

Mueller

Hi-Temperature & Hi-Voltage Silicone Cables



Hi-Temp/Hi-Volt Wire Contents

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SiD Solid Silicone Single Core



SiD is a special 180 Degree C. silicone solid 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. **SiD** 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 laying as a fixed installation only in open or ventilated pipe systems as well as in ducts. Outdoor use is not permitted.



Construction:

- Solid tinned copper single wire
- Solid to VDE-0295 Class-1, IEC 60228 Cl-1
- 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
- Only for fixed applications
- 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
25 AWG (Solid) 0,20mm2 60025**	1	.067" / 1.7mm	1	2
23 AWG (Solid) 0,28mm2 60023**	1	.071" / 1.8mm	2	3
20 AWG (Solid) 0,50mm2 60020**	1	.079" / 2.0mm	3	5
18 AWG (Solid) 0,75mm2 60018**	1	.083" / 2.1mm	5	7
17 AWG (Solid) 1,00mm2 60017**	1	.091" / 2.3mm	7	9
16 AWG (Solid) 1,50mm2 60016**	1	.098" / 2.5mm	10	12
14 AWG (Solid) 2,50mm2 60014**	1	.126" / 3.2mm	16	19
12 AWG (Solid) 4,0mm2 60012**	1	.154" / 3.9mm	25	30
10 AWG (Solid) 6,0mm2 60010**	1	.173" / 4.4mm	39	44

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. - 6001601 - SiD, 16 AWG (1,50mm2) Black

* Additional AWG sizes and colors may be available.

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.

SiFF High Flex Silicone Single Core



SiFF is a special 180 Degree C. high flex 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. **SiFF** 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 highly flexible applications. Outdoor use is not permitted.



Construction:

- Super-fine tinned copper strands
- Strands to VDE-0295 Class-6, IEC 60228 CI-7
- Silicone core insulation
- Cores to VDE-0293 colors on chart
- High ignition and flash point
- Super flexible
- **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 (128/34) 0,25mm2 60224**	1	.075" / 1.9mm	2	4
20 AWG (256/32) 0,50mm2 60220**	1	.083" / 2.1mm	3	7
18 AWG (384/32) 0,75mm2 60218**	1	.098" / 2.5mm	5	9
17 AWG (512/32) 1,00mm2 60217**	1	.106" / 2.7mm	7	10
16 AWG (392/30) 1,50mm2 60216**	1	.122" / 3.1mm	9	13
14 AWG (651/30) 2,50mm2 60214**	1	.151" / 3.8mm	17	21
12 AWG (1026/28) 4,0mm2 60212**	1	.181" / 4.6mm	27	34
10 AWG (1561/28) 6,0mm2 60210**	1	.224" / 5.7mm	40	49
8 AWG (2604/40) 10,0mm2 60208**	1	.354" / 9.0mm	66	84
6 AWG (4116/40) 16,0mm2 60206**	1	.413" / 10.5mm	105	129
4 AWG (6496/40) 25,0mm2 60204**	1	.535" / 13.6mm	172	196
2 AWG (9329/40) 35,0mm2 60202**	1	.591" / 15.0mm	247	272
1 AWG (12996/40) 50,0mm2 60201**	1	.669" / 17.0mm	344	381
2/0 AWG (8967/38) 70,0mm2 60221**	1	.827" / 21.0mm	483	520
3/0 AWG (12261/38) 95,0mm2 60231**	1	.906" / 23.0mm	657	703

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. - 6020802 - SiFF, 8 AWG (10,0mm2) Blue

* Additional AWG sizes and colors may be available.

SiF-GL Overall Glass Braid Single Core



SiF-GL is a special 180 Degree C. stranded silicone single core with an overall glass fiber braid 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-GL** 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 while the overall fiber glass braid gives added protection in harsh environments. 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
- White overall fiber glass protective braid
- Protection in harsh environments
- 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 6032405	1	.094" / 2.4mm	2	5
20 AWG (16/32) 0,50mm2 6032005	1	.102" / 2.6mm	3	8
18 AWG (24/32) 0,75mm2 6031805	1	.114" / 2.9mm	5	11
17 AWG (32/32) 1,00mm2 6031705	1	.122" / 3.1mm	7	12
16 AWG (30/30) 1,50mm2 6031605	1	.131" / 3.3mm	9	16
14 AWG (50/30) 2,50mm2 6031405	1	.154" / 3.9mm	16	23
12 AWG (56/28) 4,0mm2 6031205	1	.185" / 4.7mm	25	36
10 AWG (84/28) 6,0mm2 6031005	1	.224" / 5.7mm	39	52
8 AWG (80/26) 10,0mm2 6030805	1	.295" / 7.5mm	64	87
6 AWG (128/26) 16,0mm2 6030605	1	.351" / 8.9mm	103	133
4 AWG (200/26) 25,0mm2 6030405	1	.425" / 10.8mm	161	203
2 AWG (280/26) 35,0mm2 6030205	1	.476" / 12.1mm	225	278
1 AWG (400/26) 50,0mm2 6030105	1	.567" / 14.4mm	322	388

Color Code Chart

05 - White

** SiF-GL only available with a white overall glass fiber braid

* Additional AWG sizes may be available.

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.

