

HALOGEN-FREE CABLES



SABIX® CC 625 SH FRNC M Control cable with numbered conductors, inner jacket and overall copper screen



Marking for SABIX® CC 625 SH FRNC M 62571612: SAB BRÖCKSKES · D-VIERSEN ·
62571215 12 x 1,5 mm² SABIX® CC 625 SH FRNC M 16AWG/12c 62571612 AWM Style 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

SABIX® CC 625 SH FRNC M is multi-conductor, shielded, flexible control cable with a smaller OD for tighter installations. It is designed for use in all electrical equipment in dry, damp, and wet conditions. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. Recommended applications include machine tools, assembly lines, control systems, data processing equipment, connections between control panels and machines, CNC machining centers, grinding machines and bottling equipment. In case of fire no corrosive gases are produced. This cable is particularly suitable for use where human life and valuable property are exposed to an extremely high risk of fire.

Construction:

| | |
|-------------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 |
| Insulation: | SABIX® 231 |
| Color code: | black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors |
| Stranding: | in layers |
| Inner jacket: | SABIX® 231 |
| Screen: | tinned copper braiding |
| Jacket material: | SABIX® 231 |
| Jacket color: | gray |

Outstanding features:

- halogen-free
- UL/CSA approved
- no flame propagation
- good EMC characteristics*
- flame retardant and self-extinguishing
- flexible

* Copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

| | |
|---|---|
| Nominal voltage: | UL/CSA: 600 V DIN VDE: U _o /U 300/500 V |
| Testing voltage: | 3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 1000 V |
| Min. bending radius <i>fixed installation:</i> <i>free movement:</i> | 5 x O.D. 10 x O.D. |
| Temperature range <i>static:</i> <i>flexing:</i> | DIN VDE: -40/+90 °C UL: up to +75 °C CSA: up to +80 °C -30/+90 °C |
| Zero halogen: | acc. to DIN VDE 0472 part 815 and IEC 60754-1 |
| Burning characteristics: | no flame propagation acc. to IEC 60332 + EN 50266 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2, CSA FT1 FT2 |
| Corrosivity: | in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases |
| Smoke density: | acc. to IEC 61034 + EN 61034 |
| Flexibility: | good |
| Absence of harmful substances: | acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25 |

| item no. | no. of conductors | nominal outer-Ø inch | nominal outer-Ø mm | cable weight ≈ lbs/mft |
|---|-------------------|----------------------|--------------------|------------------------|
| ▶ 20 AWG (17/32) • 0.50 mm² | | | | |
| 62572002 | 2 | 0.276 | 7.0 | 50 |
| 62572003 | 3 | 0.287 | 7.3 | 55 |
| 62572004 | 4 | 0.307 | 7.8 | 64 |
| 62572005 | 5 | 0.331 | 8.4 | 74 |
| 62572007 | 7 | 0.358 | 9.1 | 90 |
| 62572008 | 8 | 0.409 | 10.4 | 110 |
| 62572009 | 9 | 0.437 | 11.1 | 127 |
| 62572010 | 10 | 0.445 | 11.3 | 132 |
| 62572012 | 12 | 0.453 | 11.5 | 143 |
| 62572014 | 14 | 0.488 | 12.4 | 164 |
| 62572016 | 16 | 0.508 | 12.9 | 180 |
| 62572018 | 18 | 0.539 | 13.7 | 199 |
| 62572025 | 25 | 0.642 | 16.3 | 275 |
| 62572030 | 30 | 0.657 | 16.7 | 303 |
| 62572034 | 34 | 0.709 | 18.0 | 343 |
| 62572040 | 40 | 0.768 | 19.5 | 405 |
| 62572041 | 41 | 0.768 | 19.5 | 409 |
| 62572061 | 61 | 0.878 | 22.3 | 546 |

| item no. | no. of conductors | nominal outer-Ø inch | nominal outer-Ø mm | cable weight ≈ lbs/mft |
|---|-------------------|----------------------|--------------------|------------------------|
| ▶ 19 AWG (23/32) • 0.75 mm² | | | | |
| 62571902 | 2 | 0.299 | 7.6 | 58 |
| 62571903 | 3 | 0.311 | 7.9 | 65 |
| 62571904 | 4 | 0.331 | 8.4 | 76 |
| 62571905 | 5 | 0.366 | 9.3 | 90 |
| 62571907 | 7 | 0.390 | 9.9 | 108 |
| 62571908 | 8 | 0.453 | 11.5 | 140 |
| 62571909 | 9 | 0.484 | 12.3 | 155 |
| 62571910 | 10 | 0.500 | 12.7 | 164 |
| 62571912 | 12 | 0.512 | 13.0 | 179 |
| 62571914 | 14 | 0.539 | 13.7 | 200 |
| 62571916 | 16 | 0.563 | 14.3 | 220 |
| 62571918 | 18 | 0.594 | 15.1 | 243 |
| 62571925 | 25 | 0.709 | 18.0 | 335 |
| 62571930 | 30 | 0.736 | 18.7 | 378 |
| 62571934 | 34 | 0.791 | 20.1 | 427 |
| 62571940 | 40 | 0.850 | 21.6 | 494 |
| 62571941 | 41 | 0.850 | 21.6 | 501 |
| 62571961 | 61 | 0.992 | 25.2 | 691 |

