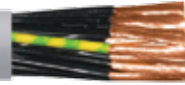


CONTROL AND CONNECTION CABLES

GAALFLEX® CONTROL 500 FL OR

PVC control cable, acc. to CEI 20-22/2 comparable to (as far applicable) IEC 60332-3A , 450/750V

ELETTROTEK KABEL® GAALFLEX® CONTROL 500 FL OR



Construction:

| | |
|----------------------|--|
| Conductor: | flexible red copper conductor Cl.5, acc.to CEI 20-29, DIN VDE 0295 |
| Insulation: | PVC type T11, acc. to CEI 20-11, VDE 0207 |
| Colour cores: | black cores with consecutive numbers acc. to EN 50334, green-yellow from 3 cores |
| Stranding: | in layers |
| Outer sheath: | grey (RAL 7001) PVC type TM2, acc. to CEI 20-11, VDE 0207 |

Resistance:



Flame retardant and Self-extinguishing acc. to:

CEI 20-22/1
CEI 20-22/2 comparable to (as far applicable)
IEC 60332-3A
CEI 20-22/4 IV° Ed. 1996



Corrosiveness of conflagration gases acc. to:

CEI 20-37/2 II° Ed. 1997
comparable to (as far applicable)
EN 50267-2
IEC 60754-2



Oil resistance acc. to:

CEI 20-34/2-1
CEI EN 60811-2-1

Technical data:

| | |
|-------------------------------|-----------------------------|
| Nominal voltage: | U ₀ /U 450/750 V |
| Test voltage: | 4 kV |
| Temperature range | |
| <i>Fixed laying:</i> | -40°C up to +80°C |
| <i>Flexible application:</i> | -5°C up to +70°C |
| Min. bending radius: | |
| <i>Fixed laying:</i> | 4 x d |
| <i>Flexible installation:</i> | 15 x d |

Features:

acc. to CEI 20-11, CEI 20-20/1, CEI 20-20 IV° Ed. 1996
flexible
numbered cores
small bending radius
on request black outer sheath
RoHS and CE approval



| Part no. | No. of cores x cross section n x mm ² | Outer-Ø ca.mm ± 10% | Copper weight kg/km | Cable weight approx. kg/km | AWG no.®) |
|----------------|--|---------------------------|---------------------------|----------------------------------|--------------|
| 31450E51020M05 | 2 x 0,5 | 4,8 | 9,6 | 34 | 20 |
| 31450E50031M05 | 3 G 0,5 | 5,1 | 14,4 | 41 | 20 |
| 31450E50041M05 | 4 G 0,5 | 5,5 | 19,2 | 49 | 20 |
| 31450E50051M05 | 5 G 0,5 | 6,3 | 24 | 64 | 20 |
| 31450E50061M05 | 6 G 0,5 | 6,8 | 28,8 | 75 | 20 |
| 31450E50071M05 | 7 G 0,5 | 6,8 | 33,6 | 78 | 20 |
| 31450E50081M05 | 8 G 0,5 | 8,1 | 38,4 | 105 | 20 |
| 31450E50091M05 | 9 G 0,5 | 8,5 | 43,2 | 116 | 20 |
| 31450E50101M05 | 10 G 0,5 | 8,6 | 48 | 121 | 20 |
| 31450E50121M05 | 12 G 0,5 | 9,1 | 57,6 | 139 | 20 |
| 31450E50141M05 | 14 G 0,5 | 9,5 | 67,2 | 154 | 20 |
| 31450E50161M05 | 16 G 0,5 | 10 | 76,8 | 172 | 20 |
| 31450E50181M05 | 18 G 0,5 | 10,8 | 86,4 | 199 | 20 |
| 31450E50191M05 | 19 G 0,5 | 10,8 | 91,2 | 202 | 20 |
| 31450E50241M05 | 24 G 0,5 | 12,5 | 115,2 | 266 | 20 |
| 31450E50251M05 | 25 G 0,5 | 12,5 | 120 | 270 | 20 |
| 31450E50341M05 | 34 G 0,5 | 14,9 | 163,2 | 378 | 20 |
| 31450E50371M05 | 37 G 0,5 | 14,9 | 177,6 | 388 | 20 |
| 31450E50421M05 | 42 G 0,5 | 15,9 | 201,6 | 441 | 20 |
| 31450E50501M05 | 50 G 0,5 | 17,6 | 240 | 536 | 20 |
| 31450E50561M05 | 56 G 0,5 | 18,4 | 268,8 | 590 | 20 |
| 31450E50611M05 | 61 G 0,5 | 18,7 | 292,8 | 620 | 20 |

