

MEGAFLEX® 600 halogen-free, flame retardant, oil-resistant, UV-resistant, flexible, meter marking



Technical data

- Halogen-free flexible control cable to UL-Style 20234, UL-Std.758
- **Temperature range**
flexing -30°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage** U₀/U 600/1000 V
- **Test voltage** 4000 V
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 4x cable Ø
- **Flexibility**
Alternate bending test acc. to DIN VDE 0473-396 / DIN EN 50396

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
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layer with optimal lay-length
- Outer sheath, halogen-free special polymer
- Sheath colour black (RAL 9005)
- with meter marking

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/Recycleable

Tests

- Flame test acc. to DIN VDE 0482-332-3-24, BS 4066 part 3, DIN EN 60332-3-24, IEC 60332-3-24 (previously DIN VDE 0472 part 804 test method C)
- Self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2/IEC 60332-1 (previously DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- Corrosiveness of combustion gases acc. to NF X 10-702
- Halogen-free acc. to DIN VDE 0482 part 267/ EN 50267-2-1/ IEC 60754-1 (equivalent DIN VDE 0472 part 815)
- Smoke density acc. 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 VDE 0473-811-404/ DIN EN 60811-404
- Hydrolysis-resistant to DIN EN 61234-1
- Ozone-resistant to DIN VDE 0473-811-403/ DIN EN 60811-403

Note

- G = with green-yellow conductor
x = without green-yellow conductor
- screened analogue type:
MEGAFLEX® 600-C

Application

For fixed installation or flexible application, with occasional not permanently recurring free movement without forced motion and without tensile stress, for high mechanical strain. As a measuring and control cable in tool machinery, conveyor belts and production lines, plant engineering, climate engineering, in foundries and steel mills. Especially suited for wind power plant and computer equipment.

CE The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
13200	2 x 0,5	20	6,4	9,6	56,0
13201	3 G 0,5	20	6,8	14,4	68,0
13202	3 x 0,5	20	6,8	14,4	68,0
13203	4 G 0,5	20	7,6	19,0	100,0
13204	4 x 0,5	20	7,6	19,0	100,0
13205	5 G 0,5	20	8,2	24,0	117,0
13206	5 x 0,5	20	8,2	24,0	117,0
13207	7 G 0,5	20	9,8	33,6	138,0

Part no.	No. cores x cross-sec. mm ²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
13208	8 G 0,5	20	10,7	38,0	150,0
13209	10 G 0,5	20	11,6	48,0	176,0
13210	12 G 0,5	20	12,2	58,0	200,0
13211	16 G 0,5	20	13,7	76,0	250,0
13212	18 G 0,5	20	14,4	86,0	276,0
13213	20 G 0,5	20	15,3	96,0	293,0
13214	25 G 0,5	20	17,2	120,0	335,0
13215	30 G 0,5	20	18,0	144,0	348,0

Continuation ▶

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Part no.	No. cores x cross-sec. mm²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
13216	34 G 0,5	20	19,8	163,0	520,0
13217	37 G 0,5	20	15,0	178,0	561,0
13218	41 G 0,5	20	21,3	197,0	590,0
13219	42 G 0,5	20	21,2	202,0	595,0
13220	50 G 0,5	20	23,4	240,0	715,0
13221	61 G 0,5	20	26,0	293,0	840,0
13222	65 G 0,5	20	26,8	312,0	880,0
13223	2 x 0,75	19	6,8	14,4	66,0
13224	3 G 0,75	19	7,2	21,6	74,0
13225	3 x 0,75	19	7,2	21,6	74,0
13226	4 G 0,75	19	8,0	29,0	126,0
13227	4 x 0,75	19	8,0	29,0	126,0
13228	5 G 0,75	19	8,8	36,0	140,0
13229	5 x 0,75	19	8,8	36,0	140,0
13230	7 G 0,75	19	10,7	50,0	190,0
13231	7 x 0,75	19	10,7	50,0	190,0
13232	8 G 0,75	19	11,5	58,0	212,0
13233	10 G 0,75	19	12,7	72,0	238,0
13234	12 G 0,75	19	13,1	86,0	257,0
13235	16 G 0,75	19	14,6	115,0	304,0
13236	18 G 0,75	19	15,6	130,0	362,0
13237	20 G 0,75	19	16,6	144,0	394,0
13238	25 G 0,75	19	18,9	180,0	486,0
13239	30 G 0,75	19	15,4	216,0	450,0
13241	34 G 0,75	19	21,5	245,0	638,0
13242	37 G 0,75	19	21,5	260,0	696,0
13243	41 G 0,75	19	23,2	296,0	750,0
13244	42 G 0,75	19	23,2	302,0	770,0
13245	50 G 0,75	19	25,6	360,0	895,0
13246	61 G 0,75	19	28,2	439,0	1070,0
13247	65 G 0,75	19	29,0	468,0	1110,0
13248	2 x 1	18	7,4	19,2	80,0
13249	3 G 1	18	8,0	29,0	96,0
13250	3 x 1	18	8,0	29,0	96,0
13251	4 G 1	18	8,8	38,4	100,0
13252	4 x 1	18	8,8	38,4	100,0
13253	5 G 1	18	9,8	48,0	130,0
13254	7 G 1	18	11,7	67,0	170,0
13255	8 G 1	18	12,8	77,0	230,0
13256	10 G 1	18	14,3	96,0	270,0
13257	12 G 1	18	14,5	115,0	290,0
13258	16 G 1	18	16,5	154,0	360,0
13259	18 G 1	18	17,3	173,0	405,0
13260	20 G 1	18	18,4	192,0	450,0
13261	25 G 1	18	21,1	240,0	570,0
13262	34 G 1	18	24,0	326,0	750,0
13263	37 G 1	18	24,3	355,0	790,0
13264	41 G 1	18	25,9	394,0	890,0
13265	42 G 1	18	25,9	403,0	900,0
13266	50 G 1	18	28,5	480,0	1100,0
13267	61 G 1	18	31,4	586,0	1266,0
13268	65 G 1	18	32,5	628,0	1560,0
13269	2 x 1,5	16	8,4	29,0	95,0
13270	3 G 1,5	16	9,1	43,0	112,0
13271	3 x 1,5	16	9,1	43,0	112,0
13272	4 G 1,5	16	9,9	58,0	139,0
13273	5 G 1,5	16	11,0	72,0	170,0
13274	7 G 1,5	16	13,3	101,0	225,0
13275	8 G 1,5	16	14,5	115,0	250,0
13276	10 G 1,5	16	16,1	144,0	300,0
13277	12 G 1,5	16	16,6	173,0	370,0
13278	16 G 1,5	16	18,5	230,0	450,0
13279	18 G 1,5	16	19,7	259,0	520,0
13280	20 G 1,5	16	20,9	288,0	600,0

