

SABIX® A 224 FRNC C1 Control cable with numbered conductors, improved fire performance and extended temperature range



Marking for SABIX® A224 FRNC C1 62245005:
SAB BRÖCKSKES · D-VIERSEN · SABIX® A224 FRNC C1 50 x 0,5 mm² CE

SABIX® A 224 FRNC C1 is a halogen free, multi-conductor, flexible power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. Recommended applications include machinery, data processing equipment, ventilation and air conditioning systems. 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 a extremely high risk of fire.

Construction:

| | |
|-------------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 |
| Insulation : | SABIX® 233 |
| Color code: | black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors |
| Stranding: | in layers |
| Jacket material: | SABIX® 233 |
| Jacket color: | black |

Outstanding features:

- halogen-free
- no flame propagation
- flame retardant and self-extinguishing
- NF C32-070 C1

Technical data:

| | |
|--|--|
| Nominal voltage: | Uo/U 450/750 V |
| Testing voltage U: | 3000 V |
| Min. bending radius | |
| fixed laying: | 4 x O.D. |
| flexible application: | 6 x O.D. |
| Temperature range | |
| fixed laying: | -30/+90 °C |
| flexible application: | -20/+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 60332 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2 + NF C32-070 C1 |
| Corrosiveness of conflagration gases: | 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 |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page N/28 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft |
|--------------------------------------|--------------------------------|----------------------|--------------------|------------------------|
| ▶ 20 AWG (≈ 16/32) • 0.50 mm² | | | | |
| 62240205 | 2 | 0.228 | 5.8 | 24 |
| 62240305 | 3 | 0.248 | 6.3 | 33 |
| 62240405 | 4 | 0.268 | 6.8 | 40 |
| 62240505 | 5 | 0.303 | 7.7 | 51 |
| 62240705 | 7 | 0.327 | 8.3 | 63 |
| 62241005 | 10 | 0.425 | 10.8 | 94 |
| 62241205 | 12 | 0.437 | 11.1 | 107 |
| 62241805 | 18 | 0.516 | 13.1 | 153 |
| 62242505 | 25 | 0.626 | 15.9 | 212 |
| 62243405 | 34 | 0.713 | 18.1 | 285 |
| 62244205 | 42 | 0.772 | 19.6 | 345 |
| 62246105 | 61 | 0.902 | 22.9 | 483 |
| ▶ 19 AWG (≈ 23/32) • 0.75 mm² | | | | |
| 62240207 | 2 | 0.252 | 6.4 | 30 |
| 62240307 | 3 | 0.276 | 7.0 | 41 |
| 62240407 | 4 | 0.307 | 7.8 | 53 |
| 62240507 | 5 | 0.335 | 8.5 | 64 |
| 62240707 | 7 | 0.370 | 9.4 | 84 |
| 62241007 | 10 | 0.480 | 12.2 | 124 |
| 62241207 | 12 | 0.496 | 12.6 | 140 |
| 62241807 | 18 | 0.591 | 15.0 | 207 |
| 62242507 | 25 | 0.717 | 18.2 | 285 |
| 62243407 | 34 | 0.803 | 20.4 | 374 |
| 62244207 | 42 | 0.874 | 22.2 | 460 |
| 62246107 | 61 | 1.024 | 26.0 | 643 |
| ▶ 18 AWG (≈ 30/32) • 1.00 mm² | | | | |
| 62240210 | 2 | 0.268 | 6.8 | 36 |
| 62240310 | 3 | 0.283 | 7.2 | 46 |
| 62240410 | 4 | 0.315 | 8.0 | 60 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft |
|---|--------------------------------|----------------------|--------------------|------------------------|
| ▶ 18 AWG (≈ 30/32) • 1.00 mm² | | | | |
| 62240510 | 5 | 0.346 | 8.8 | 73 |
| 62240710 | 7 | 0.382 | 9.7 | 95 |
| 62241010 | 10 | 0.496 | 12.6 | 140 |
| 62241210 | 12 | 0.512 | 13.0 | 161 |
| 62241810 | 18 | 0.610 | 15.5 | 237 |
| 62242510 | 25 | 0.740 | 18.8 | 326 |
| 62243410 | 34 | 0.839 | 21.3 | 436 |
| 62244210 | 42 | 0.906 | 23.0 | 529 |
| 62246110 | 61 | 1.607 | 27.1 | 750 |
| ▶ 16 AWG (≈ 27-29/30) • 1.50 mm² | | | | |
| 62240215 | 2 | 0.291 | 7.4 | 44 |
| 62240315 | 3 | 0.315 | 8.0 | 60 |
| 62240415 | 4 | 0.343 | 8.7 | 75 |
| 62240515 | 5 | 0.386 | 9.8 | 94 |
| 62240715 | 7 | 0.425 | 10.8 | 124 |
| 62241015 | 10 | 0.551 | 14.0 | 181 |
| 62241215 | 12 | 0.567 | 14.4 | 208 |
| 62241815 | 18 | 0.677 | 17.2 | 306 |
| 62242515 | 25 | 0.827 | 21.0 | 432 |
| 62243415 | 34 | 0.937 | 23.8 | 577 |
| 62244215 | 42 | 1.012 | 25.7 | 700 |
| 62246115 | 61 | 1.189 | 30.2 | 995 |
| ▶ 14 AWG (≈ 46/30) • 2.50 mm² | | | | |
| 62240225 | 2 | 0.346 | 8.8 | 65 |
| 62240325 | 3 | 0.374 | 9.5 | 89 |
| 62240425 | 4 | 0.417 | 10.6 | 114 |
| 62240525 | 5 | 0.457 | 11.6 | 140 |
| 62240725 | 7 | 0.504 | 12.8 | 185 |
| 62241025 | 10 | 0.661 | 16.8 | 274 |

