



TECHNICAL DATA

Silicone single core in alignment with DIN VDE 0250-1, DIN VDE 0250-502

Temperature range flexible -25°C to +180°C
fixed -60°C to +180°C

Permissible operating temperature of the conductor +180°C

Nominal voltage AC U₀/U 300/500 V

Test voltage 2000 V

Breakdown voltage 5000 V

Minimum bending radius flexible 15x Outer-Ø
fixed 6x Outer-Ø

■ CABLE STRUCTURE

- Copper wire tinned, finely stranded, 0.5 - 185 mm²: acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Wire structure:
0.25 mm²: approx. 8 x 0.2 mm
- Core insulation: Silicone
- Core identification: see table

■ PROPERTIES

- resistant to: ozone, oxygen, alcohols, dilute acids, alkalis, saline solutions, oxidising agents, high molecular weight oils, vegetable and animal fats, plasticisers and clophen, seawater
- halogen-free
- high flash point

■ TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

■ APPLICATION

Temperature resistant silicone single core for use in iron, steel and rolling mills, foundries, cement, glass and ceramic factories as well as in aircraft construction and ship building.

■ NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- for fixed installation, always install in open, ventilated pipe or duct systems; otherwise, a combination of high temperatures above 90°C and the absence of air would affect the mechanical properties of silicone

| Cross-sec. mm ² | AWG, approx. | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. | black | green-yellow | blue | brown | red | white | grey | violet |
|-------------------------------|-----------------|---------------------------|--------------------|-----------------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | | Part no. | Part no. | Part no. | Part no. | Part no. | Part no. | Part no. | |
| 0.25 | 24 | 1.6 | 2.4 | 5.5 | 23201 | 23213 | 23203 | 23204 | 23202 | 23205 | 23206 | 23207 |
| 0.5 | 20 | 2.1 | 4.8 | 8.6 | 23301 | 23313 | 23303 | 23304 | 23302 | 23305 | 23306 | 23307 |
| 0.75 | 19 | 2.4 | 7.2 | 11.8 | 23401 | 23413 | 23403 | 23404 | 23402 | 23405 | 23406 | 23407 |
| 1 | 18 | 2.5 | 9.6 | 13.5 | 23501 | 23513 | 23503 | 23504 | 23502 | 23505 | 23506 | 23507 |
| 1.5 | 16 | 2.8 | 14.4 | 18.5 | 23601 | 23613 | 23603 | 23604 | 23602 | 23605 | 23606 | 23607 |
| 2.5 | 14 | 3.4 | 24.0 | 30.0 | 23701 | 23713 | 23703 | 23704 | 23702 | 23705 | 23706 | 23707 |
| 4 | 12 | 4.2 | 38.0 | 47.3 | 23801 | 23813 | 23803 | 23804 | 23802 | 23805 | 23806 | 23807 |
| 6 | 10 | 5.0 | 58.0 | 71.1 | 23901 | 23913 | 23903 | 23904 | 23902 | 23905 | 23906 | 23907 |
| 10 | 8 | 6.6 | 96.0 | 119.4 | 24601 | 24613 | 24603 | 24604 | 24602 | 24605 | 24606 | 24607 |
| 16 | 6 | 7.4 | 154.0 | 187.7 | 24701 | 24713 | 24703 | 24704 | 24702 | 24705 | 24706 | 24707 |
| 25 | 4 | 9.2 | 240.0 | 289.6 | 24801 | 24813 | 24803 | 24804 | 24802 | 24805 | 24806 | 24807 |
| 35 | 2 | 10.3 | 336.0 | 398.0 | 23953 | 451113 | 451103 | 451104 | 451102 | 451105 | 451106 | 451107 |
| 50 | 1 | 12.0 | 480.0 | 560.0 | 23954 | 451213 | 451203 | 451204 | 451202 | 451205 | 451206 | 451207 |
| 70 | 2/0 | 13.8 | 672.0 | 766.0 | 23955 | 451313 | 451303 | 451304 | 451302 | 451305 | 451306 | 451307 |
| 95 | 3/0 | 16.2 | 912.0 | 1032.0 | 23956 | 451413 | 451403 | 451404 | 451402 | 451405 | 451406 | 451407 |
| 120 | 4/0 | 17.6 | 1152.0 | 1285.0 | 23957 | 451513 | 451503 | 451504 | 451502 | 451505 | 451506 | 451507 |
| 150 | 300 kcmil | 19.6 | 1440.0 | 1564.0 | 23958 | 451613 | 451603 | 451604 | 451602 | 451605 | 451606 | 451607 |
| 185 | 350 kcmil | 22.4 | 1776.0 | 1859.0 | 23959 | 451713 | 451703 | 451704 | 451702 | 451705 | 451706 | 451707 |