SiHF-GLP

Overall Steel Wire Braid



SiHF-GLP is a special 180 Degree C. silicone multi-core cable with an overall steel braid 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. **SiHF-GLP** cables are halogen-free and especially suited for use in power stations. The silicone jacket provides added heat-resistance, chemical, oil and acidic resistance. The external galvanized steel braid ensures mechanical protection and disturbance-free transmission of signals and impulses. 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
- Glass fiber tape over jacket
- Galvanized steel wire outer braid
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 2000 volts
- Flexing bending radius: 20 x Ø
- Static 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: 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
18 AWG (24/32) 0,75mm²				
6111802	2	0.311" / 7.9mm	10	60
6111803	3	0.327" / 8.3mm	15	68
6111804	4	0.366" / 9.3mm	19	87
6111805	5	0.398" / 10.1mm	24	105
6111806	6	0.409" / 10.4mm	29	113
6111807	7	0.421" / 10.7mm	34	119
17 AWG (32/32) 1,00mm²				
6111702	2	0.319" / 8.1mm	13	65
6111703	3	0.350" / 8.9mm	19	82
6111704	4	0.370" / 9.4mm	25	95
6111705	5	0.409" / 10.4mm	32	111
6111706	6	0.437" / 11.1mm	39	121
6111707	7	0.465" / 11.8mm	45	132
16 AWG (30/30) 1,50mm²				
6111602	2	0.358" / 9.1mm	19	85
6111603	3	0.374" / 9.5mm	29	97
6111604	4	0.406" / 10.3mm	39	116
6111605	5	0.437" / 11.1mm	48	135
6111606	6	0.465" / 11.8mm	58	158
6111607	7	0.484" / 12.3mm	68	167
6111608	8	0.516" / 13.1mm	77	175
6111612	12	0.610" / 15.5mm	116	219
6111614	14	0.638" / 16.2mm	135	256
6111618	18	0.736" / 18.7mm	174	295
6111624	24	0.846" / 21.5mm	232	402
14 AWG (50/30) 2,50mm²				
6111402	2	0.421" / 10.7mm	32	125
6111403	3	0.441" / 11.2mm	48	138
6111404	4	0.476" / 12.1mm	64	186
6111405	5	0.524" / 13.3mm	80	216
6111406	6	0.563" / 14.3mm	97	235
6111407	7	0.583" / 14.8mm	113	255

Sizes continued on next page.

SiHF-GLP

Overall Steel Wire Braid



SiHF-GLP Sizes Continued. (12 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
12 AWG (56/28) 4,0mm²				
6111202	2	0.492" / 12.5mm	52	161
6111203	3	0.516" / 13.1mm	77	209
6111204	4	0.598" / 15.2mm	103	258
6111205	5	0.634" / 16.1mm	129	305
6111207	7	0.689" / 17.5mm	180	425
10 AWG (84/28) 6,0mm²				
6111002	2	0.594" / 15.1mm	77	215
6111003	3	0.626" / 15.9mm	116	290
6111004	4	0.717" / 18.2mm	154	365
6111005	5	0.764" / 19.4mm	193	440
6111007	7	0.815" / 20.7mm	270	515
8 AWG (80/26) 10,0mm²				
6110804	4	0.870" / 22.1mm	258	620
6 AWG (128/26) 16,0mm²				
6110604	4	1.028" / 26.1mm	412	828
4 AWG (200/26) 25,0mm²				
6110404	4	1.197" / 30.4mm	644	1140

* Additional sizes may be available.

SiHF-C-Si Shielded, Double Jacket



SiHF-C-Si is a special 180 Degree C. silicone jacketed multi-core overall shielded cable for use in high and low temperature areas or whenever insulation is subjected to extreme temperature changes. These cables are mainly found in the steel producing industry and aviation industry as well as in ship building, cement, glass and ceramic factories. Also found in iron works, rolling mills, and foundries. **SiHF-C-Si** cables are halogen-free and especially suited for use in power stations. The silicone jacket provides added heat-resistance, chemical, oil and acidic resistance while the internal tinned copper braid shield protects against electromagnetic interference offering disturbance free signals and impulses. 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
- 85% tinned copper braid
- Silicone outer jacket - reddish/brown
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 2000 volts
- Flexing bending radius: 20 x Ø
- Static 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: 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				
6122002	2	0.343" / 8.7mm	38	68
6122003	3	0.350" / 8.9mm	41	79
6122004	4	0.370" / 9.4mm	45	88
6122005	5	0.398" / 10.1mm	55	103
6122007	7	0.413" / 10.5mm	62	116
6122010	10	0.516" / 13.1mm	83	162
6122012	12	0.528" / 13.4mm	90	176
6122016	16	0.575" / 14.6mm	114	219
6122018	18	0.594" / 15.1mm	121	235
6122025	25	0.764" / 19.4mm	154	300
18 AWG (24/32) 0,75mm2				
6121802	2	0.362" / 9.2mm	42	83
6121803	3	0.374" / 9.5mm	46	91
6121804	4	0.398" / 10.1mm	58	107
6121805	5	0.425" / 10.8mm	64	121
6121807	7	0.457" / 11.6mm	76	142
6121810	10	0.567" / 14.4mm	111	205
6121812	12	0.579" / 14.7mm	121	223
6121816	16	0.650" / 16.5mm	142	280
6121818	18	0.681" / 17.3mm	189	304
6121825	25	0.870" / 22.1mm	199	381
17 AWG (32/32) 1,00mm2				
6121702	2	0.374" / 9.5mm	45	89
6121703	3	0.382" / 9.7mm	58	103
6121704	4	0.409" / 10.4mm	65	116
6121705	5	0.445" / 11.3mm	72	135
6121707	7	0.476" / 12.1mm	95	163
6121710	10	0.587" / 14.9mm	127	193
6121712	12	0.598" / 15.2mm	140	249
6121716	16	0.673" / 17.1mm	168	314
6121718	18	0.701" / 17.8mm	199	353
6121725	25	0.941" / 23.9mm	221	442

Sizes continued on next page.

SiHF-C-Si Shielded, Double Jacket



SiHF-C-Si Sizes Continued. (16 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm²				
6121602	2	0.421" / 10.7mm	59	115
6121603	3	0.441" / 11.2mm	70	133
6121604	4	0.465" / 11.8mm	88	158
6121605	5	0.524" / 13.3mm	99	188
6121607	7	0.563" / 14.3mm	129	231
6121610	10	0.697" / 17.7mm	180	323
6121612	12	0.713" / 18.1mm	200	356
6121616	16	0.791" / 20.1mm	243	444
6121618	18	0.823" / 20.9mm	264	483
6121625	25	0.949" / 24.1mm	327	576
14 AWG (50/30) 2,50mm²				
6121402	2	0.476" / 12.1mm	82	154
6121403	3	0.508" / 12.9mm	99	184
6121404	4	0.559" / 14.2mm	126	228
6121405	5	0.602" / 15.3mm	144	264
6121407	7	0.665" / 16.9mm	178	327
12 AWG (56/28) 4,0mm²				
6121204	4	0.673" / 17.1mm	197	349
6121205	5	0.764" / 19.4mm	251	438
10 AWG (84/28) 6,0mm²				
6121004	4	0.740" / 18.8mm	301	524
6121005	5	0.835" / 21.2mm	378	659
8 AWG (80/26) 10,0mm²				
6120804	4	1.012" / 25.7mm	509	868
6 AWG (128/26) 16,0mm²				
6120604	4	1.118" / 28.4mm	791	1333
4 AWG (200/26) 25,0mm²				
6120404	4	1.382" / 35.1mm	1214	2009
2 AWG (280/26) 35,0mm²				
6120204	4	1.543" / 39.2mm	1723	2799

* Additional sizes may be available.

