

Besilen® - Silicone Cables

SC 700 HDTR

Besilen® insulated strands with Besilen® outer sheath, UL/cUL recognized

Temperature range
up to
+200 °C

511 200°C 600V cUL AWM I/II A/B 200°C 600V FT1 FT2 CE



marking example:

SAB BRÜCKSKES · D-VIERSEN · SC 700 HDTR AWM Style 4511 200°C 600V cUL AWM I/II A/B 200°C 600V FT1 FT2 CE

Construction:

| | |
|-------------------------|---|
| Conductor: | < 10 mm²: nickel-plated copper strands ≥ 10 mm²: tinned copper strands acc. to IEC 60228, VDE 0295, class 5 |
| Insulation: | Besilen® EI2 acc. to EN 50363-1 + VDE 0207-363-1 |
| Colour code: | coloured acc. to HD 308 (VDE 0293-308), from 6 cores black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, from 3 cores a green-yellow earth wire |
| Stranding: | in layers |
| Sheath material: | Besilen® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1 |
| Sheath colour: | reddish brown (similar RAL 3016) |

Outstanding features:

- » halogen-free
- » flexible at low temperatures
- » heat resistant
- » UL/cUL recognized

Technical data:

| | |
|--|---|
| Nominal voltage: | U ₀ /U 300/500 V |
| Voltage UL/CSA: | 600 V |
| Testing voltage: | core/core 2000 V |
| Min. bending radius | |
| fixed laying: | 4 x d |
| flexible application: | 6 x d |
| Radiation resistance: | 2 x 10 ⁷ cJ/kg |
| Temperature range | UL/cUL: up to +200 °C |
| fixed laying: | DIN VDE: -40/+180 °C |
| flexible application: | -25/+180 °C |
| short-time use: | +250 °C |
| Halogen-free: | acc. to IEC 60754-1 + VDE 0482-754-1 |
| Fire performance: | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, cUL FT1, FT2 |
| Corrosiveness of conflagration gases: | IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases |
| Absence of harmful substances: | acc. to RoHS directive of the European Union, see chapter N „Technical data“ |

| item no. | no. of cores x cross section n x mm² | largest single wire ø mm | outer-ø ± 10% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|--------------------------------|------------------------|---------------------------|----------------------------|
| 01250205 | 2 x 0,50 | 0,21 | 5,6 | 10,3 | 38 |
| 01250305 | 3 x 0,50 | 0,21 | 5,9 | 15,4 | 46 |
| 01250405 | 4 x 0,50 | 0,21 | 6,3 | 20,5 | 54 |
| 01250505 | 5 x 0,50 | 0,21 | 6,9 | 25,6 | 66 |
| 01250705 | 7 x 0,50 | 0,21 | 7,5 | 35,9 | 81 |
| 01250805 | 8 x 0,50 | 0,21 | 8,6 | 41,0 | 102 |
| 01251005 | 10 x 0,50 | 0,21 | 9,3 | 51,3 | 110 |
| 01251205 | 12 x 0,50 | 0,21 | 9,6 | 61,5 | 126 |
| 01250207 | 2 x 0,75 | 0,21 | 5,9 | 14,4 | 46 |
| 01250307 | 3 x 0,75 | 0,21 | 6,4 | 21,6 | 55 |
| 01250407 | 4 x 0,75 | 0,21 | 6,9 | 28,8 | 66 |
| 01250507 | 5 x 0,75 | 0,21 | 7,6 | 36,0 | 82 |
| 01250707 | 7 x 0,75 | 0,21 | 8,2 | 50,4 | 100 |
| 01250807 | 8 x 0,75 | 0,21 | 9,5 | 57,6 | 127 |
| 01251007 | 10 x 0,75 | 0,21 | 10,3 | 72,0 | 137 |
| 01251207 | 12 x 0,75 | 0,21 | 10,6 | 86,4 | 157 |
| 01250210 | 2 x 1,00 | 0,21 | 6,3 | 19,2 | 52 |
| 01250310 | 3 x 1,00 | 0,21 | 6,6 | 28,8 | 63 |
| 01250410 | 4 x 1,00 | 0,21 | 7,2 | 38,4 | 77 |
| 01250510 | 5 x 1,00 | 0,21 | 7,8 | 48,0 | 94 |
| 01250710 | 7 x 1,00 | 0,21 | 8,5 | 67,2 | 117 |
| 01250810 | 8 x 1,00 | 0,21 | 9,8 | 76,8 | 146 |
| 01251010 | 10 x 1,00 | 0,21 | 10,7 | 96,0 | 161 |
| 01251210 | 12 x 1,00 | 0,21 | 11,0 | 115,2 | 185 |
| 01250215 | 2 x 1,50 | 0,26 | 7,1 | 28,8 | 69 |
| 01250315 | 3 x 1,50 | 0,26 | 7,5 | 43,2 | 84 |
| 01250415 | 4 x 1,50 | 0,26 | 8,0 | 57,6 | 101 |
| 01250515 | 5 x 1,50 | 0,26 | 8,9 | 72,0 | 126 |
| 01250715 | 7 x 1,50 | 0,26 | 9,7 | 100,8 | 159 |
| 01250815 | 8 x 1,50 | 0,26 | 11,4 | 115,2 | 200 |
| 01251015 | 10 x 1,50 | 0,26 | 12,6 | 144,0 | 226 |
| 01251215 | 12 x 1,50 | 0,26 | 13,0 | 172,8 | 262 |
| 01250225 | 2 x 2,50 | 0,26 | 8,5 | 48,0 | 102 |

