

TECHNICAL DATA

SIAF - High Temperature Cable

DESCRIPTION & APPLICATIONS

SIAF is used in the internal wiring of appliances, lighting, power supplies & electronics, where no mechanical protection is required.



PROPERTIES

Voltage	500 volts
Test voltage	2,000 volts
Operating temperature	-60°C to + 180°C
Conductor	Flexible stranded copper wire, Class 5 IEC 228
Insulation	Silicone rubber
Colours	Red, Black, Blue, Brown, Green, Green/Yellow, Grey, Orange, Violet, White, Pink. (Specials available on request).

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Cross Sectional Area	Conductor Diameter	Insulation Thickness	Outside Diameter	Nominal Weight	Current Rating at 30°C	Current Rating at 60°C	Current Rating at 90°C	Current Rating at 120°C	Current Rating at 180°C
mm ²	mm	mm	mm	Kg/Km	Amps	Amps	Amps	Amps	Amps
0.5	0.21	0.6	2.1	9.6	18	16	13	10	2
0.75	0.21	0.6	2.4	13.3	21	19	16	12	3
1	0.21	0.6	2.5	15.9	34	31	26	20	5
1.5	0.26	0.6	2.8	21.9	42	38	32	25	6
2.50	0.26	0.7	3.4	34.7	58	53	45	35	7
4	0.31	0.8	4.2	24.4	77	70	60	47	10
6	0.31	0.8	5.2	82.3	95	86	74	59	13
10	0.41	1	6.4	131.9	185	122	105	82	17
16	0.41	1.2	8	209.1	185	168	144	113	24
25	0.41	1.4	10	326.7	250	228	195	153	32
35	0.41	1.4	11.2	438.8	310	281	241	189	39
50	0.41	1.6	13.3	624	390	355	304	238	49
70	0.51	1.6	15.4	860	500	455	390	307	65
95	0.51	1.8	17.8	1161	600	546	468	368	78
120	0.51	1.8	19.8	1456.2	690	628	538	423	88
150	0.51	2	21.5	1784.8	780	710	608	477	100
185	0.51	2.2	24.4	2233.4	850	774	663	520	107
240	0.51	2.4	26.8	2828.6	950	865	741	582	123
300	0.51	2.6	29.6	2508.2					

DERATING FACTORS

No of Conductors	Derating factor	No of Conductors	Derating factor
2 - 3	0.70	25 - 42	0.39
4 - 6	0.56	43+	0.32
7 - 24	0.45		

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