EWKF Heavy-Duty



EWKF is a special 180 Degree C., heavy duty, notch and tear resistant, black silicone multi-core cable for use where there are high temperature fluctuations and increased mechanical stresses. These cables are mainly found in steel mills, foundries, ceramic and glass factories, cooking plants, baking equipment, electric motor engineering, ship building and aircraft construction, heating and lighting systems, hot rolling mills and sauna systems. **EWKF** offers improved values as **E**-better tear resistance, **W**-improved breaking strength propagation, **K**-better notch strength, **F**-increased flexibility. This robust silicone jacket provides added heat-resistance, chemical, oil and acidic resistance as well as longer durability in harsh applications. Also adds hydrolysis and UV-resistance.



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 EWKF outer jacket - black (RAL 9005)
- Notch, tear and UV resistant
- **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
- Flexing temp: -25° C to +180° C
- Static temp: -50° C to +180° C
- Short time temp up to +220° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 200 MΩ x km

Approvals:

- VDE-0250 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
18 AWG (24/32) 0,75mm2				
6301802	2	0.252" / 6.4mm	10	36
6301803	3	0.268" / 6.8mm	15	43
6301804	4	0.307" / 7.8mm	19	56
6301805	5	0.335" / 8.5mm	24	68
17 AWG (32/32) 1,00mm2				
6301702	2	0.260" / 6.6mm	13	40
6301703	3	0.291" / 7.4mm	19	52
6301704	4	0.319" / 8.1mm	26	64
6301705	5	0.346" / 8.8mm	32	78
6301707	7	0.374" / 9.5mm	45	101
16 AWG (30/30) 1,50mm2				
6301602	2	0.315" / 8.0mm	19	55
6301603	3	0.335" / 8.5mm	29	66
6301604	4	0.374" / 9.5mm	39	82
6301605	5	0.409" / 10.4mm	48	99
6301607	7	0.441" / 11.2mm	68	125
6301612	12	0.587" / 14.9mm	116	211
6301616	16	0.673" / 17.1mm	155	299
6301620	20	0.728" / 18.5mm	193	379
6301624	24	0.835" / 21.2mm	231	484
14 AWG (50/30) 2,50mm2				
6301402	2	0.370" / 9.4mm	32	91
6301403	3	0.386" / 9.8mm	48	102
6301404	4	0.437" / 11.1mm	64	127
6301405	5	0.488" / 12.4mm	80	154
12 AWG (56/28) 4,0mm2				
6301202	2	0.425" / 10.8mm	52	120
6301203	3	0.449" / 11.4mm	77	156
6301204	4	0.516" / 13.1mm	103	201
6301205	5	0.567" / 14.4mm	129	255
10 AWG (84/28) 6,0mm2				
6301002	2	0.531" / 13.5mm	77	215
6301003	3	0.559" / 14.2mm	116	251
6301004	4	0.591" / 15.0mm	154	288
6301005	5	0.701" / 17.8mm	193	368

* Additional sizes may be available.

EWKF-C-Si Shielded Heavy-Duty



EWKF-C-Si is a special 180 Degree C., heavy duty, notch and tear resistant black silicone shielded multi-core cable for use where there are high temperature fluctuations and increased mechanical stresses. These cables are mainly found in steel mills, foundries, ceramic and glass factories, cooking plants, baking equipment, electric motor engineering, ship building and aircraft construction, heating and lighting systems, hot rolling mills and sauna systems. **EWKF-C-Si** offers improved values as **E**-better tear resistance, **W**-improved breaking strength propagation, **K**-better notch strength, **F**-increased flexibility. The robust silicone jacket provides added heat-resistance, chemical, oil and acidic resistance while the internal tinned copper braid shield protects from electromagnetic interference for distortion-free transfers of signals and impulses. Hydrolysis and UV-resistant.



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 inner jacket - reddish/brown
- 85% tinned copper braid
- Silicone EWKF outer jacket - black (RAL 9005)
- Notch, tear and UV resistant
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 2000 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -25° C to +180° C
- Static temp: -50° C to +180° C
- Short time temp up to +220° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 200 MΩ x km

Approvals:

- VDE-0250 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
18 AWG (24/32) 0,75mm2				
6311802	2	0.339" / 8.6mm	25	70
6311803	3	0.350" / 8.9mm	31	79
6311804	4	0.402" / 10.2mm	38	102
6311805	5	0.429" / 10.9mm	45	118
17 AWG (32/32) 1,00mm2				
6311702	2	0.358" / 9.1mm	29	78
6311703	3	0.382" / 9.6mm	38	95
6311704	4	0.429" / 10.9mm	46	117
6311705	5	0.457" / 11.8mm	54	136
6311707	7	0.484" / 12.3mm	76	168
16 AWG (30/30) 1,50mm2				
6311602	2	0.425" / 10.8mm	39	111
6311603	3	0.441" / 11.2mm	50	126
6311604	4	0.476" / 12.1mm	62	149
6311605	5	0.508" / 12.9mm	81	183
6311607	7	0.559" / 14.2mm	105	229
14 AWG (50/30) 2,50mm2				
6311403	3	0.504" / 12.8mm	82	182
6311404	4	0.547" / 13.9mm	101	220
6311405	5	0.594" / 15.1mm	121	260
12 AWG (56/28) 4,0mm2				
6311203	3	0.563" / 14.3mm	115	242
6311204	4	0.634" / 16.1mm	146	300
6311205	5	0.677" / 17.2mm	176	356
10 AWG (84/28) 6,0mm2				
6311003	3	0.646" / 16.4mm	162	328
6311004	4	0.705" / 17.9mm	204	396
6311005	5	0.763" / 19.4mm	248	473

* Additional sizes may be available.

