



Technical data

- Spezial-silicon single core with higher heat-resistance range adapted to DIN VDE 0250 Teil 1 and part 502
- **Temperature range**
flexing -25°C to +180°C
fixed installation -60°C to +180°C
- Permissible conductor **operating temperature** +180°C
- **Nominal voltage**
U₀/U 300/500 V
- **Test voltage**
2000 V
- **Breakdown voltage**
min. 5000 V
- **Minimum bending radius**
flexing 15x core Ø
fixed installation 6x core Ø
- **Radiation resistance**
up to 20x10⁶ cJ/kg (up to 20 Mrad)

Cable structure

- Tinned copper conductor, from 0,5 mm² to DIN VDE 0295 cl.5, fine wire, BS 6360 cl.5, IEC 60228 cl.5
 - Conductor construction
0,25 mm² = app. 14x0,15 mm
 - Core insulation of silicone
- Tests**
- Halogen-free acc. to
DIN VDE 0482-754-1,
DIN EN 60754-1, IEC 60754-1
(previously DIN VDE 0482-267-2-1)
 - Corrosiveness of combustion gases
acc. to DIN VDE 0482-754-2,
DIN EN 60754-2, IEC 60754-2
(previously DIN VDE 0482-267-2-2)
 - Behaviour in fire no flame propagation
acc. to DIN VDE 0482-332-1-2,
DIN EN 60332-1-2, IEC 60332-1 (equivalent
DIN VDE 0472 part 804 test method B)

Properties

- **Resistant to**
high molecular oils, fats from vegetables and animals, alcohols, plasticizers and clophenes, diluted acids, lyes and salt dissolution, oxidation substances, tropical influences and weather, lake water, oxygen
- High flash points
- For laying as a fixed installation only in open or ventilated pipe systems. Otherwise the mechanical properties of the silicon are reduced by the enclosed air at temperatures exceeding 90°C.

Application

Special single cores for use in high, resp. low temperature areas. They are used mainly in the steel producing industries, in aviation industries as well as in ship building, cement, glas and ceramic factories. As this single cores are halogen-free, especially suited for use in power stations.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

| Cross-sec. mm ² | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | BK | BU | BN | RD | WH | GY | VT | YE | PK | GN | OG | BEIGE | TRANS | 2-col. |
|----------------------------|-----------------|---------------------|---------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Part no. 0,25 | 1,9 | 2,4 | 5,5 | 23201 | 23203 | 23204 | 23202 | 23205 | 23206 | 23207 | 23208 | 23211 | 23200 | 23209 | 23212 | 23210 | 23213 |
| Part no. 0,5 | 2,1 | 4,8 | 8,6 | 23301 | 23303 | 23304 | 23302 | 23305 | 23306 | 23307 | 23308 | 23311 | 23300 | 23309 | 23312 | 23310 | 23313 |
| Part no. 0,75 | 2,4 | 7,2 | 11,8 | 23401 | 23403 | 23404 | 23402 | 23405 | 23406 | 23407 | 23408 | 23411 | 23400 | 23409 | 23412 | 23410 | 23413 |
| Part no. 1 | 2,5 | 9,6 | 13,5 | 23501 | 23503 | 23504 | 23502 | 23505 | 23506 | 23507 | 23508 | 23511 | 23500 | 23509 | 23512 | 23510 | 23513 |
| Part no. 1,5 | 2,8 | 14,4 | 18,5 | 23601 | 23603 | 23604 | 23602 | 23605 | 23606 | 23607 | 23608 | 23611 | 23600 | 23609 | 23612 | 23610 | 23613 |
| Part no. 2,5 | 3,4 | 24,0 | 30,0 | 23701 | 23703 | 23704 | 23702 | 23705 | 23706 | 23707 | 23708 | 23711 | 23700 | 23709 | 23712 | 23710 | 23713 |
| Part no. 4 | 4,2 | 38,0 | 47,3 | 23801 | 23803 | 23804 | 23802 | 23805 | 23806 | 23807 | 23808 | 23811 | 23800 | 23809 | 23812 | 23810 | 23813 |
| Part no. 6 | 5,0 | 58,0 | 71,1 | 23901 | 23903 | 23904 | 23902 | 23905 | 23906 | 23907 | 23908 | 23911 | 23900 | 23909 | 23912 | 23910 | 23913 |
| Part no. 10 | 6,6 | 96,0 | 119,4 | 24601 | 24603 | 24604 | 24602 | 24605 | 24606 | 24607 | 24608 | 24611 | 24600 | 24609 | 24612 | 24610 | 24613 |
| Part no. 16 | 7,4 | 154,0 | 187,7 | 24701 | 24703 | 24704 | 24702 | 24705 | 24706 | 24707 | 24708 | 24711 | 24700 | 24709 | 24712 | 24710 | 24713 |
| Part no. 25 | 9,2 | 240,0 | 289,6 | 24801 | 24803 | 24804 | 24802 | 24805 | 24806 | 24807 | 24808 | 24811 | 24800 | 24809 | 24812 | 24810 | 24813 |
| Part no. 35 | 10,3 | 336,0 | 398,0 | 23953 | 451103 | 451104 | 451102 | 451105 | 451106 | 451107 | 451108 | 451111 | 451100 | 451109 | 451112 | 451110 | 451113 |
| Part no. 50 | 11,8 | 480,0 | 560,0 | 23954 | 451203 | 451204 | 451202 | 451205 | 451206 | 451207 | 451208 | 451211 | 451200 | 451209 | 451212 | 451210 | 451213 |
| Part no. 70 | 13,6 | 672,0 | 766,0 | 23955 | 451303 | 451304 | 451302 | 451305 | 451306 | 451307 | 451308 | 451311 | 451300 | 451309 | 451312 | 451310 | 451313 |
| Part no. 95 | 15,6 | 912,0 | 1032,0 | 23956 | 451403 | 451404 | 451402 | 451405 | 451406 | 451407 | 451408 | 451411 | 451400 | 451409 | 451412 | 451410 | 451413 |
| Part no. 120 | 17,6 | 1152,0 | 1285,0 | 23957 | 451503 | 451504 | 451502 | 451505 | 451506 | 451507 | 451508 | 451511 | 451500 | 451509 | 451512 | 451510 | 451513 |
| Part no. 150 | 19,6 | 1440,0 | 1564,0 | 23958 | 451603 | 451604 | 451602 | 451605 | 451606 | 451607 | 451608 | 451611 | 451600 | 451609 | 451612 | 451610 | 451613 |
| Part no. 185 | 22,4 | 1776,0 | 1859,0 | 23959 | 451703 | 451704 | 451702 | 451705 | 451706 | 451707 | 451708 | 451711 | 451700 | 451709 | 451712 | 451710 | 451713 |

Dimensions and specifications may be changed without prior notice. (RK01)