

# Silicone insulated cord SiHF



<b>Conductor material:</b>	tinned copper
<b>Conductor class:</b>	class 5 = fine stranded
<b>Insulation:</b>	silicone rubber
<b>Sheathing material:</b>	silicone rubber
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>Halogen-free:</b>	DIN EN 50267/IEC 60754
<b>UV-resistant:</b>	no
<b>Oil-resistant:</b>	yes
<b>Maximum permitted conductor temperature:</b>	180 °C
<b>Permitted outer cable temperature, fixed installation:</b>	-60 - +180 °C
<b>Bending radius, fixed installation:</b>	5 x DA
<b>Bending radius, moving application:</b>	15 x DA

	<i>SiHF-J</i>	<i>SiHF-O</i>
<b>Nominal voltage U<sub>0</sub>:</b>	300 V	300 V
<b>Nominal voltage U:</b>	500 V	500 V
<b>Test voltage:</b>	2 kV	2 kV
<b>Protective conductor:</b>	yes	no
<b>Core identification:</b>	colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers	

**Application:** For connection of mobile electrical appliances without mechanical stress at increased ambient temperatures, for example in steelworks, but also at low temperatures. Insulation and sheath are resistant to most oils, greases, acids, lyes and oxidants. For fixed installation in mechanically protected conduits. For indoor and outdoor use.



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Table: Technical characteristics SiHF-J

p/n	part name	R <sub>l</sub> [Ω/km]	I <sub>bl</sub> [A]	D <sub>A</sub> [mm]	Cu [kg/km]	G [kg/km]
035233	SiHF-J 03X0,5 RT	40,1	9	5,9	14,4	42
035234	SiHF-J 04X0,5 RT	40,1	9	6,6	19,2	54
035235	SiHF-J 05X0,5 RT	40,1	9	7,3	24	62
035236	SiHF-J 07X0,5 RT	40,1	9	8,1	34	82
035237	SiHF-J 10X0,5 RT	40,1	9	10,4	48,1	124
035238	SiHF-J 12X0,5 RT	40,1	9	10,8	57,6	141
035239	SiHF-J 16X0,5 RT	40,1	9	12,3	76,8	186
035240	SiHF-J 18X0,5 RT	40,1	9	12,9	86,5	211

