MEGAFLEX® 500

oil resistant, highly flame-retardant



TECHNICAL DATA

Control and connection cable acc. to UL-Std. 758 (AWM) Style 20939, in alignment with DIN VDE 0285-525-3-11 / DIN EN 50525-3-11

Temperature range	flexible -30°C to +80°C fixed -40°C to +80°C
Nominal voltage	AC U_0/U 300/500 V UL (AWM) AC 600 V
Test voltage core/core	3000 V
Minimum bending radius	flexible 10x Outer-Ø fixed 4x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: halogen-free polymer
- Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores, G = with protective conductor GN-YE, in the outer layer, x = without protective conductor
- Cores stranded in layers with optimal lay lengths
- Outer sheath: halogen-free polymer
- Sheath colour: grey (RAL 7001)
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation, ozone, weathering effects, hydrolysis, greases
- abrasion-resistant, wear-resistant
- for outdoor use
- flexible
- halogen-free
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- toxicity of combustion gases acc. to NF X 70-100
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2, CSA FT1
- bundle fire test acc. to DIN VDE 0482-332-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404
- ozone-resistant acc. to DIN VDE 0473-811-403 / DIN EN 60811-403
- hydrolysis-resistant acc. to DIN VDE 0349-1 / DIN EN 61234-1 / IEC 61234-1
- alternate bending test acc. to DIN VDE 0473-396 / DIN EN 50396
- certifications and approvals: EAC

