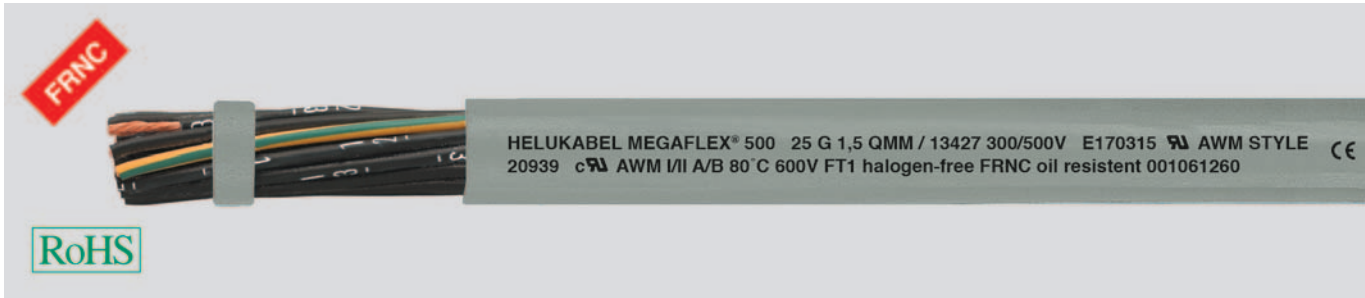


# MEGAFLEX® 500

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



## Technical data

- Halogen-free flexible control cable adapted to  
DIN VDE 0285-525-3-11/  
DIN EN 50525-3-11,  
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<sub>0</sub>/U 300/500 V  
UL/CSA 600 V
- **Test voltage** 3000 V
- **Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 4x cable Ø
- **Flexible**  
Alternate bending test acc. to  
DIN VDE 0473-396 / DIN EN 50396

## Cable structure

- Bare copper-conductor, to  
DIN VDE 0295 cl.5, fine-wire,  
BS 6360 cl.5, 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 layers with  
optimal lay-length
- Outer sheath of halogen-free  
special polymer
- Sheath colour grey (RAL 7001)
- with meter marking
- **LSOH**= Low Smoke Zero Halogen

## Note

- G = with green-yellow conductor  
x = without green-yellow conductor (OZ)
- Also available as a 0,6/1 kV cable  
MEGAFLEX® 600
- AWG sizes are approximate equivalent  
values. The actual cross-section is in mm<sup>2</sup>.
- screened analogue type:  
**MEGAFLEX® 500-C**, confer page 98

## Properties

- Highly flame-retardant
- Resistant to oils and greases
- Resistant to UV and weathering
- Hydrolysis resistant
- Flexible, abrasion- and wear-resistant
- Ozone-resistant, recyclable
- The materials used in manufacture are  
cadmium-free and contain no silicone  
and free from substances harmful to  
the wetting properties of lacquers

## 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),  
CSA FT 1
- Corrosiveness of combustion gases  
acc. to NF X 10-702
- Halogen-free acc. to DIN VDE 0482  
part 267 / DIN 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



Approved to UL/CSA  
see section N, page 394

## 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 air-conditioning systems, at the warehouse and conveyor systems, in ship-building and in the renewable energies such as in the construction of wind power stations.

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

| Part no. | No. cores x<br>cross-sec.<br>mm <sup>2</sup> | AWG-No. | Outer Ø<br>approx.<br>mm | Cop.<br>weight<br>kg / km | Weight<br>approx.<br>kg / km |
|----------|--|---------|--------------------------|---------------------------|------------------------------|
| 13344    | 2 x 0,5                                      | 20      | 5,0                      | 9,6                       | 43,0                         |
| 13345    | 3 G 0,5                                      | 20      | 5,3                      | 14,4                      | 50,0                         |
| 13346    | 3 x 0,5                                      | 20      | 5,3                      | 14,4                      | 50,0                         |
| 13347    | 4 G 0,5                                      | 20      | 5,7                      | 19,0                      | 60,0                         |
| 13348    | 4 x 0,5                                      | 20      | 5,7                      | 19,0                      | 60,0                         |
| 13349    | 5 G 0,5                                      | 20      | 6,2                      | 24,0                      | 71,0                         |
| 13350    | 5 x 0,5                                      | 20      | 6,2                      | 24,0                      | 71,0                         |
| 13351    | 7 G 0,5                                      | 20      | 7,4                      | 33,6                      | 84,0                         |
| 13352    | 8 G 0,5                                      | 20      | 8,0                      | 38,0                      | 101,0                        |

