

# CONTROL AND CONNECTION CABLES

## GAALFLEX® CONTROL 500

acc. to CPR UE 305/11, EN 50575:2014 + A1:2016, Eca

ELETTROTEK KABEL® GAALFLEX® CONTROL 500, Eca



### Construction:

|                      |  |
|----------------------|--|
| <b>Conductor:</b>    | flexible red copper conductor Cl.5,<br>acc. to IEC 60228, DIN VDE 0295                 |
| <b>Insulation:</b>   | special PVC compound   |
| <b>Colour cores:</b> | black cores with consecutive numbers<br>acc. to EN 50334,<br>green-yellow from 3 cores |
| <b>Stranding:</b>    | in layers  |
| <b>Outer sheath:</b> | grey (RAL 7001) special PVC compound   |

### Technical data:

|                              |                   |
|------------------------------|-------------------|
| <b>Nominal voltage:</b>      | Uo/U 300/500 V    |
| <b>Test voltage:</b>         | 4 kV              |
| <b>Temperature range</b>     |                   |
| <i>Fixed laying:</i>         | -40°C up to +80°C |
| <i>Flexible application:</i> | -15°C up to +80°C |
| <b>Min. bending radius:</b>  | 4 x d             |

### Resistance:



**Flame retardant and Self-extinguishing acc. to:**  
DIN VDE 0482 part 265-2-1  
EN 50265-2-1  
IEC 60332-1-2



**Oil resistance acc. to:**  
DIN VDE 0473 part 811-2-1  
IEC EN 60811-2-1

### Features:

flexible  
numbered cores  
small bending radius  
on request black outer sheath (identified with "7" on the 7th number of the Part no.)  
acc. to CPR UE 305/11, EN 50575:2014 + A1:2016, Eca  
classification (CEI UNEL 35016), EN 13501-6  
RoHS and CE approval



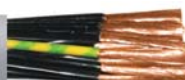
| Part no.       | No. of cores<br>x cross section<br>n x mm <sup>2</sup> | Outer-Ø<br>ca. mm<br>± 10% | Copper<br>weight<br>kg/km | Cable<br>weight approx.<br>kg/km | AWG<br>no. (*) |
|----------------|--|----------------------------|---------------------------|----------------------------------|----------------|
| 31010D51020M05 | 2 x 0,5  | 4,7                        | 9,6                       | 37                               | 20             |
| 31010D50031M05 | 3 G 0,5  | 4,9                        | 14,4                      | 43                               | 20             |
| 31010D50041M05 | 4 G 0,5  | 5,3                        | 19,2                      | 52                               | 20             |
| 31010D50051M05 | 5 G 0,5  | 5,7                        | 24                        | 64                               | 20             |
| 31010D50071M05 | 7 G 0,5  | 6,7                        | 33,6                      | 80                               | 20             |
| 31010D50081M05 | 8 G 0,5  | 7,0                        | 38,4                      | 99                               | 20             |
| 31010D50091M05 | 9 G 0,5  | 7,6                        | 43,2                      | 110                              | 20             |
| 31010D50101M05 | 10 G 0,5   | 8,1                        | 48                        | 117                              | 20             |
| 31010D50121M05 | 12 G 0,5   | 8,6                        | 57,6                      | 132                              | 20             |
| 31010D50141M05 | 14 G 0,5   | 9                          | 67,2                      | 148                              | 20             |
| 31010D50161M05 | 16 G 0,5   | 9,5                        | 76,8                      | 171                              | 20             |
| 31010D50181M05 | 18 G 0,5   | 10,4                       | 86,4                      | 189                              | 20             |
| 31010D50211M05 | 21 G 0,5   | 10,9                       | 100,8                     | 225                              | 20             |
| 31010D50251M05 | 25 G 0,5   | 12,1                       | 120                       | 260                              | 20             |
| 31010D50301M05 | 30 G 0,5   | 12,6                       | 144                       | 298                              | 20             |
| 31010D50341M05 | 34 G 0,5   | 13,8                       | 163,2                     | 341                              | 20             |
| 31010D50401M05 | 40 G 0,5   | 14,8                       | 192                       | 399                              | 20             |
| 31010D50421M05 | 42 G 0,5   | 15,2                       | 201,6                     | 414                              | 20             |
| 31010D50501M05 | 50 G 0,5   | 17,5                       | 240                       | 485                              | 20             |
| 31010D50611M05 | 61 G 0,5   | 18                         | 292,8                     | 529                              | 20             |
| 31010D50651M05 | 65 G 0,5   | 18,5                       | 312                       | 619                              | 20             |
| 31010D50801M05 | 80 G 0,5   | 20,1                       | 384                       | 752                              | 20             |