SiHF-UL UL/CSA/CE



SiHF-UL is a special 180 Degree C., UL/CSA/CE approved, 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/CSA/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-UL** cables are halogen-free especially suited for installations in power stations. The silicone jacket provides added heat, chemical, oil, acidic and UV resistance.



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 - black (RAL 9005)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500v (600v UL)
- Test voltage: 2000 volts
- Flexing bending radius: 7.5 x Ø
- Static bending radius: 4 x Ø
- Temp range: -50° C to +180° C
- UL/CSA Temp: +150° C
- Short time temp up to +220° C
- Flame retardant: IEC 60332.1-2, FT-1
- Insulation resistance: 200 MΩ x km

Approvals:

- UL Style 4476
- CSA 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				
6502002	2	0.303" / 7.7mm	7	49
6502003	3	0.319" / 8.1mm	9	55
6502004	4	0.346" / 8.8mm	13	66
6502005	5	0.370" / 9.4mm	16	80
6502006	6	0.409" / 10.4mm	19	88
6502007	7	0.425" / 10.8mm	22	94
6502008	8	0.449" / 11.4mm	25	123
6502010	10	0.504" / 12.8mm	32	135
6502012	12	0.528" / 13.4mm	38	162
6502016	16	0.547" / 13.9mm	51	180
6502018	18	0.567" / 14.4mm	58	209
6502025	25	0.661" / 16.8mm	80	269
18 AWG (32/32) 1,00mm2				
6501802	2	0.323" / 8.2mm	13	59
6501803	3	0.354" / 9.0mm	19	74
6501804	4	0.394" / 10.0mm	25	87
6501805	5	0.417" / 10.6mm	32	108
6501806	6	0.449" / 11.4mm	38	122
6501807	7	0.465" / 11.8mm	45	133
6501808	8	0.488" / 12.4mm	58	168
6501810	10	0.520" / 13.2mm	64	204
6501812	12	0.567" / 14.4mm	77	230
6501816	16	0.618" / 15.7mm	103	296
6501818	18	0.654" / 16.6mm	115	330
6501825	25	0.752" / 19.1mm	161	414
16 AWG (30/30) 1,50mm2				
6501602	2	0.358" / 9.1mm	19	78
6501603	3	0.378" / 9.6mm	29	88
6501604	4	0.417" / 10.6mm	39	111
6501605	5	0.449" / 11.4mm	48	133
6501606	6	0.488" / 12.4mm	59	161
6501607	7	0.520" / 13.2mm	68	175
6501608	8	0.547" / 13.9mm	77	200

Sizes continued on next page.

SiHF-UL UL/CSA/CE



SiHF-UL Sizes Continued. (16 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm2 Cont.				
6501610	10	0.634" / 16.1mm	97	241
6501612	12	0.654" / 16.6mm	115	289
6501614	14	0.709" / 18.0mm	135	349
6501616	16	0.787" / 20.0mm	156	382
6501618	18	0.823" / 20.9mm	174	437
6501620	20	0.858" / 21.8mm	193	486
6501625	25	0.945" / 24.0mm	231	620
6501641	41	1.150" / 29.2mm	386	966
14 AWG (50/30) 2,50mm2				
6501402	2	0.386" / 9.8mm	32	95
6501403	3	0.409" / 10.4mm	48	117
6501404	4	0.457" / 11.6mm	64	146
6501405	5	0.492" / 12.5mm	80	182
6501406	6	0.535" / 13.6mm	97	211
6501407	7	0.555" / 14.1mm	113	222
6501408	8	0.587" / 14.9mm	129	271
6501410	10	0.677" / 17.2mm	161	332
6501412	12	0.827" / 21.0mm	193	372
6501416	16	0.890" / 22.6mm	258	486
6501418	18	0.945" / 24.0mm	290	562
6501425	25	1.134" / 28.8mm	402	743
12 AWG (56/28) 4,0mm2				
6501203	3	0.465" / 11.8mm	77	162
6501204	4	0.508" / 12.9mm	103	204
6501205	5	0.571" / 14.5mm	129	258
6501207	7	0.701" / 17.8mm	180	353
10 AWG (84/28) 6,0mm2				
6501003	3	0.594" / 15.1mm	115	263
6501004	4	0.646" / 16.4mm	156	330
6501005	5	0.717" / 18.2mm	193	409
6501007	7	0.831" / 21.1mm	270	457
8 AWG (80/26) 10,0mm2				
6500803	3	0.744" / 18.9mm	193	302
6500804	4	0.787" / 20.0mm	258	418
6500805	5	0.874" / 22.2mm	322	613
6 AWG (128/26) 16,0mm2				
6500603	3	0.898" / 22.8mm	309	349
6500604	4	0.980" / 24.9mm	412	497
6500605	5	1.059" / 26.9mm	515	651
4 AWG (200/26) 25,0mm2				
6500403	3	1.063" / 27.0mm	483	812
6500404	4	1.264" / 32.1mm	644	1022

* Additional sizes may be available.

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/CSA/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.

SiHF-C-UL UL/CSA 300/500V UL4476 CSA AWM II A/B CE

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
- 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/CSA 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
- CSA 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.

SiHF-C-UL Shielded



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.

