

MEGAFLEX® 600-C

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 0,6/1 kV
- **Test voltage** 4000 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 black (RAL 9005)
- The materials used in manufacture are cadmium-free and contain no silicone and are free from substances harmful to the wetting properties of lacquers
- with meter marking, change-over in 2011

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 60332-3-24 (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
- hydrolysebeständig nach 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.
- **unscreened analogue type:**
MEGAFLEX® 600, see page N 58

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.
15217	2 x 0,5	6,9	35,0	46,0	20
15218	3 G 0,5	7,3	42,0	56,0	20
15219	3 x 0,5	7,3	42,0	56,0	20
15220	4 G 0,5	8,1	47,0	62,0	20
15221	4 x 0,5	8,1	47,0	62,0	20
15222	5 G 0,5	8,7	56,0	75,0	20
15223	5 x 0,5	8,7	56,0	75,0	20
15224	7 G 0,5	10,3	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.
15225	10 G 0,5	12,1	94,0	135,0	20
15226	12 G 0,5	12,7	108,0	158,0	20
15227	18 G 0,5	14,9	145,0	216,0	20
15228	20 G 0,5	15,8	172,0	240,0	20
15229	25 G 0,5	17,7	240,0	315,0	20
15230	2 x 0,75	7,3	40,0	60,0	18
15231	3 G 0,75	7,7	52,0	68,0	18
15232	3 x 0,75	7,7	52,0	68,0	18

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.
15233	4 G 0,75	8,5	60,0	78,0	18
15234	4 x 0,75	8,5	60,0	78,0	18
15235	5 G 0,75	9,3	71,0	95,0	18
15236	5 x 0,75	9,3	71,0	95,0	18
15237	7 G 0,75	10,7	91,0	130,0	18
15238	7 x 0,75	10,7	91,0	130,0	18
15239	12 G 0,75	13,1	142,0	203,0	18
15240	18 G 0,75	16,2	212,0	290,0	18
15241	20 G 0,75	17,2	238,0	320,0	18
15242	25 G 0,75	19,5	281,0	413,0	18
15243	2 x 1	8,0	50,0	66,0	17
15244	3 G 1	8,6	60,0	80,0	17
15245	3 x 1	8,6	60,0	80,0	17
15247	4 G 1	9,4	71,0	100,0	17
15246	4 G 1	9,4	71,0	100,0	17
15248	5 G 1	10,4	88,0	130,0	17
15249	10 G 1	14,9	150,0	232,0	17
15250	12 G 1	14,5	184,0	260,0	17
15251	18 G 1	17,9	260,0	382,0	17
15252	20 G 1	19,0	317,0	440,0	17
15253	25 G 1	21,7	349,0	540,0	17
15254	2 x 1,5	9,0	63,0	88,0	16
15255	3 G 1,5	9,7	80,0	100,0	16
15256	3 x 1,5	9,7	80,0	100,0	16
15257	4 G 1,5	10,5	97,0	125,0	16
15258	5 G 1,5	11,6	119,0	158,0	16

Part no.	No. cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
15259	7 G 1,5	13,9	147,0	210,0	16
15260	10 G 1,5	16,7	193,0	315,0	16
15261	12 G 1,5	17,2	267,0	340,0	16
15262	18 G 1,5	20,5	374,0	480,0	16
15263	20 G 1,5	21,7	396,0	545,0	16
15264	25 G 1,5	24,7	526,0	702,0	16
15265	2 x 2,5	10,2	96,0	132,0	14
15266	3 G 2,5	10,7	144,0	168,0	14
15267	4 G 2,5	11,9	148,0	195,0	14
15268	5 x 2,5	13,2	181,0	256,0	14
15269	7 G 2,5	15,8	255,0	345,0	14
15270	10 G 2,5	17,0	340,0	482,0	14
15271	12 G 2,5	19,2	441,0	572,0	14
15272	3 G 4	13,1	174,0	251,0	12
15273	4 G 4	14,6	230,0	305,0	12
15274	5 G 4	16,1	273,0	388,0	12
15275	7 G 4	17,6	316,0	504,0	12
15276	3 G 6	14,9	240,0	351,0	10
15277	4 G 6	16,4	305,0	464,0	10
15278	5 G 6	18,1	439,0	546,0	10
15279	7 G 6	20,1	505,0	670,0	10
15280	3 G 10	16,6	350,0	574,0	8
15281	4 G 10	18,1	535,0	785,0	8
15282	5 G 10	20,6	592,0	914,0	8
15283	7 G 10	22,6	810,0	1308,0	8

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