

SiF / SiFF silicon single cores, halogen-free



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
 6x cable \varnothing
 Radiation resistance
 up to 20×10^6 cJ/kg (up to 20 Mrad)

Cable structure

Type SiF
 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
 Type SiFF
 as SiF but with high flexible copper strands
 (see content technical information)
 Strand make-up
 0,25 to 1,0 mm² - cl. 6 col. 7
 (single wire \varnothing 0,05 mm)
 1,5 to 10 mm² - cl. 6 col. 6
 (single wire \varnothing 0,07 mm)

Properties

Advantages
 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 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)
 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 2006/95/EG.

SiF

Part no.	Cross-sec. mm ²	Outer \varnothing approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
247xx	16	7,4	154,0	187,7	6

SiFF

Part no.	Cross-sec. mm ²	Outer \varnothing approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.

SiF (wire colour black)

Cross-sec. mm ²	Outer \varnothing approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.

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