

Halogen-free Cables

SABIX® A 810 FRNC

Motor connection cable with numbered conductors, improved fire performance, and extended temperature range

0.6/1 kV

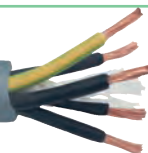
SAB Servo

ES · D-VIERSEN · SABIX® A 810 FRNC rf 0.6/1 kV 5 x 1.5 mm² €



Marking for SABIX® A 810 FRNC 68100515:

SAB BRÖCKSKES · D-VIERSEN · SABIX® A 810 FRNC rf 0.6/1 kV 5 x 1.5 mm² €



Construction:

| | |
|-------------------------|--|
| Conductor: | bare copper strands acc. to IEC 60228, VDE 0295, class 5 |
| Insulation: | SABIX® |
| Color code: | black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors |
| Stranding: | in layers |
| Jacket material: | SABIX® |
| Jacket color: | gray (RAL 7000) |

Outstanding features:

- low smoke halogen-free (LSHF)
- no flame propagation
- flame retardant and self-extinguishing

Technical data:

| | |
|---------------------------------------|--|
| Nominal voltage: | Uo/U 0.6/1 kV |
| Testing voltage: | conductor/conductor: 4000 V |
| Min. bending radius: | |
| <i>fixed installation:</i> | 4 x O.D. |
| <i>free movement:</i> | 6 x O.D. |
| Temperature range: | DIN VDE |
| <i>static:</i> | -40/+85°C |
| <i>flexible:</i> | -30/+85°C |
| Halogen-free: | acc. to IEC 60754-1 + VDE 0482-754-1 |
| Burning characteristics: | no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 cat. C resp. D Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 |
| Corrosivity: | in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases |
| Smoke density: | acc. to IEC 61034 + VDE 0482-1034 |
| Flexibility: | good |
| Approvals: | CE, RoHS |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30 |

| item no. | no. of conductors incl. ground | outer-ø | | cable weight ≈lbs/mft |
|--|--------------------------------|-----------|---------|-----------------------|
| | | ±10% inch | ±10% mm | |
| ▶ 16 AWG (≈ 27-29/30) - 1.50 mm² | | | | |
| 68100315 | 3 | 0.370 | 9.4 | 85 |
| 68100415 | 4 | 0.398 | 10.1 | 100 |
| 68100515 | 5 | 0.433 | 11.0 | 118 |
| 68100715 | 7 | 0.469 | 11.9 | 144 |
| ▶ 14 AWG (≈ 46/30) - 2.50 mm² | | | | |
| 68100325 | 3 | 0.417 | 10.6 | 116 |
| 68100425 | 4 | 0.453 | 11.5 | 138 |
| 68100525 | 5 | 0.496 | 12.6 | 165 |
| 68100725 | 7 | 0.543 | 13.8 | 208 |
| ▶ 12 AWG (≈ 52/28) - 4.00 mm² | | | | |
| 68100340 | 3 | 0.469 | 11.9 | 157 |
| 68100440 | 4 | 0.520 | 13.2 | 192 |
| 68100540 | 5 | 0.563 | 14.3 | 226 |
| 68100740 | 7 | 0.618 | 15.7 | 292 |

| item no. | no. of conductors incl. ground | outer-ø | | cable weight ≈lbs/mft |
|--|--------------------------------|-----------|---------|-----------------------|
| | | ±10% inch | ±10% mm | |
| ▶ 10 AWG (≈ 78/28) - 6.00 mm² | | | | |
| 68100360 | 3 | 0.524 | 13.3 | 207 |
| 68100460 | 4 | 0.563 | 14.3 | 251 |
| 68100560 | 5 | 0.622 | 15.8 | 301 |
| 68100760 | 7 | 0.677 | 17.2 | 389 |
| ▶ 8 AWG (≈ 77/26) - 10.00 mm² | | | | |
| 68100370 | 3 | 0.720 | 18.3 | 392 |
| 68100470 | 4 | 0.787 | 20.0 | 476 |
| 68100570 | 5 | 0.862 | 21.9 | 568 |
| 68100770 | 7 | 0.941 | 23.9 | 727 |
| ▶ 6 AWG (≈ 122/26) - 16.00 mm² | | | | |
| 68100380 | 3 | 0.846 | 21.5 | 553 |
| 68100480 | 4 | 0.925 | 23.5 | 677 |
| 68100580 | 5 | 1.020 | 25.9 | 828 |
| 68100780 | 7 | 1.114 | 28.3 | 1065 |

| item no. | no. of conductors incl. ground | outer-ø | | cable weight ≈lbs/mft |
|--|--------------------------------|-----------|---------|-----------------------|
| | | ±10% inch | ±10% mm | |
| ▶ 4 AWG (≈ 190/26) - 25.00 mm² | | | | |
| 68100390 | 3 | 1.020 | 25.9 | 850 |
| 68100490 | 4 | 1.118 | 28.4 | 1046 |
| 68100590 | 5 | 1.236 | 31.4 | 1262 |
| 68100790 | 7 | 1.354 | 34.4 | 1643 |

Other dimensions and colors are available on request

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