



Technical data

- Spezial-silicon single core with higher heat-resistance range adapted to DIN VDE 0250 Teil 1 and part 502
- **Temperature range**
-60 °C to +180 °C
(up to +220 °C for short time)
- **Temperature limit at the conductor**
in operation +180 °C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** 2000 V
- **Breakdown voltage** min. 5000 V
- **Minimum bending radius**
15x cable \varnothing
(SiD only for permanent installation)
- **Radiation resistance**
up to 20×10^6 cJ/kg (up to 20 Mrad)

Cable structure

Type SiF/GL

- Tinned copper conductors
0,5 mm² to DIN VDE 0295 Kl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
for 0,25 mm² = 14x0,15 mm
- Silicone core insulation
- Glass-fibre braiding

Type SiD

- solid tinned copper conductor silicone insulated

Type SiD/GL

- as SiD but with an additional glass-fibre braiding

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

• Corrosivity of combustion gases

(Halogen-free)
according to VDE 0482 part 267/
DIN EN 50267-2-2/ IEC 60754-2 (equivalent
DIN VDE 0472 part 813)

• Behaviour in fire

no flame propagation, test according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

• High flash points

- For laying as a fixed installation only in open or ventilated pipe systems as well as in ducts. Otherwise the mechanical properties of the silicon are reduced by the enclosed air at temperatures exceeding 90 °C.

Note

- Please complete the part number for these cables by adding the suffix for the colour required as per the list:

00 = green, 01 = black, 02 = red,
03 = blue, 04 = brown, 05 = white,
06 = grey, 07 = violet, 08 = yellow,
09 = orange, 10 = transparent,
11 = pink, 12 = beige, 13 = twin colour

Application

Special cables 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, glass and ceramic factories. As this cables are halogen-free, especially suited for use in power stations.

€= The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

SiF/GL

| Part no. | Cross-sec. mm ² | Outer \varnothing approx. mm | Cop. weight kg / km | Weight approx. kg / km | AWG-No. |
|----------|----------------------------|--------------------------------|---------------------|------------------------|---------|
| 47001 | 0,25 | 2,4 | 2,4 | 7,7 | 24 |
| 47002 | 0,5 | 2,5 | 4,8 | 12,4 | 20 |
| 47003 | 0,75 | 2,8 | 7,2 | 16,2 | 18 |
| 47004 | 1 | 2,9 | 9,6 | 18,2 | 17 |
| 47005 | 1,5 | 3,2 | 14,4 | 23,4 | 16 |
| 47006 | 2,5 | 3,8 | 24,0 | 35,2 | 14 |
| 47007 | 4 | 4,6 | 38,0 | 53,5 | 12 |
| 47008 | 6 | 5,4 | 58,0 | 77,4 | 10 |
| 47009 | 10 | 7,6 | 96,0 | 129,2 | 8 |
| 47010 | 16 | 8,4 | 154,0 | 198,4 | 6 |
| 47011 | 25 | 10,2 | 240,0 | 303,0 | 4 |
| 47012 | 35 | 11,3 | 336,0 | 413,2 | 2 |
| 47013 | 50 | 13,4 | 480,0 | 577,8 | 1 |

SiD

| Part no. | Cross-sec. mm ² | Outer \varnothing approx. mm | Cop. weight kg / km | Weight approx. kg / km | AWG-No. |
|----------|----------------------------|--------------------------------|---------------------|------------------------|---------|
| 461xx | 0,2 | 1,7 | 1,9 | 4,2 | - |
| 462xx | 0,28 | 1,8 | 2,7 | 5,1 | - |
| 463xx | 0,5 | 2,0 | 4,8 | 7,5 | 20 |
| 464xx | 0,75 | 2,1 | 7,2 | 10,2 | 18 |
| 465xx | 1 | 2,3 | 9,6 | 12,6 | 17 |
| 466xx | 1,5 | 2,5 | 14,4 | 18,1 | 16 |
| 467xx | 2,5 | 3,2 | 24,0 | 28,7 | 14 |
| 468xx | 4 | 3,9 | 38,0 | 45,2 | 12 |
| 469xx | 6 | 4,4 | 58,0 | 64,3 | 10 |

SiD/GL

| Part no. | Cross-sec. mm ² | Outer \varnothing approx. mm | Cop. weight kg / km | Weight approx. kg / km | AWG-No. |
|----------|----------------------------|--------------------------------|---------------------|------------------------|---------|
| 47014 | 0,5 | 2,4 | 4,8 | 10,0 | 20 |
| 47015 | 0,75 | 2,6 | 7,2 | 15,0 | 18 |
| 47016 | 1 | 2,7 | 9,6 | 19,0 | 17 |
| 47017 | 1,5 | 3,0 | 14,4 | 28,0 | 16 |
| 47018 | 2,5 | 3,6 | 24,0 | 40,0 | 14 |
| 47019 | 4 | 4,3 | 36,0 | 55,0 | 12 |
| 47020 | 6 | 5,0 | 58,0 | 80,0 | 10 |

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