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| Part no.       | No. of cores<br>x cross section<br>n x mm <sup>2</sup> | Outer-Ø<br>ca. mm<br>± 10% | Copper<br>weight<br>kg/km | Cable<br>weight approx.<br>kg/km | AWG<br>no. *) |
|----------------|--|----------------------------|---------------------------|----------------------------------|---------------|
| 31010D51020M07 | 2 x 0,75   | 5                          | 14,4                      | 47                               | 19            |
| 31010D50031M07 | 3 G 0,75   | 5,3                        | 21,6                      | 59                               | 19            |
| 31010D50041M07 | 4 G 0,75   | 6                          | 28,8                      | 71                               | 19            |
| 31010D50051M07 | 5 G 0,75   | 6,6                        | 36                        | 84                               | 19            |
| 31010D50071M07 | 7 G 0,75   | 7,1                        | 50,4                      | 110                              | 19            |
| 31010D50081M07 | 8 G 0,75   | 7,9                        | 57,6                      | 136                              | 19            |
| 31010D50091M07 | 9 G 0,75   | 8,5                        | 64,8                      | 152                              | 19            |
| 31010D50101M07 | 10 G 0,75  | 8,9                        | 72                        | 159                              | 19            |
| 31010D50121M07 | 12 G 0,75  | 9,5                        | 86,4                      | 181                              | 19            |
| 31010D50141M07 | 14 G 0,75  | 10,3                       | 100,8                     | 203                              | 19            |
| 31010D50161M07 | 16 G 0,75  | 10,7                       | 115,2                     | 234                              | 19            |
| 31010D50181M07 | 18 G 0,75  | 11,1                       | 129,6                     | 258                              | 19            |
| 31010D50211M07 | 21 G 0,75  | 12,6                       | 151,2                     | 305                              | 19            |
| 31010D50251M07 | 25 G 0,75  | 13,3                       | 180                       | 354                              | 19            |
| 31010D50301M07 | 30 G 0,75  | 14,4                       | 216                       | 417                              | 19            |
| 31010D50341M07 | 34 G 0,75  | 15,2                       | 244,8                     | 473                              | 19            |
| 31010D50401M07 | 40 G 0,75  | 16,2                       | 288                       | 546                              | 19            |
| 31010D50421M07 | 42 G 0,75  | 16,6                       | 302,4                     | 565                              | 19            |
| 31010D50501M07 | 50 G 0,75  | 18,2                       | 360                       | 672                              | 19            |
| 31010D50611M07 | 61 G 0,75  | 20                         | 439,2                     | 803                              | 19            |
| 31010D50651M07 | 65 G 0,75  | 20,9                       | 468                       | 869                              | 19            |
| 31010D50801M07 | 80 G 0,75  | 22,2                       | 576                       | 1040                             | 19            |
| 31010D51020M10 | 2 x 1  | 5,3                        | 19,2                      | 53                               | 18            |
| 31010D50031M10 | 3 G 1  | 5,6                        | 28,8                      | 67                               | 18            |
| 31010D50041M10 | 4 G 1  | 6,3                        | 38,4                      | 82                               | 18            |
| 31010D50051M10 | 5 G 1  | 6,9                        | 48                        | 101                              | 18            |
| 31010D50071M10 | 7 G 1  | 7,6                        | 67,2                      | 128                              | 18            |
| 31010D50081M10 | 8 G 1  | 8,3                        | 76,8                      | 157                              | 18            |
| 31010D50091M10 | 9 G 1  | 9,2                        | 86,4                      | 181                              | 18            |
| 31010D50101M10 | 10 G 1   | 9,5                        | 96                        | 189                              | 18            |
| 31010D50121M10 | 12 G 1   | 10                         | 115,2                     | 211                              | 18            |
| 31010D50141M10 | 14 G 1   | 10,8                       | 134,4                     | 244                              | 18            |
| 31010D50161M10 | 16 G 1   | 11,4                       | 153,6                     | 273                              | 18            |
| 31010D50181M10 | 18 G 1   | 12,2                       | 172,8                     | 309                              | 18            |
| 31010D50211M10 | 21 G 1   | 13                         | 201,6                     | 363                              | 18            |
| 31010D50251M10 | 25 G 1   | 14,1                       | 240                       | 422                              | 18            |
| 31010D50301M10 | 30 G 1   | 15,3                       | 288                       | 488                              | 18            |
| 31010D50341M10 | 34 G 1   | 16,3                       | 326,4                     | 556                              | 18            |
| 31010D50401M10 | 40 G 1   | 17,6                       | 384                       | 651                              | 18            |
| 31010D50421M10 | 42 G 1   | 18,1                       | 403,2                     | 677                              | 18            |
| 31010D50501M10 | 50 G 1   | 19,5                       | 480                       | 792                              | 18            |
| 31010D50611M10 | 61 G 1   | 21,1                       | 585,6                     | 959                              | 18            |
| 31010D50651M10 | 65 G 1   | 22,4                       | 624                       | 1024                             | 18            |
| 31010D50801M10 | 80 G 1   | 24,2                       | 768                       | 1243                             | 18            |

