



Technical data:

Control cable with numbered conductors, with halogen-free insulation and sheath

Operating temperature:

Fixed systems: -30°C to 80°C

Mobile systems: -5°C to 70°C

Operating voltage: $U_0/U = 300/500$ V

Test voltage 50Hz: 3000V

Insulation resistance: 20 MΩ x km

Min. bending radius:

Flexible connections: 10 x Ø

Fixed installations: 5 x Ø

Construction:

Conductors: multi-stranded copper conductors, PN-EN 60228 cl.5

Insulation: special halogen-free polymer

Conductor marking: black conductors, numbered, G - yellow-green conductor

Stranding element: parallel twisted wires

Sheath: special halogen-free polymer, self-extinguishing and flame retardant (as per PN-EN 60332-1 test performed on a single cable, and PN-EN 60332-3-24, IEC 60332-3, test on the cable bundle, category C), UV- Resistant

Sheath colour: grey, brown on request

Application:

The cables are intended for usage in power engineering control and protective devices, control circuits, and for supplying electricity to low power receivers.

Suitable for both fixed installation and movable connections in industrial equipment, process lines, and machines operating in dry and damp rooms - also for mobile/portable receivers.

They are suitable for limited external applications.



internal application



industrial application



PN-EN 60332-1



IEC 60332-3
PN-EN 60332-3



halogen-free



oxygen index



high flexibility



UV resistant

| n x mm ² | Outer diameter [mm] | Approximate cable weight [kg/km] | Cu [kg/km] |
|---------------------|---------------------|----------------------------------|------------|
| 2 x 0,5 | 5,0 | 35,7 | 9,6 |
| 3 G 0,5 | 5,3 | 42,5 | 14,4 |
| 3 x 0,5 | 5,3 | 42,5 | 14,4 |
| 4 G 0,5 | 5,7 | 50,8 | 19,2 |
| 4 x 0,5 | 5,7 | 50,8 | 19,2 |
| 5 G 0,5 | 6,2 | 61,4 | 24,0 |
| 5 x 0,5 | 6,2 | 61,4 | 24,0 |
| 6 G 0,5 | 7,0 | 74,5 | 28,8 |
| 7 G 0,5 | 7,0 | 78,3 | 33,6 |
| 7 x 0,5 | 7,0 | 78,3 | 33,6 |
| 8 G 0,5 | 7,7 | 90,9 | 38,4 |
| 8 x 0,5 | 7,7 | 90,9 | 38,4 |
| 10 G 0,5 | 9,1 | 117,5 | 48,0 |
| 12 G 0,5 | 9,4 | 131,5 | 57,6 |
| 12 x 0,5 | 9,4 | 131,5 | 57,6 |
| 14 G 0,5 | 9,8 | 147,0 | 67,2 |
| 16 G 0,5 | 10,3 | 165,4 | 76,8 |
| 18 G 0,5 | 10,9 | 182,8 | 86,4 |
| 19 G 0,5 | 10,9 | 186,6 | 91,2 |
| 20 G 0,5 | 11,6 | 201,6 | 96,0 |
| 21 G 0,5 | 11,6 | 210,6 | 100,8 |
| 24 G 0,5 | 12,8 | 238,7 | 115,2 |
| 27 G 0,5 | 13,1 | 259,6 | 129,6 |
| 30 G 0,5 | 13,7 | 288,9 | 144,0 |
| 37 G 0,5 | 14,8 | 342,9 | 177,6 |
| 2 x 0,75 | 5,4 | 43,5 | 14,4 |
| 3 G 0,75 | 5,7 | 52,5 | 21,6 |
| 3 x 0,75 | 5,7 | 52,5 | 21,6 |
| 4 G 0,75 | 6,2 | 63,4 | 28,8 |
| 4 x 0,75 | 6,2 | 63,4 | 28,8 |
| 5 G 0,75 | 7,0 | 80,7 | 36,0 |
| 5 x 0,75 | 7,0 | 80,7 | 36,0 |
| 6 G 0,75 | 7,6 | 94,6 | 43,2 |
| 6 x 0,75 | 7,6 | 94,6 | 43,2 |
| 7 G 0,75 | 7,6 | 98,5 | 50,4 |
| 7 x 0,75 | 7,6 | 98,5 | 50,4 |