| item no. | no. of cores x cross section n x mm² | largest single wire ø mm | outer-ø ± 10% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|--------------------------------|------------------------|---------------------------|----------------------------|
| 01250325 | 3 x 2,50 | 0,26 | 9,0 | 72,0 | 127 |
| 01250425 | 4 x 2,50 | 0,26 | 9,8 | 96,0 | 160 |
| 01250525 | 5 x 2,50 | 0,26 | 11,1 | 120,0 | 200 |
| 01250725 | 7 x 2,50 | 0,26 | 12,1 | 168,0 | 254 |
| 01250825 | 8 x 2,50 | 0,26 | 14,3 | 192,0 | 327 |
| 01251025 | 10 x 2,50 | 0,26 | 15,8 | 240,0 | 364 |
| 01251225 | 12 x 2,50 | 0,26 | 16,3 | 288,0 | 421 |
| 01250240 | 2 x 4,00 | 0,31 | 9,7 | 76,8 | 137 |
| 01250340 | 3 x 4,00 | 0,31 | 10,6 | 115,2 | 187 |
| 01250440 | 4 x 4,00 | 0,31 | 11,6 | 153,6 | 232 |
| 01250540 | 5 x 4,00 | 0,31 | 12,9 | 192,0 | 292 |
| 01250740 | 7 x 4,00 | 0,31 | 14,1 | 268,8 | 373 |
| 01250260 | 2 x 6,00 | 0,31 | 11,6 | 115,2 | 201 |
| 01250360 | 3 x 6,00 | 0,31 | 12,3 | 172,8 | 240 |
| 01250460 | 4 x 6,00 | 0,31 | 13,4 | 230,4 | 323 |
| 01250560 | 5 x 6,00 | 0,31 | 15,2 | 288,0 | 408 |
| 01250760 | 7 x 6,00 | 0,31 | 16,6 | 403,2 | 523 |
| 01250261 | 2 x 10,00 | 0,41 | 14,6 | 192,0 | 342 |
| 01250361 | 3 x 10,00 | 0,41 | 15,5 | 288,0 | 436 |
| 01250461 | 4 x 10,00 | 0,41 | 17,0 | 384,0 | 546 |
| 01250561 | 5 x 10,00 | 0,41 | 18,9 | 480,0 | 681 |
| 01250761 | 7 x 10,00 | 0,41 | 21,1 | 672,0 | 885 |
| 01250262 | 2 x 16,00 | 0,41 | 17,0 | 307,2 | 508 |
| 01250362 | 3 x 16,00 | 0,41 | 18,7 | 460,8 | 652 |
| 01250462 | 4 x 16,00 | 0,41 | 20,5 | 614,4 | 857 |
| 01250562 | 5 x 16,00 | 0,41 | 20,9 | 768,0 | 1016 |
| 01250762 | 7 x 16,00 | 0,41 | 25,7 | 1075,2 | 1363 |
| 01250263 | 2 x 25,00 | 0,41 | 21,6 | 480,0 | 776 |
| 01250363 | 3 x 25,00 | 0,41 | 23,0 | 720,0 | 999 |
| 01250463 | 4 x 25,00 | 0,41 | 25,6 | 960,0 | 1276 |
| 01250264 | 2 x 35,00 | 0,41 | 24,8 | 672,0 | 1059 |
| 01250364 | 3 x 35,00 | 0,41 | 26,4 | 1008,0 | 1372 |
| 01250464 | 4 x 35,00 | 0,41 | 29,0 | 1344,0 | 1730 |

Other dimensions and colours are possible on request.