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| Part no.       | No. of cores<br>x cross section<br>n x mm <sup>2</sup> | Outer-Ø<br>ca. mm<br>± 10% | Copper<br>weight<br>kg/km | Cable<br>weight approx.<br>kg/km | AWG<br>no. *) |
|----------------|--|----------------------------|---------------------------|----------------------------------|---------------|
| 31010D51020M15 | 2 x 1,5  | 6,1                        | 28,8                      | 71                               | 16            |
| 31010D50031M15 | 3 G 1,5  | 6,5                        | 43,2                      | 87                               | 16            |
| 31010D50041M15 | 4 G 1,5  | 7                          | 57,6                      | 109                              | 16            |
| 31010D50051M15 | 5 G 1,5  | 8                          | 72                        | 130                              | 16            |
| 31010D50071M15 | 7 G 1,5  | 8,6                        | 100,8                     | 172                              | 16            |
| 31010D50081M15 | 8 G 1,5  | 9,4                        | 115,2                     | 210                              | 16            |
| 31010D50091M15 | 9 G 1,5  | 10,4                       | 129,6                     | 234                              | 16            |
| 31010D50101M15 | 10 G 1,5   | 10,5                       | 144                       | 246                              | 16            |
| 31010D50121M15 | 12 G 1,5   | 11,1                       | 172,8                     | 282                              | 16            |
| 31010D50141M15 | 14 G 1,5   | 12,2                       | 201,6                     | 325                              | 16            |
| 31010D50161M15 | 16 G 1,5   | 12,7                       | 230,4                     | 365                              | 16            |
| 31010D50181M15 | 18 G 1,5   | 13,7                       | 259,2                     | 413                              | 16            |
| 31010D50211M15 | 21 G 1,5   | 14,7                       | 302,4                     | 486                              | 16            |
| 31010D50251M15 | 25 G 1,5   | 16,1                       | 360                       | 570                              | 16            |
| 31010D50301M15 | 30 G 1,5   | 17,1                       | 432                       | 669                              | 16            |
| 31010D50341M15 | 34 G 1,5   | 19                         | 489,6                     | 760                              | 16            |
| 31010D50401M15 | 40 G 1,5   | 20,1                       | 576                       | 891                              | 16            |
| 31010D50421M15 | 42 G 1,5   | 20,5                       | 604,8                     | 926                              | 16            |
| 31010D50501M15 | 50 G 1,5   | 22,8                       | 720                       | 1089                             | 16            |
| 31010D50611M15 | 61 G 1,5   | 24,2                       | 878,4                     | 1315                             | 16            |
| 31010D50651M15 | 65 G 1,5   | 24,7                       | 936                       | 1419                             | 16            |
| 31010D50801M15 | 80 G 1,5   | 27,8                       | 1152                      | 1709                             | 16            |
| 31010D51020M25 | 2 x 2,5  | 7,2                        | 48                        | 107                              | 14            |
| 31010D50031M25 | 3 G 2,5  | 7,9                        | 72                        | 133                              | 14            |
| 31010D50041M25 | 4 G 2,5  | 8,6                        | 96                        | 166                              | 14            |
| 31010D50051M25 | 5 G 2,5  | 9,5                        | 120                       | 205                              | 14            |
| 31010D50071M25 | 7 G 2,5  | 10,6                       | 168                       | 264                              | 14            |
| 31010D50081M25 | 8 G 2,5  | 11,7                       | 192                       | 327                              | 14            |