| Part no. | No. cores x<br>cross-sec.<br>mm <sup>2</sup> | AWG-No. | Outer Ø<br>approx.<br>mm | Cop.<br>weight<br>kg / km | Weight<br>approx.<br>kg / km |
|----------|--|---------|--------------------------|---------------------------|------------------------------|
| 13353    | 10 G 0,5                                     | 20      | 8,8                      | 48,0                      | 121,0                        |
| 13354    | 12 G 0,5                                     | 20      | 9,1                      | 58,0                      | 142,0                        |
| 13355    | 16 G 0,5                                     | 20      | 10,0                     | 76,0                      | 183,0                        |
| 13356    | 18 G 0,5                                     | 20      | 10,7                     | 86,0                      | 204,0                        |
| 13357    | 20 G 0,5                                     | 20      | 11,2                     | 96,0                      | 227,0                        |
| 13359    | 25 G 0,5                                     | 20      | 12,7                     | 120,0                     | 283,0                        |
| 13360    | 30 G 0,5                                     | 20      | 13,5                     | 144,0                     | 324,0                        |
| 13361    | 34 G 0,5                                     | 20      | 14,5                     | 163,0                     | 367,0                        |
| 13362    | 37 G 0,5                                     | 20      | 14,5                     | 178,0                     | 381,0                        |

Continuation ►

# MEGAFLEX® 500 halogen-free, flame retardant, oil-resistant, UV-resistant, flexible, meter marking



A

| Part no. | No. cores x cross-sec. mm <sup>2</sup> | AWG-No. | Outer Ø approx. mm | Cop. weight kg / km | Weight approx. kg / km |
|----------|--|---------|--------------------|---------------------|------------------------|
| 13363    | 41 G 0,5                               | 20      | 15,8               | 197,0               | 417,0                  |
| 13364    | 42 G 0,5                               | 20      | 15,8               | 202,0               | 454,0                  |
| 13365    | 50 G 0,5                               | 20      | 17,3               | 240,0               | 519,0                  |
| 13366    | 61 G 0,5                               | 20      | 18,5               | 293,0               | 635,0                  |
| 13367    | 65 G 0,5                               | 20      | 19,4               | 312,0               | 694,0                  |
| 13368    | 2 x 0,75                               | 19      | 5,4                | 14,4                | 47,0                   |
| 13369    | 3 G 0,75                               | 19      | 5,7                | 21,6                | 56,0                   |
| 13370    | 3 x 0,75                               | 19      | 5,7                | 21,6                | 56,0                   |
| 13371    | 4 G 0,75                               | 19      | 6,2                | 29,0                | 69,0                   |
| 13372    | 4 x 0,75                               | 19      | 6,2                | 29,0                | 69,0                   |
| 13373    | 5 G 0,75                               | 19      | 6,8                | 36,0                | 83,0                   |
| 13374    | 5 x 0,75                               | 19      | 6,8                | 36,0                | 83,0                   |
| 13375    | 7 G 0,75                               | 19      | 8,1                | 50,0                | 114,0                  |
| 13376    | 7 x 0,75                               | 19      | 8,1                | 50,0                | 114,0                  |
| 13377    | 8 G 0,75                               | 19      | 8,9                | 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      | 11,9               | 130,0               | 266,0                  |
| 13382    | 20 G 0,75                              | 19      | 12,6               | 144,0               | 291,0                  |
| 13383    | 25 G 0,75                              | 19      | 14,1               | 180,0               | 374,0                  |
| 13384    | 30 G 0,75                              | 19      | 15,4               | 216,0               | 450,0                  |
| 13385    | 34 G 0,75                              | 19      | 16,4               | 245,0               | 517,0                  |
| 13386    | 37 G 0,75                              | 19      | 16,4               | 260,0               | 541,0                  |