| item no. | no. of conductors | nominal outer-Ø inch | nominal outer-Ø mm | cable weight ≈ lbs/mft |
|---|-------------------|----------------------|--------------------|------------------------|
| ▶ 18 AWG (30/32) • 1.00 mm² | | | | |
| 62571802 | 2 | 0.307 | 7.8 | 63 |
| 62571803 | 3 | 0.323 | 8.2 | 73 |
| 62571804 | 4 | 0.350 | 8.9 | 87 |
| 62571805 | 5 | 0.374 | 9.5 | 100 |
| 62571807 | 7 | 0.409 | 10.4 | 123 |
| 62571808 | 8 | 0.480 | 12.2 | 162 |
| 62571809 | 9 | 0.508 | 12.9 | 177 |
| 62571810 | 10 | 0.524 | 13.3 | 186 |
| 62571812 | 12 | 0.535 | 13.6 | 204 |
| 62571814 | 14 | 0.555 | 14.1 | 226 |
| 62571818 | 18 | 0.622 | 15.8 | 289 |
| 62571825 | 25 | 0.740 | 18.8 | 384 |
| 62571830 | 30 | 0.772 | 19.6 | 442 |
| 62571834 | 34 | 0.827 | 21.0 | 492 |
| 62571840 | 40 | 0.886 | 22.5 | 568 |
| 62571841 | 41 | 0.886 | 22.5 | 576 |
| 62571861 | 61 | 1.035 | 26.3 | 800 |

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| Temperature range <i>static:</i> <i>flexing:</i> | DIN VDE: -40/+90 °C UL: up to +75 °C CSA: up to +80 °C -30/+90 °C |
| Zero halogen: | acc. to DIN VDE 0472 part 815 and IEC 60754-1 |
| Burning characteristics: | no flame propagation acc. to IEC 60332 + EN 50266 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2, CSA FT1 FT2 |
| Corrosivity: | in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases |
| Smoke density: | acc. to IEC 61034 + EN 61034 |
| Flexibility: | good |
| Absence of harmful substances: | acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25 |

| item no. | no. of conductors | nominal outer- inch | outer- mm | cable weight ≈ lbs/mft |
|--------------------------------|-------------------|------------------------|--------------|---------------------------|
| ▶ 16 AWG (27-29/30) • 1.50 mm² | | | | |
| 62571602 | 2 | 0.331 | 8.4 | 75 |
| 62571603 | 3 | 0.354 | 9.0 | 91 |
| 62571604 | 4 | 0.378 | 9.6 | 106 |
| 62571605 | 5 | 0.421 | 10.7 | 134 |
| 62571607 | 7 | 0.453 | 11.5 | 163 |
| 62571608 | 8 | 0.531 | 13.5 | 202 |
| 62571609 | 9 | 0.559 | 14.2 | 222 |
| 62571610 | 10 | 0.579 | 14.7 | 235 |
| 62571612 | 12 | 0.591 | 15.0 | 259 |
| 62571614 | 14 | 0.622 | 15.8 | 300 |
| 62571618 | 18 | 0.697 | 17.7 | 374 |
| 62571625 | 25 | 0.831 | 21.1 | 503 |
| 62571630 | 30 | 0.854 | 21.7 | 570 |
| 62571634 | 34 | 0.925 | 23.5 | 644 |
| 62571640 | 40 | 1.000 | 25.4 | 751 |
| 62571641 | 41 | 1.000 | 25.4 | 757 |
| 62571661 | 61 | 1.157 | 29.4 | 1058 |

| item no. | no. of conductors | nominal outer- inch | outer- mm | cable weight ≈ lbs/mft |
|-----------------------------|-------------------|------------------------|--------------|---------------------------|
| ▶ 14 AWG (46/30) • 2.50 mm² | | | | |
| 62571402 | 2 | 0.386 | 9.8 | 106 |
| 62571403 | 3 | 0.421 | 10.7 | 136 |
| 62571404 | 4 | 0.449 | 11.4 | 160 |
| 62571405 | 5 | 0.500 | 12.7 | 195 |
| 62571407 | 7 | 0.543 | 13.8 | 240 |
| 62571408 | 8 | 0.638 | 16.2 | 305 |
| 62571409 | 9 | 0.673 | 17.1 | 335 |
| 62571410 | 10 | 0.693 | 17.6 | 355 |
| 62571412 | 12 | 0.720 | 18.3 | 401 |
| 62571418 | 18 | 0.835 | 21.2 | 552 |
| 62571425 | 25 | 1.004 | 25.5 | 749 |
| ▶ 12 AWG (52/28) • 4.00 mm² | | | | |
| 62571203 | 3 | 0.484 | 12.3 | 153 |
| 62571204 | 4 | 0.528 | 13.4 | 226 |
| 62571205 | 5 | 0.579 | 14.7 | 272 |
| 62571207 | 7 | 0.638 | 16.2 | 353 |

| item no. | no. of conductors | nominal outer- inch | outer- mm | cable weight ≈ lbs/mft |
|------------------------------|-------------------|------------------------|--------------|---------------------------|
| ▶ 10 AWG (78/28) • 6.00 mm² | | | | |
| 62571003 | 3 | 0.551 | 14.0 | 253 |
| 62571004 | 4 | 0.610 | 15.5 | 321 |
| 62571005 | 5 | 0.669 | 17.0 | 386 |
| ▶ 8 AWG (77/26) • 10.00 mm² | | | | |
| 62570804 | 4 | 0.795 | 20.2 | 532 |
| 62570805 | 5 | 0.878 | 22.3 | 645 |
| ▶ 6 AWG (119/26) • 16.00 mm² | | | | |
| 62570604 | 4 | 0.957 | 24.3 | 769 |
| ▶ 4 AWG (196/26) • 25.00 mm² | | | | |
| 62570404 | 4 | 1.169 | 29.7 | 1181 |
| ▶ 2 AWG (280/26) • 35.00 mm² | | | | |
| 62570204 | 4 | 1.331 | 33.8 | 1585 |

Other dimensions and colors are possible on request.

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Web site: www.sabcable.com

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