APPLICATION

For fixed installation or flexible applications with non-recurring free movement, without forced movement control and without tensile stress; for heavy mechanical load in dry, damp and wet rooms as well as outdoors. Can be used as a connecting and control cable in machine and plant construction, HVAC technology, warehousing and materials handling technology, shipbuilding, renewable energy sector such as wind turbine construction.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
13344	2 x 0.5	20	5.3	9.6	43.0
13345	3 G 0.5	20	5.6	14.4	50.0
13346	3 x 0.5	20	5.6	14.4	50.0
13347	4 G 0.5	20	6.0	19.0	60.0
13348	4 x 0.5	20	6.0	19.0	60.0
13349	5 G 0.5	20	6.6	24.0	71.0
13350	5 x 0.5	20	6.6	24.0	71.0
13351	7 G 0.5	20	7.7	33.6	84.0
13352	8 G 0.5	20	8.3	38.0	101.0
13353	10 G 0.5	20	9.2	48.0	121.0
13354	12 G 0.5	20	9.5	58.0	142.0
13355	16 G 0.5	20	10.7	76.0	183.0
13356	18 G 0.5	20	11.3	86.0	204.0
13357	20 G 0.5	20	12.1	96.0	227.0
13359	25 G 0.5	20	13.5	120.0	283.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
13360	30 G 0.5	20	14.5	144.0	324.0
13361	34 G 0.5	20	15.8	163.0	367.0
13362	37 G 0.5	20	15.8	178.0	381.0
13363	41 G 0.5	20	17.1	197.0	417.0
13364	42 G 0.5	20	17.1	202.0	454.0
13365	50 G 0.5	20	18.8	240.0	519.0
13366	61 G 0.5	20	20.1	293.0	635.0
13367	65 G 0.5	20	20.8	312.0	694.0
13368	2 x 0.75	19	5.5	14.4	47.0
13369	3 G 0.75	19	5.8	21.6	56.0
13370	3 x 0.75	19	5.8	21.6	56.0
13371	4 G 0.75	19	6.3	29.0	69.0
13372	4 x 0.75	19	6.3	29.0	69.0
13373	5 G 0.75	19	6.9	36.0	83.0
13374	5 x 0.75	19	6.9	36.0	83.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
13375	7 G 0.75	19	8.0	50.0	114.0
13376	7 x 0.75	19	8.0	50.0	114.0
13377	8 G 0.75	19	8.6	58.0	136.0
13378	10 G 0.75	19	9.6	72.0	172.0
13379	12 G 0.75	19	9.9	86.0	183.0
13380	16 G 0.75	19	11.2	115.0	241.0
13381	18 G 0.75	19	12.0	130.0	266.0
13382	20 G 0.75	19	12.6	144.0	291.0
13383	25 G 0.75	19	14.3	180.0	374.0
13384	30 G 0.75	19	15.1	216.0	450.0
13385	34 G 0.75	19	16.5	245.0	517.0
13386	37 G 0.75	19	16.5	260.0	541.0
13387	41 G 0.75	19	17.9	296.0	611.0
13388	42 G 0.75	19	17.9	302.0	621.0
13389	50 G 0.75	19	19.8	360.0	742.0
13390	61 G 0.75	19	21.2	439.0	853.0
13392	65 G 0.75	19	21.8	468.0	909.0
13393	2 x 1	18	5.8	19.2	63.0
13394	3 G 1	18	6.2	29.0	74.0
13395	3 x 1	18	6.2	29.0	74.0
13396	4 G 1	18	6.7	38.4	90.0
13397	4 x 1	18	6.7	38.4	90.0
13398	5 G 1	18	7.3	48.0	109.0
13399	7 G 1	18	8.6	67.0	151.0
13400	8 G 1	18	9.5	77.0	184.0
13401	10 G 1	18	10.5	96.0	224.0
13402	12 G 1	18	10.8	115.0	243.0
13403	16 G 1	18	12.2	154.0	314.0
13404	18 G 1	18	13.0	173.0	361.0
13405	20 G 1	18	13.7	192.0	387.0
13406	25 G 1	18	15.3	240.0	496.0
13407	34 G 1	18	17.8	326.0	670.0
13408	37 G 1	18	17.8	355.0	713.0
13409	41 G 1	18	19.6	394.0	784.0
13410	42 G 1	18	19.6	403.0	824.0
13411	50 G 1	18	21.4	480.0	952.0
13412	61 G 1	18	22.9	586.0	1140.0
13413	65 G 1	18	23.7	628.0	1201.0
13414	2 x 1.5	16	6.8	29.0	70.0
13415	3 G 1.5	16	7.2	43.0	94.0
13416	3 x 1.5	16	7.2	43.0	94.0
13417	4 G 1.5	16	7.8	58.0	112.0
13418	5 G 1.5	16	8.6	72.0	141.0
13419	7 G 1.5	16	10.6	101.0	191.0
13420	8 G 1.5	16	11.4	115.0	224.0
13421	10 G 1.5	16	12.6	144.0	282.0
13422	12 G 1.5	16	13.2	173.0	311.0
13423	16 G 1.5	16	14.8	230.0	392.0
13425	18 G 1.5	16	15.8	259.0	450.0
13426	20 G 1.5	16	16.7	288.0	497.0
13427	25 G 1.5	16	18.8	360.0	630.0
13428	34 G 1.5	16	21.8	490.0	842.0
13429	37 G 1.5	16	21.8	533.0	897.0
13430	50 G 1.5	16	26.3	720.0	1277.0
13431	61 G 1.5	16	28.0	878.0	1460.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
13432	65 G 1.5	16	29.0	936.0	1612.0
13433	2 x 2.5	14	8.0	48.0	118.0
13434	3 G 2.5	14	8.5	72.0	151.0
13435	4 G 2.5	14	9.5	96.0	181.0
13436	5 G 2.5	14	10.6	120.0	224.0
13437	7 G 2.5	14	13.0	168.0	316.0
13438	8 G 2.5	14	14.0	192.0	370.0
13439	10 G 2.5	14	15.6	240.0	451.0
13440	12 G 2.5	14	16.1	288.0	499.0
13441	16 G 2.5	14	18.2	384.0	720.0
13442	18 G 2.5	14	19.2	432.0	769.0
13443	20 G 2.5	14	20.5	480.0	911.0
13444	25 G 2.5	14	23.0	600.0	1047.0
13445	30 G 2.5	14	24.5	720.0	1280.0
13446	2 x 4	12	10.4	77.0	199.0
13447	3 G 4	12	11.0	115.0	247.0
13448	4 G 4	12	12.3	154.0	299.0
13449	5 G 4	12	13.7	192.0	369.0
13450	7 G 4	12	16.7	269.0	463.0
13451	8 G 4	12	18.4	307.0	601.0
13452	10 G 4	12	20.2	384.0	698.0
13453	12 G 4	12	21.1	461.0	790.0
13454	16 G 4	12	23.7	614.0	1130.0
13455	18 G 4	12	25.2	691.0	1280.0
13456	2 x 6	10	10.7	115.0	266.0
13457	3 G 6	10	11.4	173.0	360.0
13458	4 G 6	10	12.6	230.0	429.0
13459	5 G 6	10	14.3	288.0	529.0
13460	7 G 6	10	17.4	403.0	631.0
13461	2 x 10	8	14.4	192.0	440.0
13462	3 G 10	8	15.3	288.0	550.0
13463	4 G 10	8	17.2	384.0	708.0
13464	5 G 10	8	19.1	480.0	862.0
13465	7 G 10	8	23.5	672.0	1124.0
13466	2 x 16	6	16.6	307.0	642.0
13467	3 G 16	6	17.8	461.0	830.0
13468	4 G 16	6	20.0	641.0	1060.0
13469	5 G 16	6	22.4	768.0	1270.0
13470	7 G 16	6	27.2	1075.0	1794.0
13471	3 G 25	4	22.7	720.0	1190.0
13472	4 G 25	4	25.3	960.0	1594.0
13473	5 G 25	4	28.4	1200.0	2014.0
13474	3 G 35	2	25.3	1008.0	1590.0
13475	4 G 35	2	28.1	1344.0	2200.0
13476	5 G 35	2	31.7	1680.0	2693.0
13477	3 G 50	1	29.5	1440.0	2571.0
13478	4 G 50	1	33.0	1920.0	3087.0
13479	5 G 50	1	37.1	2400.0	3980.0
13480	3 G 70	2/0	35.5	2016.0	3207.0
13481	4 G 70	2/0	39.5	2688.0	4077.0
13482	5 G 70	2/0	44.5	3360.0	5501.0
13483	3 G 95	3/0	39.9	2736.0	4708.0
13484	4 G 95	3/0	44.6	3648.0	5590.0
13486	3 G 120	4/0	44.8	3456.0	5515.0

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