

SILICONE CABLES



SC 123 Silicone insulated strands with fiberglass braid



SC 123 is a high temperature single conductor silicone wire recommended for use in applications where temperature exceeds the maximum rating of traditional plastic and rubber insulated wires. This cable is a flexible, cost-effective alternative to teflon wire. Recommended applications include foundries, steel mills and glass factories, and other high temperature processes and is recommended wherever an overall abrasion resistant covering is required.

Construction:

| | |
|------------------------|--|
| Conductor: | tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5 |
| Insulation: | Besilen® E12 acc. to DIN VDE 0282 part 1 and HD 22.1 |
| Standard color: | nature |
| Braiding: | fiberglass |
| Impregnation: | impregnating lacquer |

Outstanding features:

- halogen-free
- flexible at low temperatures
- heat resistant
- flexible

Technical data:

| | |
|---------------------------------------|---|
| Nominal voltage: | U ₀ /U 300/300 V |
| Testing voltage: | 2000 V |
| Min. bending radius: | 7.5 x O.D. |
| Radiation resistance: | 2 x 10 ⁷ cJ/kg |
| Temperature range | |
| <i>static:</i> | -40/+180 °C |
| <i>flexing:</i> | -25/+180 °C |
| <i>short-time use:</i> | +250 °C |
| Zero halogen: | acc. to DIN VDE 0472 part 815 and IEC 60754-1 |
| Burning characteristics: | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 |
| Corrosivity: | in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases |
| 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. | mm ² | AWG | nominal inch | outer- mm | cable weight ≈ lbs/mft |
|------------|-----------------|--------------|-----------------|--------------|------------------------------|
| ▶ 01230050 | 0.50 | 20 (15/32) | 0.094 | 2.4 | 7 |
| ▶ 01230070 | 0.75 | 19 (23/32) | 0.106 | 2.7 | 11 |
| ▶ 01230100 | 1.00 | 18 (30/32) | 0.110 | 2.8 | 12 |
| ▶ 01230150 | 1.50 | 16 (27/30) | 0.126 | 3.2 | 15 |
| ▶ 01230250 | 2.50 | 14 (46/30) | 0.154 | 3.9 | 24 |
| ▶ 01230400 | 4.00 | 12 (52/29) | 0.177 | 4.5 | 34 |
| ▶ 01230600 | 6.00 | 10 (78/28) | 0.205 | 5.2 | 50 |
| ▶ 01231000 | 10.00 | 8 (77/26) | 0.287 | 7.3 | 91 |
| ▶ 01231600 | 16.00 | 6 (129/26) | 0.327 | 8.3 | 133 |
| ▶ 01232500 | 25.00 | 4 (200/26) | 0.402 | 10.2 | 206 |
| ▶ 01233500 | 35.00 | 2 (280/26) | 0.449 | 11.4 | 271 |
| ▶ 01235000 | 50.00 | 1 (400/26) | 0.555 | 14.1 | 384 |
| ▶ 01237000 | 70.00 | 2/0 (554/26) | 0.594 | 15.1 | 509 |
| ▶ 01239500 | 95.00 | 3/0 (484/24) | 0.728 | 18.5 | 702 |

Other dimensions and colors are possible on request.