| n x mm ² | Outer diameter [mm] | Approximate cable weight [kg/km] | Cu [kg/km] |
|---------------------|---------------------|----------------------------------|------------|
| 8 G 0,75 | 8,3 | 114,2 | 57,6 |
| 8 x 0,75 | 8,3 | 114,2 | 57,6 |
| 10 G 0,75 | 9,9 | 147,2 | 72,0 |
| 12 G 0,75 | 10,2 | 165,8 | 86,4 |
| 12 x 0,75 | 10,2 | 165,8 | 86,4 |
| 14 G 0,75 | 10,7 | 186,2 | 100,8 |
| 16 G 0,75 | 11,5 | 216,1 | 115,2 |
| 18 G 0,75 | 12,1 | 239,9 | 129,6 |
| 19 G 0,75 | 12,1 | 243,9 | 136,8 |
| 20 G 0,75 | 12,6 | 256,4 | 144,0 |
| 21 G 0,75 | 12,6 | 267,9 | 151,2 |
| 24 G 0,75 | 14,2 | 311,2 | 172,8 |
| 2 x 1,0 | 5,7 | 50,4 | 19,2 |
| 3 G 1,0 | 6,0 | 61,5 | 28,8 |
| 3 x 1,0 | 6,0 | 61,5 | 28,8 |
| 4 G 1,0 | 6,8 | 77,9 | 38,4 |
| 4 x 1,0 | 6,8 | 77,9 | 38,4 |
| 5 G 1,0 | 7,4 | 94,7 | 48,0 |
| 5 x 1,0 | 7,4 | 94,7 | 48,0 |
| 6 G 1,0 | 8,0 | 112,5 | 57,6 |
| 6 x 1,0 | 8,0 | 112,5 | 57,6 |
| 7 G 1,0 | 8,0 | 117,2 | 67,2 |
| 7 x 1,0 | 8,0 | 117,2 | 67,2 |
| 8 G 1,0 | 9,2 | 144,7 | 76,8 |
| 10 G 1,0 | 10,5 | 174,3 | 96,0 |
| 10 x 1,0 | 10,5 | 174,3 | 96,0 |
| 12 G 1,0 | 10,8 | 197,3 | 115,2 |
| 12 x 1,0 | 10,8 | 197,3 | 115,2 |
| 14 G 1,0 | 11,5 | 227,8 | 134,4 |
| 16 G 1,0 | 12,2 | 257,3 | 153,6 |
| 18 G 1,0 | 12,8 | 287,4 | 172,8 |
| 18 x 1,0 | 12,8 | 287,4 | 172,8 |
| 19 G 1,0 | 12,8 | 292,1 | 182,4 |
| 20 G 1,0 | 13,6 | 313,6 | 192,0 |
| 20 x 1,0 | 13,6 | 313,6 | 192,0 |
| 21 G 1,0 | 13,6 | 327,8 | 201,6 |

Flexible halogen-free control cables,
numbered conductors, 300/500 V

| n x mm ² | Outer diameter [mm] | Approximate cable weight [kg/km] | Cu [kg/km] |
|---------------------|---------------------|----------------------------------|------------|
| 24 G 1,0 | 15,1 | 372,4 | 230,4 |
| 2 x 1,5 | 6,4 | 66,5 | 28,8 |
| 3 G 1,5 | 7,0 | 85,6 | 43,2 |
| 3 x 1,5 | 7,0 | 85,6 | 43,2 |
| 4 G 1,5 | 7,6 | 104,5 | 57,6 |
| 4 x 1,5 | 7,6 | 104,5 | 57,6 |
| 5 G 1,5 | 8,3 | 127,8 | 72,0 |
| 5 x 1,5 | 8,3 | 127,8 | 72,0 |
| 6 G 1,5 | 9,5 | 160,6 | 86,4 |
| 7 G 1,5 | 9,5 | 168,5 | 100,8 |
| 7 x 1,5 | 9,5 | 168,5 | 100,8 |
| 8 G 1,5 | 10,4 | 195,8 | 115,2 |
| 10 G 1,5 | 12,1 | 242,1 | 144,0 |
| 12 G 1,5 | 12,5 | 275,0 | 172,8 |
| 12 x 1,5 | 12,5 | 275,0 | 172,8 |

| n x mm ² | Outer diameter [mm] | Approximate cable weight [kg/km] | Cu [kg/km] |
|---------------------|---------------------|----------------------------------|------------|
| 2 x 2,5 | 7,7 | 100,4 | 48,0 |
| 3 G 2,5 | 8,2 | 125,4 | 72,0 |
| 3 x 2,5 | 8,2 | 125,4 | 72,0 |
| 4 G 2,5 | 9,4 | 163,3 | 96,0 |
| 4 x 2,5 | 9,4 | 163,3 | 96,0 |
| 5 G 2,5 | 10,2 | 198,8 | 120,0 |
| 5 x 2,5 | 10,2 | 198,8 | 120,0 |
| 6 G 2,5 | 11,3 | 242,8 | 144,0 |
| 7 G 2,5 | 11,3 | 256,2 | 168,0 |
| 7 x 2,5 | 11,3 | 256,2 | 168,0 |
| 8 G 2,5 | 12,5 | 298,0 | 192,0 |
| 10 G 2,5 | 14,5 | 367,6 | 240,0 |
| 12 G 2,5 | 15,0 | 419,7 | 288,0 |
| 12 x 2,5 | 15,0 | 419,7 | 288,0 |

G - cables with a green-yellow conductor
x - cables without a green-yellow conductor

Note: If so requested by the customer, we can manufacture cables with a different number of conductors or cross sections different from those set forward in the table