

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: 15 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 60124**	1	.075" / 1.9mm	2	3
20 AWG (16/32) 0,50mm2 60120**	1	.083" / 2.1mm	3	6
18 AWG (24/32) 0,75mm2 60118**	1	.094" / 2.4mm	5	8
17 AWG (32/32) 1,00mm2 60117**	1	.098" / 2.5mm	7	9
16 AWG (30/30) 1,50mm2 60116**	1	.110" / 2.8mm	10	13
14 AWG (50/30) 2,50mm2 60114**	1	.134" / 3.4mm	16	20
12 AWG (56/28) 4,0mm2 60112**	1	.165" / 4.2mm	25	32
10 AWG (84/28) 6,0mm2 60110**	1	.205" / 5.2mm	39	48
8 AWG (80/26) 10,0mm2 60108**	1	.280" / 7.1mm	64	80
6 AWG (128/26) 16,0mm2 60106**	1	.331" / 8.4mm	103	126
4 AWG (200/26) 25,0mm2 60104**	1	.406" / 10.3mm	161	195
2 AWG (280/26) 35,0mm2 60102**	1	.457" / 11.6mm	225	268
1 AWG (400/26) 50,0mm2 60101**	1	.547" / 13.9mm	322	376
2/0 AWG (356/24) 70,0mm2 60121**	1	.634" / 16.1mm	451	514
3/0 AWG (485/24) 95,0mm2 60131**	1	.724" / 18.4mm	612	692
4/0 AWG (614/24) 120,0mm2 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