83,0	19
13375	7 G 0,75	8,1	50,0	114,0	19
13376	7 x 0,75	8,1	50,0	114,0	19
13377	8 G 0,75	8,9	58,0	136,0	19
13378	10 G 0,75	9,6	72,0	172,0	19
13379	12 G 0,75	9,9	86,0	183,0	19
13380	16 G 0,75	11,2	115,0	241,0	19
13381	18 G 0,75	11,9	130,0	266,0	19
13382	20 G 0,75	12,6	144,0	291,0	19
13383	25 G 0,75	14,1	180,0	374,0	19
13384	30 G 0,75	15,4	216,0	450,0	19
13385	34 G 0,75	16,4	245,0	517,0	19
13386	37 G 0,75	17,2	260,0	541,0	19
13387	41 G 0,75	17,6	296,0	611,0	19
13388	42 G 0,75	17,6	302,0	621,0	19
13389	50 G 0,75	19,8	360,0	742,0	19
13390	61 G 0,75	20,9	439,0	853,0	19
13392	65 G 0,75	21,5	468,0	909,0	19
13393	2 x 1	5,5	19,2	63,0	18
13394	3 G 1	6,0	29,0	74,0	18
13395	3 x 1	6,0	29,0	74,0	18
13396	4 G 1	6,6	38,4	90,0	18
13397	4 x 1	6,6	38,4	90,0	18
13398	5 G 1	7,2	48,0	109,0	18
13399	7 G 1	8,6	67,0	151,0	18
13400	8 G 1	9,4	77,0	184,0	18
13401	10 G 1	10,4	96,0	224,0	18
13402	12 G 1	10,7	115,0	243,0	18
13403	16 G 1	12,0	154,0	314,0	18
13404	18 G 1	12,7	173,0	361,0	18
13405	20 G 1	13,5	192,0	387,0	18
13406	25 G 1	15,2	240,0	496,0	18
13407	34 G 1	17,4	326,0	670,0	18
13408	37 G 1	18,4	355,0	713,0	18
13409	41 G 1	18,9	394,0	784,0	18
13410	42 G 1	18,9	403,0	824,0	18
13411	50 G 1	21,0	480,0	952,0	18
13412	61 G 1	22,2	586,0	1140,0	18
13413	65 G 1	22,8	628,0	1201,0	18
13414	2 x 1,5	6,1	29,0	70,0	16
13415	3 G 1,5	6,5	43,0	94,0	16
13416	3 x 1,5	6,5	43,0	94,0	16
13417	4 G 1,5	7,2	58,0	112,0	16
13418	5 G 1,5	7,9	72,0	141,0	16
13419	7 G 1,5	9,5	101,0	191,0	16
13420	8 G 1,5	10,4	115,0	224,0	16
13421	10 G 1,5	11,3	144,0	282,0	16
13422	12 G 1,5	11,7	173,0	311,0	16
13423	16 G 1,5	13,3	230,0	392,0	16
13425	18 G 1,5	14,0	259,0	450,0	16
13426	20 G 1,5	14,9	288,0	497,0	16
13427	25 G 1,5	16,8	360,0	630,0	16
13428	34 G 1,5	19,4	490,0	842,0	16
13429	37 G 1,5	20,2	533,0	897,0	16
13430	50 G 1,5	23,4	720,0	1277,0	16
13431	61 G 1,5	24,8	878,0	1460,0	16
13432	65 G 1,5	26,0	936,0	1612,0	16

Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
13433	2 x 2,5	7,6	48,0	118,0	14
13434	3 G 2,5	8,3	72,0	151,0	14
13435	4 G 2,5	9,1	96,0	181,0	14
13436	5 G 2,5	10,2	120,0	224,0	14
13437	7 G 2,5	12,1	168,0	316,0	14
13438	8 G 2,5	13,2	192,0	370,0	14
13439	10 G 2,5	14,6	240,0	451,0	14
13440	12 G 2,5	15,2	288,0	499,0	14
13441	16 G 2,5	16,8	384,0	720,0	14
13442	18 G 2,5	18,1	432,0	769,0	14
13443	20 G 2,5	19,0	480,0	911,0	14
13444	25 G 2,5	22,2	600,0	1047,0	14
13445	30 G 2,5	22,9	720,0	1280,0	14
13446	2 x 4	9,2	77,0	199,0	12
13447	3 G 4	9,9	115,0	247,0	12
13448	4 G 4	11,0	154,0	299,0	12
13449	5 G 4	12,1	192,0	369,0	12
13450	7 G 4	13,3	269,0	463,0	12
13451	8 G 4	15,9	307,0	601,0	12
13452	10 G 4	17,3	384,0	698,0	12
13453	12 G 4	18,3	461,0	790,0	12
13454	16 G 4	20,2	614,0	1130,0	12
13455	18 G 4	21,8	691,0	1280,0	12
13456	2 x 6	10,8	115,0	266,0	10
13457	3 G 6	11,7	173,0	360,0	10
13458	4 G 6	13,0	230,0	429,0	10
13459	5 G 6	14,5	288,0	529,0	10
13460	7 G 6	16,0	403,0	631,0	10
13461	2 x 10	14,0	192,0	440,0	8
13462	3 G 10	15,0	288,0	550,0	8
13463	4 G 10	16,8	384,0	708,0	8
13464	5 G 10	18,7	480,0	862,0	8
13465	7 G 10	20,6	672,0	1124,0	8
13466	2 x 16	16,5	307,0	642,0	6
13467	3 G 16	17,6	461,0	830,0	6
13468	4 G 16	19,7	641,0	1060,0	6
13469	5 G 16	21,9	768,0	1270,0	6
13470	7 G 16	24,4	1075,0	1794,0	6
13471	3 G 25	22,5	720,0	1190,0	4
13472	4 G 25	25,2	960,0	1594,0	4
13473	5 G 25	27,9	1200,0	2014,0	4
13474	3 G 35	26,3	1008,0	1590,0	2
13475	4 G 35	29,2	1344,0	2200,0	2
13476	5 G 35	32,7	1680,0	2693,0	2
13477	3 G 50	31,5	1440,0	2571,0	1
13478	4 G 50	35,0	1920,0	3087,0	1
13479	5 G 50	38,7	2400,0	3980,0	1
13480	3 G 70	37,2	2016,0	3207,0	2/0
13481	4 G 70	42,2	2688,0	4077,0	2/0
13482	5 G 70	47,4	3360,0	5501,0	2/0
13483	3 G 95	42,1	2736,0	4708,0	3/0
13484	4 G 95	47,0	3648,0	5590,0	3/0
13485	5 G 95	52,3	4560,0	6972,0	3/0
13486	3 G 120	46,6	3456,0	5515,0	4/0
13487	4 G 120	51,4	4608,0	7100,0	4/0
13488	3 G 150	53,0	4320,0	6279,0	300 kcmil
13489	4 G 150	59,0	5760,0	7781,0	300 kcmil

Dimensions and specifications may be changed without prior notice. (RA03)