| item no. | no. of conductors incl. ground | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft |
|---------------------------------------|--------------------------------|----------------------|--------------------|------------------------|
| ▶ 14 AWG (≈ 46/30) • 2.50 mm² | | | | |
| 62241225 | 12 | 0.681 | 17.3 | 315 |
| 62241825 | 18 | 0.819 | 20.8 | 470 |
| 62242525 | 25 | 0.957 | 25.3 | 653 |
| ▶ 12 AWG (≈ 52/28) • 4.00 mm² | | | | |
| 62240340 | 3 | 0.433 | 11.0 | 126 |
| 62240440 | 4 | 0.480 | 12.2 | 163 |
| 62240540 | 5 | 0.535 | 13.6 | 204 |
| 62240740 | 7 | 0.591 | 15.0 | 271 |
| ▶ 10 AWG (≈ 78/28) • 6.00 mm² | | | | |
| 62240360 | 3 | 0.500 | 12.7 | 177 |
| 62240460 | 4 | 0.555 | 14.1 | 229 |
| 62240560 | 5 | 0.618 | 15.7 | 286 |
| 62240760 | 7 | 0.681 | 17.3 | 382 |
| ▶ 8 AWG (≈ 77/26) • 10.00 mm² | | | | |
| 62240461 | 4 | 0.709 | 18.0 | 380 |
| 62240561 | 5 | 0.988 | 25.1 | 661 |
| 62240761 | 7 | 0.988 | 25.1 | 753 |
| ▶ 6 AWG (≈ 122/26) • 16.00 mm² | | | | |
| 62240462 | 4 | 0.992 | 25.2 | 690 |
| 62240562 | 5 | 0.996 | 25.3 | 731 |
| 62240762 | 7 | 1.067 | 27.1 | 943 |
| ▶ 4 AWG (≈ 190/26) • 25.00 mm² | | | | |
| 62240463 | 4 | 0.961 | 24.4 | 856 |
| 62240563 | 5 | 1.071 | 27.2 | 1074 |
| ▶ 2 AWG (≈ 272/26) • 35.00 mm² | | | | |
| 62240464 | 4 | 1.094 | 27.8 | 1176 |
| 62240564 | 5 | 1.228 | 31.2 | 1447 |

Other dimensions and colors are possible on request.