

## SiF Stranded Silicone Single Core



**SiF** is a special 180 Degree C. stranded silicone single core for use in high and low temperature areas. These cables are mainly found in steel producing industry and aviation industry as well as in ship building, cement, glass and ceramic factories. **SiF** cables are low-smoke and halogen-free especially suited for use in power stations where PVC cables become brittle due to higher temperatures. The silicone insulation provides added heat-resistance, chemical, oil and acidic resistance. Designed for flexible and stationary applications. Outdoor use is not permitted.



### Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Silicone core insulation
- Cores to VDE-0293 colors on chart
- High ignition and flash point
- **Extremely oil & chemical resistant**

### Technical:

- Working voltage: 300/500 volts
- Test voltage: 2000 volts
- Bending Radius: 5 x Ø
- Temp range: -50° C to +180° C
- Short time temp up to +220° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

### Approvals:

- VDE-0250 Part-1 & Part 502
- Halogen-free to IEC 60754-1
- Low smoke to IEC 60754-2
- CE Low Voltage Directive 73/23/EEC & 93/68/EEC
- ROHS compliant

| PART NUMBER                          | CORES | NOMINAL OD     | CU LBS/MFT | WT LBS/MFT |
|--------------------------------------|-------|----------------|------------|------------|
| 24 AWG (14/34) 0,25mm2<br>60124**    | 1     | .075" / 1.9mm  | 2          | 3          |
| 20 AWG (16/32) 0,50mm2<br>60120**    | 1     | .083" / 2.1mm  | 3          | 6          |
| 18 AWG (24/32) 0,75mm2<br>60118**    | 1     | .094" / 2.4mm  | 5          | 8          |
| 17 AWG (32/32) 1,00mm2<br>60117**    | 1     | .098" / 2.5mm  | 7          | 9          |
| 16 AWG (30/30) 1,50mm2<br>60116**    | 1     | .110" / 2.8mm  | 10         | 13         |
| 14 AWG (50/30) 2,50mm2<br>60114**    | 1     | .134" / 3.4mm  | 16         | 20         |
| 12 AWG (56/28) 4,0mm2<br>60112**     | 1     | .165" / 4.2mm  | 25         | 32         |
| 10 AWG (84/28) 6,0mm2<br>60110**     | 1     | .205" / 5.2mm  | 39         | 48         |
| 8 AWG (80/26) 10,0mm2<br>60108**     | 1     | .280" / 7.1mm  | 64         | 80         |
| 6 AWG (128/26) 16,0mm2<br>60106**    | 1     | .331" / 8.4mm  | 103        | 126        |
| 4 AWG (200/26) 25,0mm2<br>60104**    | 1     | .406" / 10.3mm | 161        | 195        |
| 2 AWG (280/26) 35,0mm2<br>60102**    | 1     | .457" / 11.6mm | 225        | 268        |
| 1 AWG (400/26) 50,0mm2<br>60101**    | 1     | .547" / 13.9mm | 322        | 376        |
| 2/0 AWG (356/24) 70,0mm2<br>60121**  | 1     | .634" / 16.1mm | 451        | 514        |
| 3/0 AWG (485/24) 95,0mm2<br>60131**  | 1     | .724" / 18.4mm | 612        | 692        |
| 4/0 AWG (614/24) 120,0mm2<br>60141** | 1     | .791" / 20.1mm | 773        | 862        |

| Color Code Chart    |
|---------------------|
| 00 - Green/Yellow   |
| 01 - Black          |
| 02 - Blue (RAL5015) |
| 03 - Brown          |
| 04 - Red            |
| 05 - White          |
| 06 - Gray           |
| 07 - Violet         |
| 08 - Pink           |
| 09 - Orange         |
| 11 - Yellow         |
| 12 - Green          |
| 13 - Beige          |

Insert a 2-digit color code from the Color Code Chart for the \*\* found at the end of the proper part number. i.e. - 6011204 - SiF, 12 AWG (4,00mm2) Red

\* Additional AWG sizes and colors may be available.

Hi-Temp & Hi-Volt Silicone Cables