CONTROL AND CONNECTION CABLES

GAALFLEX® CONTROL 500 FL OR

PVC control cable, acc. to CEI 20-22/2 comparable to (as far applicable) IEC 60332-3A , 450/750 V

ELETTROTEK KABEL® GAALFLEX® CONTROL 500 FL OR



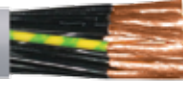
| Part no. | No. of cores x cross section n x mm ² | Outer-Ø ca. mm ± 10% | Copper weight kg/km | Cable weight approx. kg/km | AWG no. *) |
|----------------|--|----------------------------|---------------------------|----------------------------------|---------------|
| 31450E51020M07 | 2 x 0,75 | 5,2 | 14,4 | 42 | 19 |
| 31450E50031M07 | 3 G 0,75 | 5,5 | 21,6 | 51 | 19 |
| 31450E50041M07 | 4 G 0,75 | 6,2 | 28,8 | 66 | 19 |
| 31450E50051M07 | 5 G 0,75 | 6,8 | 36 | 80 | 19 |
| 31450E50061M07 | 6 G 0,75 | 7,6 | 43,2 | 99 | 19 |
| 31450E50071M07 | 7 G 0,75 | 7,6 | 50,4 | 104 | 19 |
| 31450E50081M07 | 8 G 0,75 | 9 | 57,6 | 136 | 19 |
| 31450E50091M07 | 9 G 0,75 | 9,4 | 64,8 | 150 | 19 |
| 31450E50101M07 | 10 G 0,75 | 9,6 | 72 | 160 | 19 |
| 31450E50121M07 | 12 G 0,75 | 9,9 | 86,4 | 177 | 19 |
| 31450E50141M07 | 14 G 0,75 | 10,6 | 100,8 | 204 | 19 |
| 31450E50161M07 | 16 G 0,75 | 11,1 | 115,2 | 227 | 19 |
| 31450E50181M07 | 18 G 0,75 | 12 | 129,6 | 262 | 19 |
| 31450E50191M07 | 19 G 0,75 | 12 | 136,8 | 267 | 19 |
| 31450E50241M07 | 24 G 0,75 | 13,8 | 172,8 | 347 | 19 |
| 31450E50251M07 | 25 G 0,75 | 13,9 | 180 | 356 | 19 |
| 31450E50341M07 | 34 G 0,75 | 16,5 | 244,8 | 495 | 19 |
| 31450E50371M07 | 37 G 0,75 | 16,5 | 266,4 | 510 | 19 |
| 31450E50421M07 | 42 G 0,75 | 17,8 | 302,4 | 589 | 19 |
| 31450E50501M07 | 50 G 0,75 | 19,4 | 360 | 700 | 19 |
| 31450E50561M07 | 56 G 0,75 | 20,6 | 403,2 | 787 | 19 |
| 31450E50611M07 | 61 G 0,75 | 20,9 | 439,2 | 827 | 19 |
| 31450E51020M10 | 2 x 1 | 5,5 | 19,2 | 49 | 18 |
| 31450E50031M10 | 3 G 1 | 6,1 | 28,8 | 64 | 18 |
| 31450E50041M10 | 4 G 1 | 6,6 | 38,4 | 79 | 18 |
| 31450E50051M10 | 5 G 1 | 7,2 | 48,0 | 95 | 18 |
| 31450E50061M10 | 6 G 1 | 8 | 57,6 | 116 | 18 |
| 31450E50071M10 | 7 G 1 | 8 | 67,2 | 123 | 18 |
