SIHF SINGLE CORE SERIES

High Performance Flexible Silicone Rubber High Temperature Cable 300/500V 180°C

APPLICATIONS:

High Temperature Suitable for wiring on kilns, boilers, lighting and other high temperature applications and surfaces to 180°C.
Low Temperature Used for wiring in industrial cool stores and freezers to -60°C.
Power Suitable for wiring of public lighting in medical areas.

PRODUCT FEATURES:

- Halogen – Free IEC 60754
- Tinned fine stranded copper conductor
- High ignition or flashpoint
- Minimal change to dielectric strength at high temperature
- Minimal change to insulation resistance at high temperature
- In the event of a fire the silicone forms an insulating layer of SiO_2
- UV stabilised
- Flame retardant
- Resistant to environmental factors such as oxidation, ozone and sunlight
- Water and moisture resistant
- Heat, oil and chemical resistant *(See Technical Section)*

CONSTRUCTION:

Conductor Annealed tinned copper stranded high flexibility (Class 5).
Insulation Silicone rubber.

CHARACTERISTICS:

Operating Temperature Range Fixed -60°C to 180°C / Flexing -40°C to 180°C.
Maximum Conductor Temperature 180°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).
Rated Voltage Uo/U 300/500v.
Max AC Operating Voltage Uo 318v.
Minimum Bending Radius Fixed 4 x cable diameter / Flexing 7.5 x cable diameter.
Insulation Colour
1.0 - 1.5mm^2 - Black, Blue, Green/Yellow, Red
2.5mm^2 - Black, Blue, Green/Yellow, Red, Grey, Brown
4.0mm^2 - Black, Blue, Green/Yellow
6.0 – 16.0mm^2 - Black
25.0mm^2 and above – Red, Black. Other colours subject to availability.
Relevant Standards IEC 60332-1, IEC 60754-1, IEC 60228, VDE 0282, VDE 0295, VDE 0472, CE Directive 2006/95/EC, RoHS Compliant.

Code	No. of Cores x Size (mm^2)	Approx. Stranding No. of wires x mm	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Nominal Amps un-enclosed protected from sun or in ventilated duct @ 150°C fixed installation	
					Spaced	Laid in ventilated duct
SIHF1/1.0	1 x 1.0	32/0.21	2.3	13	19	12
SIHF1/1.5	1 x 1.5	30/0.25	2.7	18	24	16
SIHF1/2.5	1 x 2.5	50/0.25	3.4	30	32	21
SIHF1/4.0	1 x 4.0	56/0.30	4.0	47	42	28
SIHF1/6.0	1 x 6.0	84/0.30	4.5	71	54	36
SIHF1/10	1 x 10.0	80/0.40	6.8	119	73	49
SIHF1/16	1 x 16.0	128/0.40	7.8	187	98	65
SIHF1/25	1 x 25.0	200/0.40	10.3	290	129	85
SIHF1/35	1 x 35.0	280/0.40	11.6	398	158	105
SIHF1/50	1 x 50.0	400/0.40	13.9	560	198	140

CONVERSION FACTORS FOR DEVIATING AMBIENT TEMPERATURES						
Temp. °C	Up to 150	150–155	155–160	160–165	165–170	170–175
Derating Factor	1.00	0.91	0.82	0.71	0.58	0.41