Part no.	No. cores x cross-sec. mm²	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
13281	25 G 1,5	16	23,9	360,0	730,0
13282	34 G 1,5	16	27,2	490,0	950,0
13283	37 G 1,5	16	29,4	533,0	1094,0
13284	50 G 1,5	16	32,5	720,0	1400,0
13285	61 G 1,5	16	35,7	878,0	1700,0
13286	65 G 1,5	16	36,8	936,0	1900,0
13287	2 x 2,5	14	9,4	48,0	160,0
13288	3 G 2,5	14	9,9	72,0	175,0
13289	4 G 2,5	14	11,1	96,0	203,0
13290	5 G 2,5	14	12,4	120,0	251,0
13291	7 G 2,5	14	15,0	168,0	330,0
13292	8 G 2,5	14	16,1	192,0	400,0
13293	10 G 2,5	14	17,0	240,0	461,0
13294	12 G 2,5	14	18,4	288,0	553,0
13295	16 G 2,5	14	19,4	384,0	742,0
13296	18 G 2,5	14	22,0	432,0	795,0
13297	20 G 2,5	14	32,2	480,0	924,0
13298	25 G 2,5	14	26,9	600,0	1110,0
13299	30 G 2,5	14	28,1	720,0	1370,0
13300	2 x 4	12	11,4	77,0	180,0
13301	3 G 4	12	12,3	115,0	230,0
13302	4 G 4	12	13,8	154,0	310,0
13303	5 G 4	12	15,3	192,0	410,0
13304	7 G 4	12	16,8	269,0	540,0
13305	8 G 4	12	20,0	307,0	710,0
13306	10 G 4	12	21,6	384,0	760,0
13307	12 G 4	12	22,9	461,0	860,0
13308	16 G 4	12	23,6	614,0	910,0
13309	18 G 4	12	24,2	691,0	980,0
13310	2 x 6	10	13,1	115,0	205,0
13311	3 G 6	10	14,1	173,0	370,0
13312	4 G 6	10	15,6	230,0	430,0
13313	5 G 6	10	17,3	288,0	650,0
13314	7 G 6	10	19,3	403,0	860,0
13315	2 x 10	8	15,4	192,0	330,0
13316	3 G 10	8	16,5	288,0	660,0
13317	4 G 10	8	18,1	384,0	790,0
13318	5 G 10	8	20,5	480,0	960,0
13319	7 G 10	8	22,5	672,0	1300,0
13320	2 x 16	6	18,3	307,0	580,0
13321	3 G 16	6	19,6	461,0	700,0
13322	4 G 16	6	21,7	641,0	1100,0
13323	5 G 16	6	24,2	768,0	1600,0
13324	7 G 16	6	25,7	1075,0	1890,0
13325	3 G 25	4	24,0	720,0	1450,0
13326	4 G 25	4	26,9	960,0	1600,0
13327	5 G 25	4	29,4	1200,0	2050,0
13328	3 G 35	2	26,2	1008,0	1900,0
13329	4 G 35	2	29,4	1344,0	2400,0
13330	5 G 35	2	32,8	1680,0	2900,0
13331	3 G 50	1	31,6	1440,0	2700,0
13332	4 G 50	1	35,5	1920,0	3400,0
13333	5 G 50	1	40,0	2400,0	4361,0
13334	3 G 70	2/0	36,7	2016,0	3300,0
13335	4 G 70	2/0	40,7	2688,0	4400,0
13336	5 G 70	2/0	45,7	3360,0	5807,0
13337	3 G 95	3/0	41,2	2736,0	5050,0
13338	4 G 95	3/0	46,2	3648,0	6010,0
13339	5 G 95	3/0	50,7	4560,0	7752,0
13340	3 G 120	4/0	45,9	3456,0	5620,0
13341	4 G 120	4/0	50,3	4608,0	7500,0
13342	3 G 150	300 kcmil	52,7	4320,0	6390,0
13343	4 G 150	300 kcmil	58,8	5760,0	6840,0

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