| 13387    | 41 G 0,75                              | 19      | 17,6               | 296,0               | 611,0                  |
| 13388    | 42 G 0,75                              | 19      | 17,6               | 302,0               | 621,0                  |
| 13389    | 50 G 0,75                              | 19      | 19,8               | 360,0               | 742,0                  |
| 13390    | 61 G 0,75                              | 19      | 20,9               | 439,0               | 853,0                  |
| 13392    | 65 G 0,75                              | 19      | 21,8               | 468,0               | 909,0                  |
| 13393    | 2 x 1                                  | 18      | 5,7                | 19,2                | 63,0                   |
| 13394    | 3 G 1                                  | 18      | 6,0                | 29,0                | 74,0                   |
| 13395    | 3 x 1                                  | 18      | 6,0                | 29,0                | 74,0                   |
| 13396    | 4 G 1                                  | 18      | 6,6                | 38,4                | 90,0                   |
| 13397    | 4 x 1                                  | 18      | 6,6                | 38,4                | 90,0                   |
| 13398    | 5 G 1                                  | 18      | 7,2                | 48,0                | 109,0                  |
| 13399    | 7 G 1                                  | 18      | 8,6                | 67,0                | 151,0                  |
| 13400    | 8 G 1                                  | 18      | 9,4                | 77,0                | 184,0                  |
| 13401    | 10 G 1                                 | 18      | 10,4               | 96,0                | 224,0                  |
| 13402    | 12 G 1                                 | 18      | 10,7               | 115,0               | 243,0                  |
| 13403    | 16 G 1                                 | 18      | 12,0               | 154,0               | 314,0                  |
| 13404    | 18 G 1                                 | 18      | 12,7               | 173,0               | 361,0                  |
| 13405    | 20 G 1                                 | 18      | 13,5               | 192,0               | 387,0                  |
| 13406    | 25 G 1                                 | 18      | 15,2               | 240,0               | 496,0                  |
| 13407    | 34 G 1                                 | 18      | 17,4               | 326,0               | 670,0                  |
| 13408    | 37 G 1                                 | 18      | 17,4               | 355,0               | 713,0                  |
| 13409    | 41 G 1                                 | 18      | 18,9               | 394,0               | 784,0                  |
| 13410    | 42 G 1                                 | 18      | 18,9               | 403,0               | 824,0                  |
| 13411    | 50 G 1                                 | 18      | 21,0               | 480,0               | 952,0                  |
| 13412    | 61 G 1                                 | 18      | 22,2               | 586,0               | 1140,0                 |
| 13413    | 65 G 1                                 | 18      | 23,2               | 628,0               | 1201,0                 |
| 13414    | 2 x 1,5                                | 16      | 6,3                | 29,0                | 70,0                   |
| 13415    | 3 G 1,5                                | 16      | 6,6                | 43,0                | 94,0                   |
| 13416    | 3 x 1,5                                | 16      | 6,6                | 43,0                | 94,0                   |
| 13417    | 4 G 1,5                                | 16      | 7,2                | 58,0                | 112,0                  |
| 13418    | 5 G 1,5                                | 16      | 7,9                | 72,0                | 141,0                  |
| 13419    | 7 G 1,5                                | 16      | 9,5                | 101,0               | 191,0                  |
| 13420    | 8 G 1,5                                | 16      | 10,4               | 115,0               | 224,0                  |
| 13421    | 10 G 1,5                               | 16      | 11,3               | 144,0               | 282,0                  |
| 13422    | 12 G 1,5                               | 16      | 11,7               | 173,0               | 311,0                  |
| 13423    | 16 G 1,5                               | 16      | 13,3               | 230,0               | 392,0                  |