H05SS-F Harmonized

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H05SS-F is a special 180 Degree C., harmonized, heavy-duty, tear-resistant black silicone multi-core cable for use in high and low temperature areas or where UV light can be damaging. The harmonization approval on these cables make them ideal for export to or use in European countries and markets. These cables are mainly found in steel mills, foundries, glass factories, baking equipment, burners, heating and lighting systems. The **H05SS-F** have improved characteristics against mechanical stress and is ideal for permanent mechanically protected cable for lighting in industrial applications. 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
- Cross-linked silicone (EI 2) core insulation
- Color code VDE-0293-308
- For 2 cores color code is brown & blue
- 6+ cores, color code is black & white numbers
- Cross-linked silicone (EM 9) outer jacket - black
- Notch, tear and UV resistant
- **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
- Insulation resistance: 200 MΩ x km

Approvals:

- <HAR> HD 22.15 S1
- VDE-0282 Part 15
- VDE-0250 Part-816 (N2MH2G)
- 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
18 AWG (24/32) 0,75mm2				
6401802	2	0.224 - 0.291" / 5.7 - 7.4mm	10	40
6401803	3	0.244 - 0.319" / 6.2 - 8.1mm	15	48
6401804	4	0.268 - 0.346" / 6.8 - 8.8mm	19	62
6401805	5	0.299 - 0.390" / 7.6 - 9.9mm	24	76
17 AWG (32/32) 1,00mm2				
6401702	2	0.240 - 0.315" / 6.1 - 8.0mm	13	45
6401703	3	0.256 - 0.335" / 6.5 - 8.5mm	19	58
6401704	4	0.280 - 0.366" / 7.1 - 9.3mm	25	70
6401705	5	0.315 - 0.406" / 8.0 - 10.3mm	32	87
16 AWG (30/30) 1,50mm2				
6401602	2	0.299 - 0.386" / 7.6 - 9.8mm	19	61
6401603	3	0.315 - 0.409" / 8.0 - 10.4mm	29	74
6401604	4	0.354 - 0.457" / 9.0 - 11.6mm	39	92
6401605	5	0.386 - 0.500" / 9.8 - 12.7mm	48	111
14 AWG (50/30) 2,50mm2				
6401402	2	0.354 - 0.457" / 9.0 - 11.6mm	32	101
6401403	3	0.378 - 0.488" / 9.6 - 12.4mm	48	114
6401404	4	0.421 - 0.543" / 10.7 - 13.8mm	64	142
6401405	5	0.469 - 0.602" / 11.9 - 15.3mm	80	171
12 AWG (56/28) 4,0mm2				
6401203	3	0.445 - 0.571" / 11.3 - 14.5mm	77	221
6401204	4	0.500 - 0.638" / 12.7 - 16.2mm	103	
10 AWG (84/28) 6,0mm2				
6401003	3	0.504 - 0.642" / 12.8 - 16.3mm	116	254
6401004	4	0.559 - 0.713" / 14.2 - 18.1mm	154	331

* Additional sizes may be available.

H05SST-F

Overall Braid

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H05SST-F is a special 180 Degree C., heavy duty, harmonized, tear-resistant black silicone multi-core cable with overall polyester braid for use in high and low temperature areas or where UV light can be damaging. The harmonization approval on these cables make them ideal for export to or use in European countries and markets. These cables are mainly found in steel mills, foundries, glass factories, baking equipment, burners, heating and lighting systems. The robust silicone jacket provides added heat-resistance, chemical, oil and acidic resistance while the overall polyester braid is recommended in harsh environments or in areas of increased mechanical stress. Not permitted for outdoor use.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Cross-linked silicone (EI 2) core insulation
- Color code VDE-0293-308
- For 2 cores color code is brown & blue
- 6+ cores, color code is black & white numbers
- Cross-linked silicone (EM 9) jacket - black
- Overall polyester fiber braid
- Notch, tear and UV resistant
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 2000 volts
- Flexing bending radius: 6 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
- Insulation resistance: 200 MΩ x km

Approvals:

- <HAR> HD 22.15 S1
- VDE-0282 Part 15
- VDE-0250 Part-816 (N2MH2G)
- 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
18 AWG (24/32) 0,75mm2				
6411802	2	0.264 - 0.331" / 6.7 - 8.4mm	10	42
6411803	3	0.283 - 0.358" / 7.2 - 9.1mm	15	50
6411804	4	0.307 - 0.386" / 7.8 - 9.8mm	19	66
6411805	5	0.339 - 0.429" / 8.6 - 10.9mm	24	80
17 AWG (32/32) 1,00mm2				
6411702	2	0.280 - 0.354" / 7.1 - 9.0mm	13	48
6411703	3	0.295 - 0.374" / 7.5 - 9.5mm	19	61
6411704	4	0.319 - 0.406" / 8.1 - 10.3mm	25	74
6411705	5	0.354 - 0.445" / 9.0 - 11.3mm	32	92
16 AWG (30/30) 1,50mm2				
6411602	2	0.339 - 0.425" / 8.6 - 10.8mm	19	65
6411603	3	0.354 - 0.449" / 9.0 - 11.4mm	29	78
6411604	4	0.394 - 0.496" / 10.0 - 12.6mm	39	97
6411605	5	0.425 - 0.539" / 10.8 - 13.7mm	48	117
14 AWG (50/30) 2,50mm2				
6411402	2	0.394 - 0.496" / 10.0 - 12.6mm	32	107
6411403	3	0.417 - 0.528" / 10.6 - 13.4mm	48	121
6411404	4	0.461 - 0.583" / 11.7 - 14.8mm	64	150
6411405	5	0.508 - 0.642" / 12.9 - 16.3mm	80	181
12 AWG (56/28) 4,0mm2				
6411203	3	0.484 - 0.610" / 12.3 - 15.5mm	77	178
6411204	4	0.539 - 0.677" / 13.7 - 17.2mm	103	235
10 AWG (84/28) 6,0mm2				
6411003	3	0.543 - 0.681" / 13.8 - 17.3mm	116	270
6411004	4	0.598 - 0.752" / 15.2 - 19.1mm	154	351

* Additional sizes may be available.

