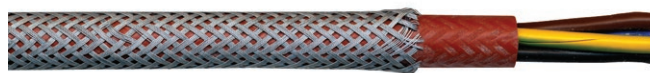


# HIGH TEMPERATURE CABLES

## SICY SERIES

**High Performance Flexible Silicone Rubber SWB 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.

**Tough Environments** The steel wire external braid adds to its mechanical strength and ensures disturbance free transmission of signals.

### PRODUCT FEATURES:

- ▶ Tinned fine stranded copper conductor
- ▶ High ignition or flashpoint
- ▶ Halogen Free
- ▶ 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<sub>2</sub>
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Resistant to environmental factors such as oxidation, ozone and sunlight
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

### CONSTRUCTION:

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

**Insulation** Silicone rubber.

**Sheath** Silicone rubber.

**Screen** External steel wire braid.

### CHARACTERISTICS:

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

**Maximum Conductor Temperature** 180°C.

**Rated Voltage** U<sub>o</sub>/U 300/500v

**Max AC Operating Voltage** U<sub>o</sub> 318v.

**Minimum Bending Radius** Fixed 10 x cable diameter / Flexing 15 x cable diameter.

**Sheath Colour** Tinned steel wire braid over glass fibre tape over reddish-brown silicone.

#### Standard Core Colours

3 Core – Blue, Brown, Green/Yellow.

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

**Relevant Standards** DIN VDE 0295, IEC 60332-1, IEC 60754-1, IEC 60228, 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 <sup>2</sup> )	No. of wires x mm	(mm)	(Kg/Km)	Touching or in ventilated duct
<b>SICY3/1.5</b>	3 x 1.5	30/0.25	7.9	145	18
<b>SICY3/2.5</b>	3 x 2.5	50/0.25	9.5	205	26
<b>SICY4/1.5</b>	4 x 1.5	30/0.25	8.7	173	18
<b>SICY4/2.5</b>	4 x 2.5	50/0.25	10.3	278	26
<b>SICY4/4.0</b>	4 x 4.0	56/0.30	12.1	384	34

### CONVERSION FACTORS FOR DEVIATING AMBIENT TEMPERATURES

Temp. °C	Up to 150	150–155	155–160	160–165	165–170	170–175
<b>Derating Factor</b>	1.00	0.91	0.82	0.71	0.58	0.41

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.