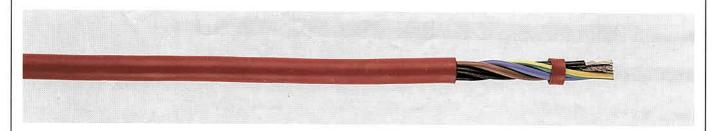
# SiHF-O / SiHF-J Silicone flexible multicore cable temperature-resistant



## **Applications**

These silicone-insulated multicore cables, resistant to high and low temperatures, are used as mobile connecting cables for equipment where high temperatures can arise as well as for ambient air temperatures between -60°C and +180°C. These cables can also withstand temperatures up to +250°C for short periods.

These cables are used in all areas of low mechanical load where high and low temperatures can have a direct effect, e.g. in ship building, in iron and steel works, in smelting plants, power plants, foundries, coking plants, glass and ceramic works, cement works, for high-power lighting fixtures and spotlights, solarium and sauna installations.

#### Characteristic features

- Temperature-resistant from −60°C to + 180°C, for short periods to + 250°C, flexible at low temperatures down to −25°C in continuous operation.
- These cables are approved to supply temperature class "H" up to 180°C.
- In the event of fire, no fire support; retention of the insulation and low smoke emission.

#### Durability

- The silicone compound is resistant to ozone, oxygen and weathering.
- Resistant to transmission oil, acetone, aniline, boric acid, brake fluids, methanol, engine oil, sulphur dioxide, tartaric and citric acid, sea water as well as vegetable and animal fats.
- Refer also to the Table of Technical Guidelines for other chemical resistance properties of silicone compounds.

### Cable design

Construction designed on the basis of VDE 0250

part 1 and part 816

: tinned Cu wires, flexible Conductor

Construction of : according to VDE 0295 Class 5 and

conductor IEC 228 Class 5

Insulation : core insulation of silicone rubber,

compound type 2GI1 according to

VDE 0207 part 20

Core identi-: colour coded or black with imprinted

fication numbers according to VDE 0293

Protective earth: without green-yellow protective earth conductor conductor for 2 cores, with green-vellow

protective earth conductor for 3 or more

Type of lay-up : concentric lay-up of cores in layers

Sheath : sheath material of silicone rubber,

compound type 2GM1 according to

VDE 0207 part 21

Sheath colour : oxbrown-red as the standard colour

#### Note

Other core configurations, cross sections and special notchresistant cable constructions, or resistant to temperatures up to +250°C for continuous operation, low-voltage cables for halogen lamps and SiY versions manufactured upon request

## **Technical data**

Conductor resistance at 20°C : according to VDE 0295 Class 5

and IEC 228 Class 5, refer also

to the Table of Technical

Guidelines

Insulation resistance

min.: 20 M Ω · km

at 20°C

Temp. at the conductor max. : +180°C in operation

max.: +200°C in the event of a short

circuit

Rated voltage Test voltage AC, 50 Hz

Uo/U: 300/500 V : 2000 V

Breakdown voltage min.: 20 kV/mm at 20°C Minimum bending radius : 7,5 x cable diameter

Temperature range

mobile : -25°C to +180°C fixed : -60°C to +180°C

Radiation resistance : 20 Mrad (20 x 106 cJ/kg)

Testing according to DIN VDE 0472 and IEC regulations Flame test

: test class B and test class C according to VDE 0472 part 804, IEC 332-1 and IEC 332-3

respectively

Insulation retention : according to VDE 0472 part

814 and IEC 331

