

SiHF Silicone Multi-Core Cable



SiHF is a special 180 Degree C. silicone multi-core cable for use in high and low temperature areas or whenever insulation is subjected to extreme temperature changes. These cables are mainly found in steel producing industry and aviation industry as well as in ship building, cement, glass and ceramic factories. Commonly used as cables in sauna and solarium constructions, thermal and heating elements, lighting technology, air conditioning technology, oven construction and polymer processing. **SiHF** cables are halogen-free and especially suited for use in power stations. The silicone jacket provides added heat-resistance, chemical, oil and acidic resistance. Not permitted for outdoor use.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Silicone core insulation
- Color code VDE-0293-308
- For 2 cores color code is brown & blue
- 6+ cores, color code is black & white numbers
- Silicone outer jacket - reddish/brown
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 2000 volts
- Flexing bending radius: 7.5 x Ø
- Static bending radius: 4 x Ø
- Temp range: -50° C to +180° C
- Short time temp up to +220° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 200 MΩ x km

Approvals:

- VDE-0250 Part-1 & Part 816
- Halogen-free to IEC 60754-1
- Low smoke to IEC 60754-2
- CE low voltage directive 72/23/EEC & 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
6102002	2	0.217" / 5.5mm	7	28
6102003	3	0.228" / 5.8mm	10	30
6102004	4	0.244" / 6.2mm	13	39
6102005	5	0.268" / 6.8mm	16	42
6102006	6	0.287" / 7.3mm	19	53
6102007	7	0.299" / 7.6mm	23	57
6102008	8	0.339" / 8.6mm	26	66
6102010	10	0.374" / 9.5mm	32	83
6102012	12	0.386" / 9.8mm	39	95
6102016	16	0.437" / 11.1mm	52	125
6102018	18	0.453" / 11.5mm	58	142
6102024	24	0.539" / 13.7mm	80	182
18 AWG (24/32) 0,75mm²				
6101802	2	0.252" / 6.4mm	9	36
6101803	3	0.268" / 6.8mm	14	42
6101804	4	0.303" / 7.7mm	19	56
6101805	5	0.331" / 8.4mm	24	68
6101806	6	0.350" / 8.9mm	29	77
6101807	7	0.362" / 9.2mm	34	83
6101808	8	0.374" / 9.5mm	39	93
6101810	10	0.421" / 10.7mm	48	105
6101812	12	0.437" / 11.1mm	58	124
6101816	16	0.496" / 12.6mm	77	146
6101818	18	0.524" / 13.3mm	87	174
6101825	25	0.614" / 15.6mm	121	248
17 AWG (32/32) 1,00mm²				
6101702	2	0.260" / 6.6mm	13	40
6101703	3	0.291" / 7.4mm	19	52
6101704	4	0.319" / 8.1mm	25	63
6101705	5	0.346" / 8.8mm	32	77
6101706	6	0.366" / 9.3mm	39	90
6101707	7	0.386" / 9.8mm	45	97
6101708	8	0.409" / 10.4mm	52	117
6101710	10	0.429" / 10.9mm	64	145
6101712	12	0.453" / 11.5mm	77	155
6101716	16	0.516" / 13.1mm	103	203
6101718	18	0.543" / 13.8mm	116	228
6101725	25	0.638" / 16.2mm	161	289

Sizes continued on next page.

SiHF Silicone Multi-Core Cable



SiHF Sizes Continued. (16 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm²				
6101602	2	0.299" / 7.6mm	19	54
6101603	3	0.315" / 8.0mm	29	66
6101604	4	0.346" / 8.8mm	39	82
6101605	5	0.378" / 9.6mm	48	99
6101606	6	0.409" / 10.4mm	58	116
6101607	7	0.429" / 10.9mm	68	125
6101608	8	0.457" / 11.6mm	79	143
6101610	10	0.535" / 13.6mm	96	176
6101612	12	0.575" / 14.6mm	116	211
6101614	14	0.606" / 15.4mm	135	254
6101616	16	0.657" / 16.7mm	155	298
6101618	18	0.693" / 17.6mm	174	339
6101620	20	0.717" / 18.2mm	193	380
6101624	24	0.791" / 20.1mm	232	484
14 AWG (50/30) 2,50mm²				
6101402	2	0.362" / 9.2mm	32	90
6101403	3	0.382" / 9.7mm	48	102
6101404	4	0.417" / 10.6mm	64	126
6101405	5	0.457" / 11.6mm	80	153
6101406	6	0.508" / 12.9mm	97	204
6101407	7	0.516" / 13.1mm	113	215
6101408	8	0.587" / 14.9mm	129	250
6101410	10	0.650" / 16.5mm	161	302
6101412	12	0.701" / 17.8mm	193	337
6101416	16	0.752" / 19.1mm	258	442
6101418	18	0.791" / 20.1mm	290	510
6101424	24	0.965" / 24.5mm	402	675
12 AWG (56/28) 4,0mm²				
6101202	2	0.425" / 10.8mm	52	121
6101203	3	0.449" / 11.4mm	77	150
6101204	4	0.516" / 13.1mm	103	198
6101205	5	0.567" / 14.4mm	129	241
6101207	7	0.638" / 16.2mm	180	321
10 AWG (84/28) 6,0mm²				
6101002	2	0.528" / 13.4mm	77	184
6101003	3	0.559" / 14.2mm	116	227
6101004	4	0.638" / 16.2mm	154	296
6101005	5	0.697" / 17.7mm	193	359
6101007	7	0.756" / 19.2mm	270	459
8 AWG (80/26) 10,0mm²				
6100803	3	0.736" / 18.7mm	193	416
6100804	4	0.803" / 20.4mm	258	474
6100805	5	0.886" / 22.5mm	322	604
6 AWG (128/26) 16,0mm²				
6100603	3	0.870" / 22.1mm	310	335
6100604	4	0.957" / 24.3mm	413	479
6100605	5	1.051" / 26.7mm	516	570
4 AWG (200/26) 25,0mm²				
6100403	3	1.031" / 26.2mm	483	738
6100404	4	1.252" / 31.8mm	644	1020
2 AWG (280/26) 35,0mm²				
6100203	3	1.177" / 29.9mm	676	1006
6100204	4	1.291" / 32.8mm	901	1409

* Additional sizes may be available.