



## 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 Ø  
(SiD only for permanent installation)
- **Radiation resistance**  
up to  $20 \times 10^6$  cJ/kg (up to 20 Mrad)

## Cable construction

### Type SiF/GL

- Tinned copper conductors  
 $\geq 0,5 \text{ mm}^2$  to DIN VDE 0295 Kl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5  
for  $0,25 \text{ mm}^2 = 14 \times 0,15 \text{ mm}$
- 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

- High ignition or flash point
- **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
- **Halogen-free**  
according to DIN VDE 0482 part 267/ EN 50267-2-2/ IEC 60754-2 (equivalent DIN VDE 0472 part 813)
- **Behaviour in fire**  
no flame propagation, test according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- 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.

CE= The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

### SiF/GL

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

### SiD

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

Dimensions and specifications may be changed without prior notice.