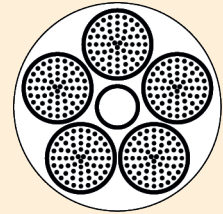
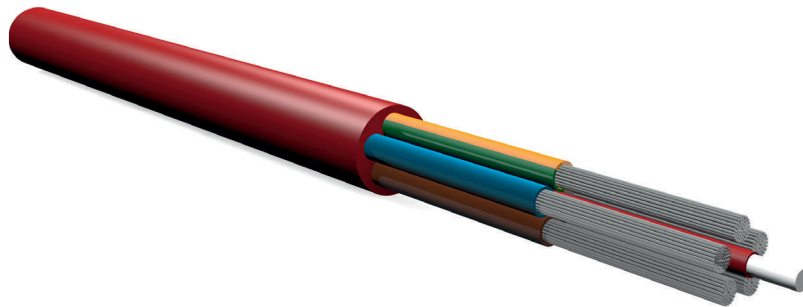


SIHF

Silicone insulated cable

RoHS

CROSS SECTION



APPLICATION

These heat and cold-resistant silicone hose cables are used as moving connection cables for devices subject to the influence of high temperatures and ambient temperatures of -60°C to $+180^{\circ}\text{C}$. They can temporarily withstand temperatures of up to $+250^{\circ}\text{C}$. They are suitable for headlights, heating appliances, rolling mills and thermal power plants, as well as for use as moving connection cables. They are resistant to vegetable and animal fats. The insulation is protected against humidity and resistant to ozone and oxygen. One outstanding property is the high flashpoint. If the cable sets on fire, an insulating layer of silicone dioxide remains on the conductor to help prevent a short circuit.

STRUCTURE

Conductor	Tin-plated copper stranded wire, flexible, design structure according to DIN VDE 0295 class 5, cores concentrically stranded in layers
Cores	Silicone rubber, coloured up to 5-cored or black from 6-cored with imprinted digits according to VDE 0293
Outer sheath	Silicone rubber according to VDE 0207 part 21

TECHNICAL DATA

Nominal voltage	300 V/500 V
Test voltage	50 Hz: 2.000 V
Insulation resistance	At 20°C min.: 20 MOhm x km
Operating temperature	-60°C to $+180^{\circ}\text{C}$
Min. installation temperature	-25°C
Max. installation temperature	$+180^{\circ}\text{C}$
Min. bending radius	7.5 x cable diameter

TESTS ACCORDING TO DIN VDE 0472 AND IEC:

Flammability	Test method B according to VDE 0472 part 804 and IEC 332-1
Insulation integrity	According to VDE 0472 part 814 and IEC 331

SPECIAL FEATURES

Properties
Halogen free
Tin-plated copper

Sheath colour
Auburn

Product description	Cu weight	Outer Ø (mm)	Weight (kg/km)
SIHF-O 2x0.75	14.0	6.4	53
SIHF-O 2x1	19.0	6.6	64
SIHF-O 2x1.5	28.8	7.6	77
SIHF-O 2x2.5	48.0	7.5	80
SIHF 3x0.75	21.6	6.8	64
SIHF 3x1	29.0	6.6	79
SIHF 3x1.5	43.0	8.0	98
SIHF 3x2.5	72.0	9.7	152
SIHF 4x0.75	29.0	7.8	84
SIHF 4x1	38.0	8.0	95
SIHF 4x1.5	58.0	8.8	122
SIHF 4x2.5	96.0	10.6	189
SIHF 4x4	154.0	13.1	295
SIHF 4x6	230.0	15.2	442
SIHF 4x10	385.0	20.0	707
SIHF 4x16	615.0	24.3	987
SIHF 4x25	960.0	27.7	1557
SIHF 4x35	1344.0	30.5	2025
SIHF 5x0.75	36.0	8.5	101
SIHF 5x1	48.0	8.8	116
SIHF 5x1.5	72.0	9.6	148
SIHF 5x2.5	120.0	11.6	229
SIHF 5x4	192.0	14.4	359
SIHF 5x6	288.0	17.7	535
SIHF 7x0.75	50.0	9.2	125
SIHF 7x1	67.0	9.5	144
SIHF 7x1.5	100.8	10.4	202
SIHF 7x2.5	168.0	12.6	293
SIHF 10x1.5	144.0	14.6	283
SIHF 12x1.5	173.0	13.6	320
SIHF 16x1.5	231.0	16.2	446
SIHF 18x1.5	260.0	16.8	478
SIHF 20x1.5	288.0	17.5	566
SIHF 24x1.5	346.0	19.8	722