| 31450E50081M10 | 8 G 1 | 9,5 | 76,8 | 161 | 18 |
| 31450E50091M10 | 9 G 1 | 10 | 86,4 | 179 | 18 |
| 31450E50101M10 | 10 G 1 | 10,4 | 96 | 196 | 18 |
| 31450E50121M10 | 12 G 1 | 10,7 | 115,2 | 217 | 18 |
| 31450E50141M10 | 14 G 1 | 11,2 | 134,4 | 244 | 18 |
| 31450E50161M10 | 16 G 1 | 12 | 153,6 | 279 | 18 |
| 31450E50181M10 | 18 G 1 | 12,7 | 172,8 | 313 | 18 |
| 31450E50191M10 | 19 G 1 | 12,7 | 182,4 | 320 | 18 |
| 31450E50241M10 | 24 G 1 | 14,9 | 230,4 | 426 | 18 |
| 31450E50251M10 | 25 G 1 | 14,9 | 240 | 432 | 18 |
| 31450E50341M10 | 34 G 1 | 17,7 | 326,4 | 602 | 18 |
| 31450E50371M10 | 37 G 1 | 17,7 | 355,2 | 622 | 18 |
| 31450E50421M10 | 42 G 1 | 19,2 | 403,2 | 721 | 18 |
| 31450E50501M10 | 50 G 1 | 20,9 | 480 | 856 | 18 |
| 31450E50561M10 | 56 G 1 | 22,1 | 537,6 | 958 | 18 |
| 31450E50611M10 | 61 G 1 | 22,4 | 585,6 | 1008 | 18 |
| 31450E51020M15 | 2 x 1,5 | 6,3 | 28,8 | 68 | 16 |
| 31450E50031M15 | 3 G 1,5 | 6,7 | 43,2 | 84 | 16 |
| 31450E50041M15 | 4 G 1,5 | 7,5 | 57,6 | 108 | 16 |
| 31450E50051M15 | 5 G 1,5 | 8,2 | 72 | 131 | 16 |
| 31450E50061M15 | 6 G 1,5 | 9,1 | 86,4 | 160 | 16 |
| 31450E50071M15 | 7 G 1,5 | 9,1 | 100,8 | 171 | 16 |
| 31450E50081M15 | 8 G 1,5 | 10,8 | 115,2 | 221 | 16 |
| 31450E50091M15 | 9 G 1,5 | 11,3 | 129,6 | 245 | 16 |
| 31450E50101M15 | 10 G 1,5 | 11,8 | 144 | 269 | 16 |
| 31450E50121M15 | 12 G 1,5 | 12,1 | 172,8 | 298 | 16 |
| 31450E50141M15 | 14 G 1,5 | 12,7 | 201,6 | 336 | 16 |
| 31450E50161M15 | 16 G 1,5 | 13,6 | 230,4 | 385 | 16 |
| 31450E50181M15 | 18 G 1,5 | 14,4 | 259,2 | 433 | 16 |
| 31450E50191M15 | 19 G 1,5 | 14,4 | 273,6 | 443 | 16 |
| 31450E50241M15 | 24 G 1,5 | 16,8 | 345,6 | 583 | 16 |
| 31450E50251M15 | 25 G 1,5 | 16,8 | 360 | 594 | 16 |
| 31450E50341M15 | 34 G 1,5 | 20 | 489,6 | 827 | 16 |
| 31450E50371M15 | 37 G 1,5 | 20 | 532,8 | 858 | 16 |
| 31450E50421M15 | 42 G 1,5 | 21,6 | 604,8 | 989 | 16 |
| 31450E50501M15 | 50 G 1,5 | 23,8 | 720 | 1190 | 16 |
| 31450E50561M15 | 56 G 1,5 | 25,1 | 806,4 | 1328 | 16 |
| 31450E50611M15 | 61 G 1,5 | 25,4 | 878,4 | 1398 | 16 |

