

MEGAFLEX® 500-C

halogen-free, flame retardant, oil-resistant,
UV-resistant, flexible, screened, EMC-preferred types, meter marking



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** U₀/U 300/500 V
- **Test voltage** 3000 V
- **Minimum bending radius**
flexing approx. 10x cable ø
fixed installation approx. 4x cable ø
- **Flexible**
Alternate bending test according to DIN VDE 0281-2
- **Coupling resistance**
max. 250 Ohm/km

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
- Separating foil
- Tinned copper braided screening, coverage approx. 85%
- 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
- Flexible, abrasion- and wear-resistant
- Ozone-resistant
- Recycleable

Tests

- Flame test to VDE 0482-332-3 / BS 4066 part 3/
DIN EN 60332-3/IEC 60332-3 (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 60811-2-1
- Hydrolysis-resistant to DIN EN 61234-1
- Ozone-resistant to DIN EN 60811-2-1 / DIN VDE 0281-2



Approved to UL/CSA
see section N, page N 56

Note

- G = with green-yellow earth core;
x = without green-yellow earth core (OZ).
- **unscreened analogue type:**
MEGAFLEX® 500, see page A 64, 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. An interference-free transmission of signals and pulse is assured by the high degree of screening. 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.

EMC = Electromagnetic compatibility

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.
13500	2 x 0,5	5,7	35,0	46,0	20
13501	3 G 0,5	6,0	42,0	56,0	20
13502	3 x 0,5	6,0	42,0	56,0	20
13504	4 x 0,5	6,5	47,0	62,0	20
13503	4 G 0,5	6,5	47,0	62,0	20
13505	5 G 0,5	7,0	56,0	75,0	20
13506	5 x 0,5	7,0	56,0	75,0	20
13507	7 G 0,5	7,9	69,0	98,0	20

Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
13508	8 G 0,5	8,5	80,0	116,0	20
13509	10 G 0,5	9,3	94,0	135,0	20
13510	12 G 0,5	9,6	108,0	158,0	20
13511	16 G 0,5	10,7	129,0	210,0	20
13512	18 G 0,5	11,2	145,0	216,0	20
13514	20 G 0,5	11,9	172,0	240,0	20
13515	25 G 0,5	13,4	240,0	315,0	20

Continuation ►

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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.
13516	2 x 0,75	6,1	40,0	60,0	18
13517	3 G 0,75	6,4	52,0	68,0	18
13518	3 x 0,75	6,4	52,0	68,0	18
13519	4 G 0,75	6,9	60,0	78,0	18
13520	4 x 0,75	6,9	60,0	78,0	18
13521	5 G 0,75	7,4	71,0	95,0	18
13522	5 x 0,75	7,4	71,0	95,0	18
13523	7 G 0,75	8,6	91,0	130,0	18
13524	7 x 0,75	8,6	91,0	130,0	18
13525	8 G 0,75	9,4	110,0	145,0	18
13526	10 G 0,75	10,2	137,0	180,0	18
13527	12 G 0,75	10,4	142,0	203,0	18
13528	16 G 0,75	11,6	200,0	275,0	18
13529	18 G 0,75	12,4	212,0	290,0	18
13530	20 G 0,75	12,9	238,0	320,0	18
13531	25 G 0,75	14,8	281,0	413,0	18
13532	2 x 1	6,4	50,0	66,0	17
13533	3 G 1	6,7	60,0	80,0	17
13534	3 x 1	6,7	60,0	80,0	17
13535	4 G 1	7,3	71,0	100,0	17
13536	4 x 1	7,3	71,0	100,0	17
13537	5 G 1	7,8	88,0	130,0	17
13538	7 G 1	9,1	111,0	160,0	17
13539	8 G 1	9,9	127,0	197,0	17
13540	10 G 1	10,8	150,0	232,0	17
13541	12 G 1	11,2	184,0	260,0	17
13542	16 G 1	12,3	209,0	346,0	17
13543	18 G 1	13,2	260,0	382,0	17
13544	20 G 1	13,8	317,0	440,0	17
13545	25 G 1	15,8	349,0	540,0	17
13546	2 x 1,5	6,6	63,0	88,0	16
13547	3 G 1,5	6,9	80,0	100,0	16
13548	3 x 1,5	6,9	80,0	100,0	16
13549	4 G 1,5	7,5	97,0	125,0	16
13550	5 G 1,5	8,4	119,0	158,0	16
13552	7 G 1,5	10,0	147,0	210,0	16
13554	8 G 1,5	10,7	170,0	244,0	16
13556	10 G 1,5	11,8	193,0	315,0	16
13557	12 G 1,5	12,1	267,0	340,0	16
13558	16 G 1,5	13,6	315,0	424,0	16
13559	18 G 1,5	14,6	374,0	480,0	16
13560	20 G 1,5	15,3	396,0	545,0	16
13561	25 G 1,5	17,9	526,0	702,0	16

Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
13562	2 x 2,5	8,3	96,0	132,0	14
13563	3 G 2,5	9,0	144,0	168,0	14
13565	4 G 2,5	9,8	148,0	195,0	14
13566	5 G 2,5	10,9	181,0	256,0	14
13567	7 G 2,5	12,9	255,0	345,0	14
13568	8 G 2,5	13,8	285,0	390,0	17
13569	10 G 2,5	15,8	340,0	482,0	14
13570	12 G 2,5	15,9	441,0	572,0	14
13571	2 x 4	9,8	120,0	220,0	12
13572	3 G 4	10,6	174,0	251,0	12
13573	4 G 4	11,5	230,0	305,0	12
13574	5 G 4	12,7	273,0	388,0	12
13575	7 G 4	13,9	316,0	504,0	12
13576	2 x 6	11,5	173,0	270,0	10
13577	3 G 6	12,4	240,0	351,0	10
13578	4 G 6	13,8	305,0	464,0	10
13579	5 G 6	15,7	439,0	546,0	10
13580	7 G 6	16,6	505,0	670,0	10
13581	2 x 10	14,9	255,0	461,0	8
13582	3 G 10	15,9	350,0	574,0	8
13583	4 G 10	17,8	535,0	785,0	8
13584	5 G 10	19,6	592,0	914,0	8
13585	7 G 10	21,6	810,0	1308,0	8
13586	2 x 16	17,3	422,0	670,0	6
13587	3 G 16	18,5	585,0	911,0	6
13588	4 G 16	20,8	740,0	1105,0	6
13589	5 G 16	22,9	895,0	1293,0	6
13590	7 G 16	25,0	1282,0	2149,0	6
13591	4 G 25	26,2	1140,0	1911,0	4
13592	4 x 35	30,4	1576,0	2542,0	2
13593	4 G 50	34,6	2155,0	3550,0	1
13594	4 G 70	41,3	3120,0	4939,0	2/0
13595	4 G 95	46,2	4043,0	6690,0	3/0
13596	4 G 120	51,0	5069,0	8453,0	4/0
13597	4 G 150	59,0	5792,0	9104,0	300 kcmil

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