SiF

Silicone single core, finely stranded, tinned wire, increased temperature resistance



| Cross-sec. mm ² | AWG, approx. | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. | orange | green | pink | beige | yellow | transparent |
|-------------------------------|-----------------|---------------------------|--------------------|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | | Part no. | Part no. | Part no. | Part no. | Part no. | Part no. |
| 0.25 | 24 | 1.6 | 2.4 | 5.5 | 23209 | 23200 | 23211 | 23212 | 23208 | 23210 |
| 0.5 | 20 | 2.1 | 4.8 | 8.6 | 23309 | 23300 | 23311 | 23312 | 23308 | 23310 |
| 0.75 | 19 | 2.4 | 7.2 | 11.8 | 23409 | 23400 | 23411 | 23412 | 23408 | 23410 |
| 1 | 18 | 2.5 | 9.6 | 13.5 | 23509 | 23500 | 23511 | 23512 | 23508 | 23510 |
| 1.5 | 16 | 2.8 | 14.4 | 18.5 | 23609 | 23600 | 23611 | 23612 | 23608 | 23610 |
| 2.5 | 14 | 3.4 | 24.0 | 30.0 | 23709 | 23700 | 23711 | 23712 | 23708 | 23710 |
| 4 | 12 | 4.2 | 38.0 | 47.3 | 23809 | 23800 | 23811 | 23812 | 23808 | 23810 |
| 6 | 10 | 5.0 | 58.0 | 71.1 | 23909 | 23900 | 23911 | 23912 | 23908 | 23910 |
| 10 | 8 | 6.6 | 96.0 | 119.4 | 24609 | 24600 | 24611 | 24612 | 24608 | 24610 |
| 16 | 6 | 7.4 | 154.0 | 187.7 | 24709 | 24700 | 24711 | 24712 | 24708 | 24710 |
| 25 | 4 | 9.2 | 240.0 | 289.6 | 24809 | 24800 | 24811 | 24812 | 24808 | 24810 |
| 35 | 2 | 10.3 | 336.0 | 398.0 | 451109 | 451100 | 451111 | 451112 | 451108 | 451110 |
| 50 | 1 | 12.0 | 480.0 | 560.0 | 451209 | 451200 | 451211 | 451212 | 451208 | 451210 |
| 70 | 2/0 | 13.8 | 672.0 | 766.0 | 451309 | 451300 | 451311 | 451312 | 451308 | 451310 |
| 95 | 3/0 | 16.2 | 912.0 | 1032.0 | 451409 | 451400 | 451411 | 451412 | 451408 | 451410 |
| 120 | 4/0 | 17.6 | 1152.0 | 1285.0 | 451509 | 451500 | 451511 | 451512 | 451508 | 451510 |
| 150 | 300 kcmil | 19.6 | 1440.0 | 1564.0 | 451609 | 451600 | 451611 | 451612 | 451608 | 451610 |
| 185 | 350 kcmil | 22.4 | 1776.0 | 1859.0 | 451709 | 451700 | 451711 | 451712 | 451708 | 451710 |

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