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ELETTROTEK KABEL® GAALFLEX® CONTROL 500 FL OR



| Part no. | No. of cores x cross section n x mm ² | Outer-Ø ca. mm ± 10% | Copper weight kg/km | Cable weight approx. kg/km | AWG no. *) |
|----------------|--|----------------------------|---------------------------|----------------------------------|---------------|
| 31450E51020M25 | 2 x 2,5 | 7,7 | 48 | 105 | 14 |
| 31450E50031M25 | 3 G 2,5 | 8,2 | 72 | 132 | 14 |
| 31450E50041M25 | 4 G 2,5 | 9,1 | 96 | 167 | 14 |
| 31450E50051M25 | 5 G 2,5 | 10 | 120 | 205 | 14 |
| 31450E50071M25 | 7 G 2,5 | 11,1 | 168 | 268 | 14 |
| 31450E50081M25 | 8 G 2,5 | 13,3 | 192 | 348 | 14 |
| 31450E50101M25 | 10 G 2,5 | 14,3 | 240 | 416 | 14 |
| 31450E50121M25 | 12 G 2,5 | 15 | 288 | 475 | 14 |
| 31450E50141M25 | 14 G 2,5 | 15,7 | 336 | 535 | 14 |
| 31450E50161M25 | 16 G 2,5 | 16,7 | 384 | 608 | 14 |
| 31450E50181M25 | 18 G 2,5 | 17,9 | 432 | 692 | 14 |
| 31450E50251M25 | 25 G 2,5 | 20,9 | 600 | 952 | 14 |
| 31450E50341M25 | 34 G 2,5 | 24,9 | 816 | 1325 | 14 |
| 31450E51020M40 | 2 x 4 | 9,2 | 76,8 | 155 | 12 |
| 31450E50031M40 | 3 G 4 | 9,7 | 115,2 | 194 | 12 |
| 31450E50041M40 | 4 G 4 | 10,9 | 153,6 | 251 | 12 |
| 31450E50051M40 | 5 G 4 | 12,1 | 192 | 312 | 12 |
| 31450E50071M40 | 7 G 4 | 13,4 | 268,8 | 407 | 12 |
| 31450E51020M60 | 2 x 6 | 10,8 | 115,2 | 221 | 10 |
| 31450E50031M60 | 3 G 6 | 11,5 | 172,8 | 281 | 10 |
| 31450E50041M60 | 4 G 6 | 12,8 | 230,4 | 360 | 10 |
| 31450E50051M60 | 5 G 6 | 14,3 | 288 | 450 | 10 |
| 31450E50071M60 | 7 G 6 | 15,9 | 403,2 | 591 | 10 |
| 31450E50031M61 | 3 G 10 | 14,7 | 288 | 463 | 8 |
| 31450E50041M61 | 4 G 10 | 16,3 | 384 | 591 | 8 |
| 31450E50051M61 | 5 G 10 | 18,2 | 480 | 738 | 8 |
| 31450E50071M61 | 7 G 10 | 20 | 672 | 958 | 8 |
| 31450E50031M62 | 3 G 16 | 17 | 460,8 | 363 | 6 |
| 31450E50041M62 | 4 G 16 | 18,8 | 614,4 | 864 | 6 |
| 31450E50051M62 | 5 G 16 | 21,2 | 768 | 1089 | 6 |
| 31450E50071M62 | 7 G 16 | 23,6 | 1075,2 | 1439 | 6 |
| 31450E50041M63 | 4 G 25 | 23,7 | 960,0 | 1359 | 4 |
| 31450E50051M63 | 5 G 25 | 26,6 | 1200 | 1705 | 4 |
| 31450E50071M63 | 7 G 25 | 29,5 | 1680 | 2246 | 4 |
| 31450E50041M64 | 4 G 35 | 26,9 | 1344 | 1826 | 2 |
| 31450E50051M64 | 5 G 35 | 30,2 | 1680 | 2291 | 2 |
| 31450E50031M65 | 3 G 50 | 31,1 | 1440 | 2181 | 1 |
| 31450E50041M65 | 4 G 50 | 34,2 | 1920 | 2767 | 1 |
| 31450E50041M66 | 4 G 70 | 39,2 | 2688 | 3733 | 2/0 |

Other dimensions and colours available on request.