THERM-S-145 Single Core



THERM-S-145 is a special halogen-free, +145° C, single core with increased heat resistance. Mainly used for the internal wiring of lighting fixtures, heaters, electrical machinery, switching systems and distributors in plant equipment and machinery. Suitable for installation on, in or beneath plaster, in closed installation ducts, in traffic systems and outdoor applications. **THERM-S-145** cables have an extremely long-time resistance to temperature and is known among the best halogen-free and flame retardant products in the world. The electron beam cross-linked insulation is resistant to oils and weathering, has good abrasion and notch resistance, resistance to melting and soldering temperatures, UV and ozone resistant and low development of smoke and fumes.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Electron beam cross-linked polyolefin insulation
- Cores to VDE-0293 colors on chart
- **Extremely oil, chemical and ozone resistant**
- Flame retardant: **IEC 60332.3**
- Insulation resistance: 200 MΩ x km

Technical:

- Working voltage: 300/500v (24-17 AWG)
- Working voltage: 450/750v (16 & Larger)
- Protected voltage: 600/1kv
- Test voltage: 3500 volts
- Flexing Radius: 12.5 x Ø
- Static radius: 4 x Ø
- Flexing temp: -35° C to +120° C
- Static temp: -45° C to +145° C

Approvals:

- VDE-0245, 0250, 0281 & 0282
- Halogen-free to IEC 60754-1
- Low smoke to IEC 60754-2
- Smoke density to IEC61034-1
- 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 66024**	1	.063" / 1.6mm	1	3
22 AWG (19/34) 0,33mm2 66022**	1	.067" / 1.7mm	2	4
20 AWG (16/32) 0,50mm2 66020**	1	.075" / 1.9mm	3	5
18 AWG (24/32) 0,75mm2 66018**	1	.087" / 2.2mm	5	7
17 AWG (32/32) 1,00mm2 66017**	1	.098" / 2.5mm	7	9
16 AWG (30/30) 1,50mm2 66016**	1	.114" / 2.9mm	9	13
14 AWG (50/30) 2,50mm2 66014**	1	.138" / 3.5mm	16	20
12 AWG (56/28) 4,0mm2 66012**	1	.169" / 4.3mm	25	32
10 AWG (84/28) 6,0mm2 66010**	1	.213" / 5.4mm	39	48
8 AWG (80/26) 10,0mm2 66008**	1	.264" / 6.7mm	64	80
6 AWG (128/26) 16,0mm2 66006**	1	.331" / 8.4mm	103	122
4 AWG (200/26) 25,0mm2 66004**	1	.402" / 10.2mm	161	182
2 AWG (280/26) 35,0mm2 66002**	1	.457" / 11.6mm	225	249
1 AWG (400/26) 50,0mm2 66001**	1	.539" / 13.7mm	322	355
2/0 AWG (356/24) 70,0mm2 66021**	1	.622" / 15.8mm	451	490
3/0 AWG (485/24) 95,0mm2 66031**	1	.717" / 18.2mm	602	647
4/0 AWG (614/24) 120,0mm2 66041**	1	.795" / 20.2mm	773	828
300 MCM (765/24) 150,0mm2 66030**	1	.870" / 22.1mm	966	1022
350 MCM (944/24) 185,0mm2 66035**	1	.976" / 24.8mm	1114	1241
500 MCM (1225/24) 240,0mm2 66050**	1	1.091" / 27.7mm	1408	1631

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
- 14 - Dark Blue

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.

i.e. - 6601204 - THERM-S-145, 12 AWG (4,00mm2) Red

SIWO-KUL Cables 1.1, 3.3, 6.6 & 13.8 kV

SIWO-KUL is a very flexible single core connection cable. It is manufactured in the voltage range of 1.1kV, 3.3-4.2kV, 6.6-7.2kV and 13.8-15.0kV. The operating temperature for continuous service extends from -55° C up to +180° C.

The use of silicone rubber, a high grade corona resistant insulation material, gives the cable excellent dielectric strength. The braided synthetic yarn covering, which is applied directly over the insulation, gives the cable, because of its short braiding pitch and high compactness, excellent mechanical protection by maintaining good flexibility. The varnishing of the braiding results in good anti-friction properties, high abrasion resistance and excellent chemical resistance against transformer oil, light fuel oils and most types of cleaning agents.

SIWO-KUL cables are halogen-free meaning, in the event of fire, no corrosive and toxic gases will be given off. Hence, damage caused by fire can be kept to a minimum. Compared with other plastic insulated cables, SIWO-KUL generates only little smoke and is therefore defined as “low smoke grade” according to the Guidelines for Fire Regulations. The cables also meet the requirements concerning fire propagation specified in IEEE 383 and IEC 60332-3 respectively.

According to the French specification N.F.F16.101, this cable is BF1 approved which means that it is in compliance with requirements for cables used in the internal wiring of rail cars.

Under the influence of flames, the silicone rubber reduces to silicone oxide, which is an excellent electrical insulator. Because of this chemical reaction, a relatively long functional endurance under fire conditions can be achieved. Tests according to IEC 60331 and VDE 0472 part 814, at rated voltage show a function time of at least 30 minutes.

The insulation thickness has been designed taking into consideration the high dielectric strength of silicone rubber. The breakdown voltage of the finished cable is at least twice the value of the test voltage. The cable meets the requirements of UIC 895 and concerning dielectric strength, BSS 6195 Type 5, voltage categories C, D, E and F.

These cables are UL (Underwriters Laboratories Inc) approved for Appliance Wiring Material (AWM), following styles UL 3640 (1.1kV), UL 3641 (3.3-4.2kV), UL 3642 (6.6-7.2kV) and UL 3643 (13.8-15.0kV)

These cables also carry TYPE Approval certificates by Llyod's Registry and as per Bureau Veritas Marine Division and classification rules as a medium/high voltage cable and high temperature connection cable for use in ship building.

SIWO-KUL cables are in compliance with EU Directives on the limits of certain metals and waste as defined on ROHS (Restriction of Hazardous Substances) and WEEE (Waste from Electrical and Electronic Equipment).

Si - Silicone Rubber Insulation
W - Temperature Resistant
O - Oil Resistant
K - Overall Protective Braid
UL - Varnish Coating over Braid

The different voltages of SIWO-KUL cables are signified by the color of the overall varnished protective braid. 1.1kV is yellow, 3.3-4.2kV is red, 6.6-7.2kV is gray and 13.8-15.0kV is black.