| 31010D50091M25 | 9 G 2,5  | 12,8                       | 216                       | 368                              | 14            |
| 31010D50101M25 | 10 G 2,5   | 13,6                       | 240                       | 384                              | 14            |
| 31010D50121M25 | 12 G 2,5   | 14,1                       | 288                       | 441                              | 14            |
| 31010D50141M25 | 14 G 2,5   | 14,9                       | 336                       | 508                              | 14            |
| 31010D50161M25 | 16 G 2,5   | 15,7                       | 384                       | 572                              | 14            |
| 31010D50181M25 | 18 G 2,5   | 16,9                       | 432                       | 641                              | 14            |
| 31010D50211M25 | 21 G 2,5   | 18,1                       | 504                       | 766                              | 14            |
| 31010D50251M25 | 25 G 2,5   | 19,8                       | 600                       | 888                              | 14            |
| 31010D50031M40 | 3 G 4  | 9,3                        | 115,2                     | 196                              | 12            |
| 31010D50041M40 | 4 G 4  | 10,5                       | 153,6                     | 247                              | 12            |
| 31010D50051M40 | 5 G 4  | 11,4                       | 192                       | 305                              | 12            |
| 31010D50071M40 | 7 G 4  | 12,8                       | 268,8                     | 400                              | 12            |
| 31010D50121M40 | 12 G 4   | 16,9                       | 461                       | 660                              | 12            |
| 31010D50031M60 | 3 G 6  | 10,9                       | 172,8                     | 286                              | 10            |
| 31010D50041M60 | 4 G 6  | 12,1                       | 230,4                     | 353                              | 10            |
| 31010D50051M60 | 5 G 6  | 13,5                       | 288                       | 443                              | 10            |
| 31010D50071M60 | 7 G 6  | 14,9                       | 403,3                     | 580                              | 10            |
| 31010D50041M61 | 4 G 10   | 15,5                       | 384                       | 600                              | 8             |
| 31010D50051M61 | 5 G 10   | 17,3                       | 480                       | 750                              | 8             |
| 31010D50071M61 | 7 G 10   | 19,0                       | 672                       | 981                              | 8             |
| 31010D50041M62 | 4 G 16   | 18,8                       | 614,4                     | 918                              | 6             |
| 31010D50051M62 | 5 G 16   | 20,5                       | 768                       | 1138                             | 6             |
| 31010D50071M62 | 7 G 16   | 23                         | 1075,2                    | 1494                             | 6             |
| 31010D50041M63 | 4 G 25   | 22,6                       | 960                       | 1438                             | 4             |
| 31010D50051M63 | 5 G 25   | 25,6                       | 1200                      | 1803                             | 4             |
| 31010D50071M63 | 7 G 25   | 28,2                       | 1680                      | 2362                             | 4             |
| 31010D50041M64 | 4 G 35   | 26                         | 1344                      | 1985                             | 2             |
| 31010D50051M64 | 5 G 35   | 29,4                       | 1680                      | 2483                             | 2             |
| 31010D50071M64 | 7 G 35   | 33,3                       | 2352                      | 3259                             | 2             |
| 31010D50041M65 | 4 G 50   | 32,3                       | 1920                      | 2714                             | 1             |

Other dimensions and colours available on request.