

SiHF-C-UL Shielded



SiHF-C-UL is a special 180 Degree C., overall shielded, black silicone multi-core cable for use in high and low temperature areas or whenever insulation is subjected to extreme temperature changes. Especially designed for the North American and European markets by carrying the UL/cUL/CE approvals. These cables are mainly found in steel producing and aviation industry as well as in ship building, foundries, ceramic and glass factories, sauna and solarium construction, air conditioning technology, oven construction and lighting technologies. **SiHF-C-UL** cables are halogen-free especially suited for installations in power stations. The silicone jacket provides added heat, chemical, oil, acidic and UV resistance while the overall tinned copper braid shield protects from electromagnetic interference providing disturbance-free transfers of signals and impulses.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-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
- Plastic foil separator
- 85% tinned copper braid
- Silicone outer jacket - black
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500v (600v UL)
- Test voltage: 2000 volts
- Flexing bending radius: 10.0 x Ø
- Static bending radius: 5 x Ø
- Temp range: -50° C to +180° C
- UL/cUL Temp: +150° C
- Short time temp up to +220° C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 200 MΩ x km

Approvals:

- UL Style 4476
- cUL AWM II A/B
- 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				
6512002	2	0.354" / 9.0mm	38	63
6512003	3	0.366" / 9.3mm	40	70
6512004	4	0.382" / 9.7mm	45	84
6512005	5	0.398" / 10.1mm	54	100
6512007	7	0.413" / 10.5mm	62	113
6512010	10	0.496" / 12.6mm	83	158
6512012	12	0.528" / 13.4mm	90	174
18 AWG (32/32) 1,00mm²				
6511802	2	0.374" / 9.5mm	44	87
6511803	3	0.390" / 9.9mm	58	101
6511804	4	0.417" / 10.6mm	64	112
6511805	5	0.457" / 11.6mm	72	133
6511807	7	0.476" / 12.1mm	95	158
6511810	10	0.559" / 14.2mm	127	182
6511812	12	0.594" / 15.1mm	140	244
16 AWG (30/30) 1,50mm²				
6511602	2	0.417" / 10.6mm	59	113
6511603	3	0.433" / 11.0mm	69	128
6511604	4	0.457" / 11.6mm	88	154
6511605	5	0.516" / 13.1mm	99	182
6511607	7	0.555" / 14.1mm	131	229
6511610	10	0.641" / 16.3mm	180	315
6511612	12	0.705" / 17.9mm	200	349
14 AWG (50/30) 2,50mm²				
6511402	2	0.472" / 12.0mm	82	152
6511403	3	0.500" / 12.7mm	99	182
6511404	4	0.551" / 14.0mm	126	223
6511405	5	0.594" / 15.1mm	144	258
6511407	7	0.665" / 16.9mm	178	321

Sizes continued on next page.

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SiHF-C-UL Sizes Continued. (12 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
12 AWG (56/28) 4,0mm²				
6511204	4	0.669" / 17.0mm	197	346
6511205	5	0.752" / 19.1mm	251	430
10 AWG (84/28) 6,0mm²				
6511004	4	0.732" / 18.6mm	301	518
6511005	5	0.839" / 21.3mm	378	657
8 AWG (80/26) 10,0mm²				
6510804	4	1.004" / 25.5mm	509	861

* Additional sizes may be available.