SIWO-KUL 1.1kV



SIWO-KUL 1.1kV is a flexible silicone insulated 1.1kV cable with a class-5 tinned copper strand, semi-conducting tape, silicone rubber core with a yellow overall coated synthetic yarn reinforced braid. This cable is used where high flexibility is required and high temperature conditions exist. It is suitable for connection cable for high voltage machines, transformers, motors and generators. The protective braid gives **SIWO-KUL 1.1kV** cables good antifriction, high abrasion resistance and excellent chemical resistance against transformer oils, light fuel oils and most types of cleaning agents. In the event of fire, the silicone jacket will not give off corrosive or toxic gases and is low smoke as well, making it suitable for traction machines and in ship building.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Silicone rubber core insulation
- Plastic foil separator
- Protective synthetic yarn braid, varnished
- Yellow
- **Extremely oil & chemical resistant**
- **Excellent dielectric strength**
- **High abrasion resistance**

Technical:

- Working voltage: 1.1 kV
- Test voltage: 4.0 kV
- Bending radius: 5 x Ø
- Temp range: -55° C to +180° C
- Intermittent: +220° C
- Short time (1-5 Sec): +350° C
- Flame retardant: IEC 60332.3
- Insulation resistance: 200 MΩ x km

Approvals:

- F1 as per NF F 16-101
- Lloyd's Registry of Shipping
- Bureau Veritas, TYPE Approval
- DIN VDE-0472
- UL Style 3640 (AWM)
- BSS 6195-T5-C-D-E-F
- 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
16 AWG (30/30) 1,5mm2 6200001	1	0.161" / 4.1mm	9	17
14 AWG (50/30) 2,5mm2 6200002	1	0.177" / 4.5mm	16	26
12 AWG (56/30) 4,0mm2 6200004	1	0.197" / 5.0mm	25	38
10 AWG (82/30) 6,0mm2 6200006	1	0.217" / 5.5mm	38	58
8 AWG (78/26) 10,0mm2 6200010	1	0.252" / 6.4mm	64	87
6 AWG (119/26) 16,0mm2 6200016	1	0.335" / 8.5mm	103	138
4 AWG (188/26) 25,0mm2 6200025	1	0.413" / 10.5mm	161	215
2 AWG (264/26) 35,0mm2 6200035	1	0.465" / 11.8mm	225	289
1 AWG (380/26) 50,0mm2 6200050	1	0.555" / 14.1mm	322	411
2/0 AWG (342/24) 70,0mm2 6200070	1	0.634" / 16.1mm	451	567
3/0 AWG (456/24) 95,0mm2 6200095	1	0.720" / 18.3mm	612	766
4/0 AWG (576/24) 120,0mm2 6200120	1	0.795" / 20.2mm	773	961
300 MCM (720/24) 150,0mm2 6200150	1	0.886" / 22.5mm	966	1180
350 MCM (888/24) 185,0mm2 6200185	1	0.980" / 24.9mm	1191	1475
500 MCM (1152/24) 240,0mm2 6200240	1	1.075" / 27.3mm	1570	1871
600 MCM (1464/24) 300,0mm2 6200300	1	1.232" / 31.3mm	1932	2321

SIWO-KUL 3.3kv



SIWO-KUL 3.3kV is a flexible silicone insulated 3.3-4.2kV cable with a class-5 tinned copper strand, semi-conducting tape, silicone rubber core with a red overall coated synthetic yarn reinforced braid. This cable is used where high flexibility is required and high temperature conditions exist. It is suitable for connection cable for high voltage machines, transformers, motors and generators. The protective braid gives **SIWO-KUL 3.3kV** cables good antifriction, high abrasion resistance and excellent chemical resistance against transformer oils, light fuel oils and most types of cleaning agents. In the event of fire, the silicone jacket will not give off corrosive or toxic gases and is low smoke as well, making it suitable for traction machines and in ship building.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Silicone rubber core insulation
- Plastic foil separator
- Protective synthetic yarn braid, varnished
- Reddish/brown
- **Extremely oil & chemical resistant**
- **Excellent dielectric strength**
- **High abrasion resistance**

Technical:

- Working voltage: 3.3 - 4.2 kV
- Test voltage: 10 kV
- Bending radius: 5 x Ø
- Temp range: -55° C to +180° C
- Intermittent: +220° C
- Short time (1-5 Sec): +350° C
- Flame retardant: IEC 60332.3
- Insulation resistance: 200 MΩ x km

Approvals:

- F1 as per NF F 16-101
- Lloyd's Registry of Shipping
- Bureau Veritas, TYPE Approval
- DIN VDE-0472
- UL Style 3641 (AWM)
- BSS 6195-T5-C-D-E-F
- 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
16 AWG (30/30) 1,5mm2 6210001	1	0.232" / 5.9mm	9	39
14 AWG (50/30) 2,5mm2 6210002	1	0.248" / 6.3mm	16	56
12 AWG (56/30) 4,0mm2 6210004	1	0.272" / 6.9mm	25	68
10 AWG (82/30) 6,0mm2 6210006	1	0.287" / 7.3mm	38	85
8 AWG (78/26) 10,0mm2 6210010	1	0.327" / 8.3mm	64	118
6 AWG (119/26) 16,0mm2 6210016	1	0.409" / 10.4mm	103	169
4 AWG (188/26) 25,0mm2 6210025	1	0.472" / 12.0mm	161	245
2 AWG (264/26) 35,0mm2 6210035	1	0.520" / 13.2mm	225	323
1 AWG (380/26) 50,0mm2 6210050	1	0.610" / 15.5mm	322	442
2/0 AWG (342/24) 70,0mm2 6210070	1	0.689" / 17.5mm	451	603
3/0 AWG (456/24) 95,0mm2 6210095	1	0.783" / 19.9mm	612	807
4/0 AWG (576/24) 120,0mm2 6210120	1	0.858" / 21.8mm	773	1007
300 MCM (720/24) 150,0mm2 6210150	1	0.933" / 23.7mm	966	1215
350 MCM (888/24) 185,0mm2 6210185	1	1.012" / 25.7mm	1191	1498
500 MCM (1152/24) 240,0mm2 6210240	1	1.106" / 28.1mm	1570	1906
600 MCM (1464/24) 300,0mm2 6210300	1	1.236" / 31.4mm	1932	2340