| Part no. | No. cores x cross-sec. mm <sup>2</sup> | AWG-No.   | Outer Ø approx. mm | Cop. weight kg / km | Weight approx. kg / km |
|----------|--|-----------|--------------------|---------------------|------------------------|
| 13425    | 18 G 1,5                               | 16        | 14,0               | 259,0               | 450,0                  |
| 13426    | 20 G 1,5                               | 16        | 14,9               | 288,0               | 497,0                  |
| 13427    | 25 G 1,5                               | 16        | 16,8               | 360,0               | 630,0                  |
| 13428    | 34 G 1,5                               | 16        | 19,4               | 490,0               | 842,0                  |
| 13429    | 37 G 1,5                               | 16        | 19,4               | 533,0               | 897,0                  |
| 13430    | 50 G 1,5                               | 16        | 23,4               | 720,0               | 1277,0                 |
| 13431    | 61 G 1,5                               | 16        | 24,8               | 878,0               | 1460,0                 |
| 13432    | 65 G 1,5                               | 16        | 25,8               | 936,0               | 1612,0                 |
| 13433    | 2 x 2,5                                | 14        | 7,6                | 48,0                | 118,0                  |
| 13434    | 3 G 2,5                                | 14        | 8,3                | 72,0                | 151,0                  |
| 13435    | 4 G 2,5                                | 14        | 9,1                | 96,0                | 181,0                  |
| 13436    | 5 G 2,5                                | 14        | 10,2               | 120,0               | 224,0                  |
| 13437    | 7 G 2,5                                | 14        | 12,1               | 168,0               | 316,0                  |
| 13438    | 8 G 2,5                                | 14        | 13,2               | 192,0               | 370,0                  |
| 13439    | 10 G 2,5                               | 14        | 14,6               | 240,0               | 451,0                  |
| 13440    | 12 G 2,5                               | 14        | 15,2               | 288,0               | 499,0                  |
| 13441    | 16 G 2,5                               | 14        | 16,8               | 384,0               | 720,0                  |
| 13442    | 18 G 2,5                               | 14        | 18,1               | 432,0               | 769,0                  |
| 13443    | 20 G 2,5                               | 14        | 19,0               | 480,0               | 911,0                  |
| 13444    | 25 G 2,5                               | 14        | 22,2               | 600,0               | 1047,0                 |
| 13445    | 30 G 2,5                               | 14        | 22,9               | 720,0               | 1280,0                 |
| 13446    | 2 x 4                                  | 12        | 9,2                | 77,0                | 199,0                  |
| 13447    | 3 G 4                                  | 12        | 9,9                | 115,0               | 247,0                  |
| 13448    | 4 G 4                                  | 12        | 11,0               | 154,0               | 299,0                  |
| 13449    | 5 G 4                                  | 12        | 12,1               | 192,0               | 369,0                  |
| 13450    | 7 G 4                                  | 12        | 13,3               | 269,0               | 463,0                  |
| 13451    | 8 G 4                                  | 12        | 15,9               | 307,0               | 601,0                  |
| 13452    | 10 G 4                                 | 12        | 17,3               | 384,0               | 698,0                  |
| 13453    | 12 G 4                                 | 12        | 18,3               | 461,0               | 790,0                  |
| 13454    | 16 G 4                                 | 12        | 20,2               | 614,0               | 1130,0                 |
| 13455    | 18 G 4                                 | 12        | 21,8               | 691,0               | 1280,0                 |
| 13456    | 2 x 6                                  | 10        | 10,8               | 115,0               | 266,0                  |
| 13457    | 3 G 6                                  | 10        | 11,7               | 173,0               | 360,0                  |
| 13458    | 4 G 6                                  | 10        | 13,0               | 230,0               | 429,0                  |
| 13459    | 5 G 6                                  | 10        | 14,5               | 288,0               | 529,0                  |
| 13460    | 7 G 6                                  | 10        | 16,0               | 403,0               | 631,0                  |
| 13461    | 2 x 10                                 | 8         | 14,0               | 192,0               | 440,0                  |
| 13462    | 3 G 10                                 | 8         | 15,0               | 288,0               | 550,0                  |
| 13463    | 4 G 10                                 | 8         | 16,8               | 384,0               | 708,0                  |
| 13464    | 5 G 10                                 | 8         | 18,7               | 480,0               | 862,0                  |
| 13465    | 7 G 10                                 | 8         | 20,6               | 672,0               | 1124,0                 |
| 13466    | 2 x 16                                 | 6         | 16,5               | 307,0               | 642,0                  |
| 13467    | 3 G 16                                 | 6         | 17,6               | 461,0               | 830,0                  |
| 13468    | 4 G 16                                 | 6         | 19,7               | 641,0               | 1060,0                 |
| 13469    | 5 G 16                                 | 6         | 21,9               | 768,0               | 1270,0                 |
| 13470    | 7 G 16                                 | 6         | 24,4               | 1075,0              | 1794,0                 |
| 13471    | 3 G 25                                 | 4         | 22,5               | 720,0               | 1190,0                 |
| 13472    | 4 G 25                                 | 4         | 25,2               | 960,0               | 1594,0                 |
| 13473    | 5 G 25                                 | 4         | 27,9               | 1200,0              | 2014,0                 |
| 13474    | 3 G 35                                 | 2         | 26,3               | 1008,0              | 1590,0                 |
| 13475    | 4 G 35                                 | 2         | 28,5               | 1344,0              | 2200,0                 |
| 13476    | 5 G 35                                 | 2         | 31,2               | 1680,0              | 2693,0                 |
| 13477    | 3 G 50                                 | 1         | 30,2               | 1440,0              | 2571,0                 |
| 13478    | 4 G 50                                 | 1         | 34,0               | 1920,0              | 3087,0                 |
| 13479    | 5 G 50                                 | 1         | 37,8               | 2400,0              | 3980,0                 |
| 13480    | 3 G 70                                 | 2/0       | 37,0               | 2016,0              | 3207,0                 |
| 13481    | 4 G 70                                 | 2/0       | 41,5               | 2688,0              | 4077,0                 |
| 13482    | 5 G 70                                 | 2/0       | 46,2               | 3360,0              | 5501,0                 |
| 13483    | 3 G 95                                 | 3/0       | 41,4               | 2736,0              | 4708,0                 |
| 13484    | 4 G 95                                 | 3/0       | 46,2               | 3648,0              | 5590,0                 |
| 13485    | 5 G 95                                 | 3/0       | 51,5               | 4560,0              | 6972,0                 |
| 13486    | 3 G 120                                | 4/0       | 45,7               | 3456,0              | 5515,0                 |
| 13487    | 4 G 120                                | 4/0       | 51,2               | 4608,0              | 7100,0                 |
| 13488    | 3 G 150                                | 300 kcmil | 52,8               | 4320,0              | 6279,0                 |
| 13489    | 4 G 150                                | 300 kcmil | 58,3               | 5760,0              | 7781,0                 |

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



Suitable accessories can be found in Chapter X.

- Cable Gland - HELUTOP® HT-PA
- Cable Gland - HELUTOP® HT-MS