p/n	part name	R <sub>l</sub> [Ω/km]	I <sub>bl</sub> [A]	D <sub>A</sub> [mm]	Cu [kg/km]	G [kg/km]
030709	SiHF-J 03X0,75 RT	26,7	12	6,8	21,6	66
030710	SiHF-J 04X0,75 RT	26,7	12	7,8	28,8	84
030942	SiHF-J 05X0,75 RT	26,7	12	8,5	36	101
031120	SiHF-J 06X0,75 RT	26,7	12	9,4	43,2	126
030943	SiHF-J 07X0,75 RT	26,7	12	9,6	50,4	158
035547	SiHF-J 12X0,75 RT	26,7	12	11,1	86,5	178
035548	SiHF-J 18X0,75 RT	26,7	12	13,3	130	260
035549	SiHF-J 25X0,75 RT	26,7	12	15,6	180	370
030676	SiHF-J 03X1 RT	20	15	7,4	28,8	78
030682	SiHF-J 04X1 RT	20	15	8	38,4	95
030944	SiHF-J 05X1 RT	20	15	8,8	48	116
030678	SiHF-J 07X1 RT	20	15	10	67,2	177
035895	SiHF-J 12X1 RT	20	15	12,6	115,2	256
035104	SiHF-J 16X1 RT	20	15	14,3	154	302
035896	SiHF-J 18X1 RT	20	15	15,1	172,9	374
032872	SiHF-J 20X1 RT	20	15	15,8	192	400
036093	SiHF-J 25X1 RT	20	15	18,5	240	431
030680	SiHF-J 03X1,5 RT	13,7	18	8	43,2	98
030665	SiHF-J 04X1,5 RT	13,7	18	8,8	57,6	122
030711	SiHF-J 05X1,5 RT	13,7	18	9,6	72	148
030800	SiHF-J 07X1,5 RT	13,7	18	10,9	101	232
032635	SiHF-J 08X1,5 RT	13,7	18	11,6	115,2	213
030791	SiHF-J 12X1,5 RT	13,7	18	14,8	172,8	332
032625	SiHF-J 18X1,5 RT	13,7	18	17,6	259,2	510
030945	SiHF-J 20X1,5 RT	13,7	18	18,5	288	549
030946	SiHF-J 24X1,5 RT	13,7	18	20,2	345,6	635
036094	SiHF-J 25X1,5 RT	13,7	18	21	360	449
030664	SiHF-J 03X2,5 RT	8,21	26	9,7	72	152
030674	SiHF-J 04X2,5 RT	8,21	26	10,6	96	189
030691	SiHF-J 05X2,5 RT	8,21	26	11,6	120	229
030766	SiHF-J 07X2,5 RT	8,21	26	12,9	168	348
033890	SiHF-J 12X2,5 RT	8,21	26	17,5	288	530
033511	SiHF-J 16X2,5 RT	8,21	26	19,1	384	659
032636	SiHF-J 19X2,5 RT	8,21	26	21,1	456	912
035899	SiHF-J 21X2,5 RT	8,21	26	23	504	1008
032314	SiHF-J 25X2,5 RT	8,21	26	25,7	600	1200
031126	SiHF-J 03X4 RT	4,95	34	11,5	115	249
030668	SiHF-J 04X4 RT	5,09	34	13	154	330
030696	SiHF-J 05X4 RT	4,95	34	15	192	359
031127	SiHF-J 07X4 RT	4,95	34	16,2	269	487
031129	SiHF-J 03X6 RT	3,39	44	14,2	173	352
031130	SiHF-J 04X6 RT	3,39	44	16,2	230	429
030690	SiHF-J 05X6 RT	3,39	44	17,7	288	564
030951	SiHF-J 07X6 RT	3,39	44	19,3	403	685
030708	SiHF-J 04X10 RT	1,95	61	21,4	384	710
030707	SiHF-J 04X16 RT	1,24	82	24	615	1014
031332	SiHF-J 04X25 RT	0,795	108	29,3	960	1460
032880	SiHF-J 04X35 RT	0,565	135	33	1344	2044
032847	SiHF-J 04X50 RT	0,393	168	34	1920	2990
035844	SiHF-J 04X70 RT	0,277	207	44,5	2688	3550
035845	SiHF-J 04X95 RT	0,21	250	51	3648	4800
033749	SiHF-J 05X10 RT	1,95	61	22,5	480	900
031611	SiHF-J 05X16 RT	1,24	82	26,9	768	1206
035606	SiHF-J 05X35 RT	0,565	135	36,7	1680	2850

Table: Technical characteristics SiHF-O

p/n	part name	R <sub>l</sub> [Ω/km]	I <sub>bl</sub> [A]	D <sub>A</sub> [mm]	Cu [kg/km]	G [kg/km]
031179	SiHF-O 02X0,75 RT	26,7	12	6,4	14,4	57

p/n	part name	R <sub>l</sub> [Ω/km]	I <sub>bl</sub> [A]	D <sub>A</sub> [mm]	Cu [kg/km]	G [kg/km]
035149	SiHF-O 03X0,75 RT	26,7	12	6,8	21,6	66
031180	SiHF-O 02X1 RT	20	15	6,6	19,2	64
031181	SiHF-O 02X1,5 RT	13,7	18	7,6	28,8	87
031182	SiHF-O 02X2,5 RT	8,21	26	9,2	48	137
031183	SiHF-O 02X4 RT	4,95	34	10,8	76,8	192
031184	SiHF-O 02X6 RT	3,39	44	13,4	116	289

RI	Conductor resistance
Ibl	Ampacity in air (30 °C)
DA	Outer diameter approx.
Cu	Copper weight (GER)
G	weight