SIWO-KUL 6.6kV



SIWO-KUL 6.6kV is a flexible silicone insulated 6.6-7.2kV cable with a class-5 tinned copper strand, semi-conducting tape, silicone rubber core with a gray overall coated synthetic yarn reinforced braid. This cable is used where high flexibility is required and high temperature conditions exist. It is suitable for connection cable for high voltage machines, transformers, motors and generators. The protective braid gives **SIWO-KUL 6.6kV** cables good antifriction, high abrasion resistance and excellent chemical resistance against transformer oils, light fuel oils and most types of cleaning agents. In the event of fire, the silicone jacket will not give off corrosive or toxic gases and is low smoke as well, making it suitable for traction machines and in ship building.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Silicone rubber core insulation
- Plastic foil separator
- Protective synthetic yarn braid, varnished
- Gray
- **Extremely oil & chemical resistant**
- **Excellent dielectric strength**
- **High abrasion resistance**

Technical:

- Working voltage: 6.6 - 7.2 kV
- Test voltage: 20 kV
- Bending radius: 6 x Ø
- Temp range: -55° C to +180° C
- Intermittent: +220° C
- Short time (1-5 Sec): +350° C
- Flame retardant: IEC 60332.3
- Insulation resistance: 200 MΩ x km

Approvals:

- F1 as per NF F 16-101
- Lloyd's Registry of Shipping
- Bureau Veritas, TYPE Approval
- DIN VDE-0472
- UL Style 3642 (AWM)
- BSS 6195-T5-C-D-E-F
- 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
12 AWG (56/30) 4,0mm ² 6220004	1	0.315" / 8.0mm	25	82
10 AWG (82/30) 6,0mm ² 6220006	1	0.335" / 8.5mm	38	105
8 AWG (78/26) 10,0mm ² 6220010	1	0.370" / 9.4mm	64	140
6 AWG (119/26) 16,0mm ² 6220016	1	0.406" / 10.3mm	103	193
4 AWG (188/26) 25,0mm ² 6220025	1	0.512" / 13.0mm	161	282
2 AWG (264/26) 35,0mm ² 6220035	1	0.559" / 14.2mm	225	363
1 AWG (380/26) 50,0mm ² 6220050	1	0.650" / 16.5mm	322	486
2/0 AWG (342/24) 70,0mm ² 6220070	1	0.728" / 18.5mm	451	653
3/0 AWG (456/24) 95,0mm ² 6220095	1	0.795" / 20.2mm	612	864
4/0 AWG (576/24) 120,0mm ² 6220120	1	0.874" / 22.2mm	773	1069
300 MCM (720/24) 150,0mm ² 6220150	1	0.953" / 24.2mm	966	1281
350 MCM (888/24) 185,0mm ² 6220185	1	1.031" / 26.2mm	1191	1572
500 MCM (1152/24) 240,0mm ² 6220240	1	1.126" / 28.6mm	1570	1977
600 MCM (1464/24) 300,0mm ² 6220300	1	1.272" / 32.3mm	1932	2418

* Additional sizes may be available.

SIWO-KUL 13.8kV



SIWO-KUL 13.8kV is a flexible silicone insulated 13.8-15kV cable with a class-5 tinned copper strand, semi-conducting tape, silicone rubber core with a black overall coated synthetic yarn reinforced braid. This cable is used where high flexibility is required and high temperature conditions exist. It is suitable for connection cable for high voltage machines, transformers, motors and generators. The protective braid gives **SIWO-KUL 13.8kV** cables good antifriction, high abrasion resistance and excellent chemical resistance against transformer oils, light fuel oils and most types of cleaning agents. In the event of fire, the silicone jacket will not give off corrosive or toxic gases and is low smoke as well, making it suitable for traction machines and in ship building.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Silicone rubber core insulation
- Plastic foil separator
- Protective synthetic yarn braid, varnished
- Black
- **Extremely oil & chemical resistant**
- **Excellent dielectric strength**
- **High abrasion resistance**

Technical:

- Working voltage: 13.8 - 15.0 kV
- Test voltage: 31 kV
- Bending radius: 6 x Ø
- Temp range: -55° C to +180° C
- Intermittent: +220° C
- Short time (1-5 Sec): +350° C
- Flame retardant: IEC 60332.3
- Insulation resistance: 200 MΩ x km

Approvals:

- F1 as per NF F 16-101
- Lloyd's Registry of Shipping
- Bureau Veritas, TYPE Approval
- DIN VDE-0472
- UL Style 3643 (AWM)
- BSS 6195-T5-C-D-E-F
- 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
10 AWG (82/30) 6,0mm2 6230006	1	0.437" / 11.1mm	38	138
8 AWG (78/26) 10,0mm2 6230010	1	0.476" / 12.1mm	64	196
6 AWG (119/26) 16,0mm2 6230016	1	0.551" / 14.0mm	103	255
4 AWG (188/26) 25,0mm2 6230025	1	0.614" / 15.6mm	161	343
2 AWG (264/26) 35,0mm2 6230035	1	0.657" / 16.7mm	225	429
1 AWG (380/26) 50,0mm2 6230050	1	0.736" / 18.7mm	322	559
2/0 AWG (342/24) 70,0mm2 6230070	1	0.815" / 20.7mm	451	735
3/0 AWG (456/24) 95,0mm2 6230095	1	0.886" / 22.5mm	612	941
4/0 AWG (576/24) 120,0mm2 6230120	1	0.957" / 24.3mm	773	1153
300 MCM (720/24) 150,0mm2 6230150	1	1.051" / 26.7mm	966	1369
350 MCM (888/24) 185,0mm2 6230185	1	1.130" / 28.7mm	1191	1669
500 MCM (1152/24) 240,0mm2 6230240	1	1.220" / 31.0mm	1570	2063
600 MCM (1464/24) 300,0mm2 6230300	1	1.358" / 34.5mm	1932	2456

* Additional sizes may be available.