



We Make
Modern Life
Possible



FLEXICS® 11

PVC/PUR control cable, unshielded

AUTOMATION AND MOTOR SUPPLY CABLES

Power, control and connecting cable for fixed laying and flexible applications, especially in wet areas of machine tools and transfer lines without mechanical stress and guided movements. Outdoor use only when protected from direct exposure to sunlight in accordance with the indicated temperature range.



TECHNICAL DATA



Standard

Based on VDE 0285



Test Voltage

4000 V / 50 Hz



Rated Voltage

300/500 V (U₀/U)



Bending radius (min.)

Fixed installation: 4 x Ø of cable

Flexible use: 12.5 x Ø of cable



Core identification

Black (continuously numbered), from 3 cores with green/yellow ground conductor



Temperature range

Fixed installation: -40°C up to 80°C

Flexible use: -5°C up to 70°C

DESIGN



- 1 Bare copper conductors, fine wires class 5 according to DIN EN 60228 / VDE 0295 / IEC 60228
- 2 Core insulation of special compound based on polyvinyl chloride (PVC)
- 3 Cores are stranded in layers with optimal lay-length
- 4 Non-woven tape separation (optional)
- 5 Special polyurethane (PUR) outer sheath, colour: grey (RAL 7001)

| Number of cores x nominal cross-section (mm ²) | Outer diameter appr. (mm) | Cu-value (kg/km) | Total weight appr. (kg/km) |
|--|---------------------------|------------------|----------------------------|
| 2 x 0.5 | 4.8 | 9.6 | 45 |
| 3 G 0.5 | 5.1 | 14.4 | 55 |
| 4 G 0.5 | 5.7 | 19.2 | 62 |
| 5 G 0.5 | 6.2 | 24 | 75 |
| 7 G 0.5 | 7.2 | 33.6 | 90 |
| 10 G 0.5 | 8.8 | 48 | 120 |
| 12 G 0.5 | 9.1 | 58 | 135 |
| 18 G 0.5 | 10.7 | 86.4 | 205 |
| 25 G 0.5 | 13.2 | 120 | 270 |
| 34 G 0.5 | 14.7 | 163 | 380 |
| 42 G 0.5 | 15.8 | 202 | 415 |
| 2 x 0.75 | 5.4 | 14.4 | 44 |
| 3 G 0.75 | 5.7 | 21.6 | 53 |
| 4 G 0.75 | 6.2 | 29 | 64 |
| 5 G 0.75 | 6.8 | 36 | 76 |
| 5 G 0.75 | 6.8 | 36 | 76 |
| 10 G 0.75 | 9.6 | 72 | 140 |
| 12 G 0.75 | 9.9 | 86 | 170 |
| 18 G 0.75 | 11.9 | 130 | 260 |
| 25 G 0.75 | 14.5 | 180 | 282 |
| 34 G 0.75 | 16.3 | 245 | 475 |
| 42 G 0.75 | 17.7 | 302 | 600 |
| 2 x 1 | 6.9 | 19.2 | 72 |
| 3 G 1 | 7.3 | 29 | 85 |
| 4 G 1 | 8.1 | 38.4 | 106 |
| 5 G 1 | 9.0 | 48 | 130 |
| 7 G 1 | 9.8 | 67 | 162 |
| 10 G 1 | 12.8 | 96 | 242 |
| 12 G 1 | 13.0 | 115 | 265 |
| 18 G 1 | 15.5 | 173 | 386 |
| 25 G 1 | 18.7 | 240 | 532 |
| 34 G 1 | 21.5 | 326 | 750 |
| 42 G 1 | 25.6 | 480 | 1100 |
| 50 G 1 | 27.5 | 586 | 1266 |
| 2 x 1.5 | 6.2 | 28.8 | 68 |
| 3 G 1.5 | 6.6 | 43 | 87 |
| 4 G 1.5 | 7.2 | 58 | 106 |
| 5 G 1.5 | 8.2 | 72 | 131 |
| 7 G 1.5 | 9.8 | 101 | 173 |
| 12 G 1.5 | 12.0 | 173 | 293 |
| 18 G 1.5 | 14.5 | 259 | 454 |
| 25 G 1.5 | 17.8 | 360 | 641 |
| 30 G 1.5 | 18.0 | 410 | 800 |
| 2 x 2.5 | 7.8 | 48 | 110 |
| 3 G 2.5 | 8.3 | 72 | 146 |
| 4 G 2.5 | 9.2 | 96 | 183 |
| 5 G 2.5 | 10.1 | 120 | 222 |
| 7 G 2.5 | 12.3 | 168 | 293 |
| 12 G 2.5 | 15.3 | 288 | 512 |
| 4 G 4 | 11.0 | 154 | 291 |
| 5 G 4 | 12.7 | 192 | 355 |
| 7 G 4 | 14.0 | 269 | 503 |



| Number of cores x nominal cross-section (mm ²) | Outer diameter appr. (mm) | Cu-value (kg/km) | Total weight appr. (kg/km) |
|--|---------------------------|------------------|----------------------------|
| 4 G 6 | 13.4 | 230 | 468 |
| 5 G 6 | 14.9 | 288 | 570 |
| 7 G 6 | 16.5 | 403 | 808 |
| 4 G 10 | 16.9 | 384 | 720 |
| 5 G 10 | 18.7 | 480 | 894 |
| 7 G 10 | 20.9 | 672 | 1295 |
| 4 G 16 | 19.8 | 614 | 1063 |

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