

HIGH TEMPERATURE CABLES

SIHF MULTI 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 not exceeding 180°C.

Low Temperature Used for wiring in industrial cool stores and freezers to -60°C.

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 SiO₂
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Resistant to environmental factors such as oxidation, ozone and sunlight
- ▶ Very good behaviour to variations of outdoor temperature
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

CONSTRUCTION:

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

Insulation Silicone rubber.

Sheath Silicone rubber.

CHARACTERISTICS:

Operating Temperature Range Fixed -60°C to 180°C / Flexing -40°C to 180°C.

Maximum Conductor Temperature 180°C.

Rated Voltage U_o/U 300/500v.

Max AC Operating Voltage U_o 318v.

Minimum Bending Radius Fixed 4 x cable diameter / Flexing 7.5 x cable diameter.

Sheath Colour Reddish-Brown.

Standard Core Colours

3 Core – Blue, Brown, Green/Yellow.


4 Core – Brown, Black, Grey, Green/Yellow.

5 Core – Blue, Brown, Black, Grey, Green/Yellow.

Multi Core – Black Numbered, Green/Yellow.

Relevant Standards IEC 60332-1, IEC 60754-2, IEC6 0228, VDE 0472, VDE 0282, **CE** Directive 2006/95/EC,


RoHS Compliant.

Code	No. of Cores x Size	Approx. Stranding	Approx. Overall Diameter	Approx. Weight	Nominal Amps un-enclosed protected from sun @ 150°C fixed installation
	(mm ²)	No. of wires x mm	(mm)	(Kg/Km)	Touching or in ventilated ducts 
SIHF3/0.75	3 x 0.75	24/0.20	6.8	76	12
SIHF3/1.0	3 x 1.0	32/0.20	7.4	93	15
SIHF3/1.5	3 x 1.5	30/0.25	8.0	117	18
SIHF3/2.5	3 x 2.5	50/0.25	9.7	179	26
SIHF4/0.75	4 x 0.75	24/0.20	7.8	101	12
SIHF4/1.5	4 x 1.5	30/0.25	8.8	145	18
SIHF4/2.5	4 x 2.5	50/0.25	10.6	222	26
SIHF4/4.0	4 x 4.0	56/0.30	13.2	346	34
SIHF4/6.0	4 x 6.0	84/0.30	15.6	497	44
SIHF4/10	4 x 10.0	80/0.40	19.1	778	61
SIHF5/0.5	5 x 0.5	16/0.20	7.8	59	3
SIHF5/1.5	5 x 1.5	30/0.25	9.6	175	18
SIHF5/2.5	5 x 2.5	50/0.25	11.6	268	26

Continued over page ▶

Firstflex has taken every precaution to ensure accurate information in this catalogue, but accept no liability for any errors or omissions. Firstflex reserves the right to modify specifications at any time.

SIHF MULTI CORE SERIES continued

Code	No. of Cores x Size	Approx. Stranding	Approx. Overall Diameter	Approx. Weight	Nominal Amps un-enclosed protected from sun @ 150°C fixed installation
	(mm ²)	No. of wires x mm	(mm)	(Kg/Km)	Touching or in ventilated ducts 
SIHF5/4.0	5 x 4.0	56/0.30	14.4	359	34
SIHF7/0.75	7 x 0.75	24/0.20	9.2	148	12
SIHF7/1.5	7 x 1.5	30/0.25	10.4	220	18
SIHF12/1.5	12 x 1.5	30/0.25	14.6	413	18
SIHF19/1.5	19 x 1.5	30/0.25	17.0	591	18

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