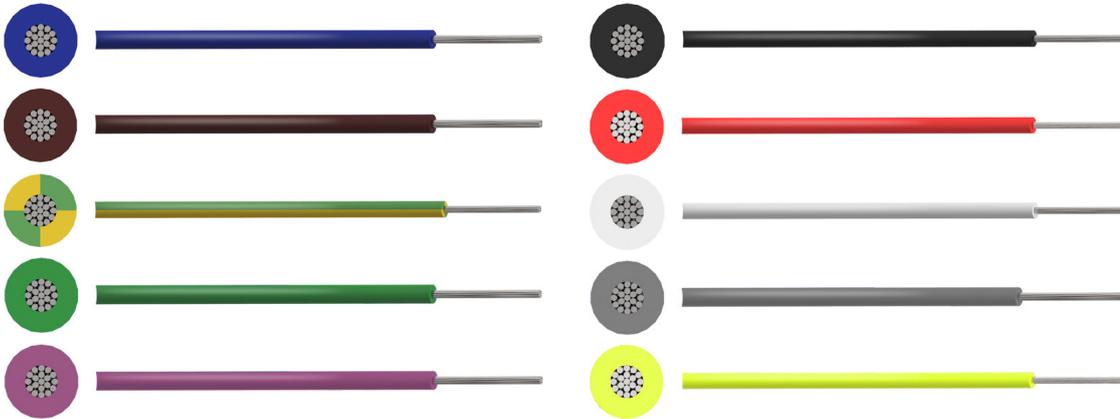# High Temperature SIAF
Flexible Silicone Wire

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RoHS Compliant

Application:

Designed for use in environments where sustained heat resistance is required, SIAF wire has heat resistant properties up to 180°C and can also be employed at temperatures as low as -60°C. This wire is low smoke zero halogen and is suitable for power plants, a wide range of industrial applications in processing, packaging, refrigeration, foundaries, air craft construction and ship building.

Construction:

Conductor:

SIAF/H05S-K - Class 5 flexible tinnned copper conductor according to BS EN 60228 (previously BS 6360)

Insulation:
Silicone rubber

Characteristics:

Voltage Rating (Uo/U)
0.25mm^2 to 2.5mm^2 : 300/500V

Temperature Rating:
Fixed: -60°C to +180°C

Min. Bending Radius:
Fixed   : 4 x overall diamater

Sheath Colour:
Blue, Brown, Green/Yellow, Black, Red, White, Green, Grey, Purple & Yellow

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Dimensions:

Flexible Core Silicone Rubber Insulated Cable (SIAF)

Part Number	Colour	No. of Cores	Nominal Cross Sectional Area mm²	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/km
PP002653	Black					
PP002654	Blue					
PP002655	Brown					
PP002656	Green					
PP002657	Grey		0.25	0.6	1.8	7
PP002658	Purple					
PP002659	Red					
PP002660	White					
PP002661	Yellow					
PP001074	Blue					
PP001075	Brown					
PP001076	Green/Yellow		0.5		2.1	10
PP001077	Black					
PP001078	Red					
PP001079	White					
PP001080	Blue					
PP001081	Brown	1				
PP001082	Green/Yellow		0.75		2.3	13
PP001083	Black					
PP001084	Red					
PP001085	White			0.6		
PP001086	Blue					
PP001087	Brown					
PP001088	Green/Yellow		1		2.5	15
PP001089	Black					
PP001090	Red					
PP001091	White					
PP001092	Blue					
PP001093	Brown					
PP001094	Green/Yellow		1.5		2.8	21
PP001095	Black					
PP001096	Red					
PP001097	White					

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Part Number	Colour	No. of Cores	Nominal Cross Sectional Area mm²	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/km
PP001098	Blue	1	2.5	0.7	3.5	34
PP001099	Brown					
PP001100	Green/Yellow					
PP001101	Black					
PP001102	Red					
PP001103	White					

Conductors

Class 5 Flexible Copper Conductors for Single Core Wire (SIAF)

Nominal Cross Sectional Area mm²	Max. Diameter of Wires in Conductor mm	Max. Resistance of Conductor at 20°C
		Metal-Coated Wires Ω/km
0.25	0.21	86
0.5	0.21	40.1
0.75	0.21	26.7
1	0.21	20
1.5	0.26	13.7
2.5	0.26	8.21

The above table is in accordance with BS EN 60228 (previously BS 6360)

Electrical Characteristics:

Flexible Core Silicone Rubber Insulated Wire (SIAF)

Nominal Cross Sectional Area mm²	Current Rating in Air Amps					
	at 30°C	at 60°C	at 90°C	at 120°C	at 150°C	at 170°C
0.25	15	13	11	9	6	3
0.5	23	20	17	13	9	5
0.75	30	26	22	17	11	6
1	35	31	26	20	13	7
1.5	44	38	52	25	17	8
2.5	61	53	45	35	23	12

Conductor operating temperature 180°C

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Part Number Table

Description	Nominal Cross Sectional Area mm²	Colour	Reel Length	Part Number
High Temperature SIAF Flexible Silicone Wire	0.25	Black	100m	PP002653
		Blue		PP002654
		Brown		PP002655
		Green		PP002656
		Grey		PP002657
		Purple		PP002658
		Red		PP002659
		White		PP002660
		Yellow		PP002661
	0.5	Blue		PP001074
		Brown		PP001075
		Green/Yellow		PP001076
		Black		PP001077
		Red		PP001078
		White		PP001079
	0.75	Blue		PP001080
		Brown		PP001081
		Green/Yellow		PP001082
		Black		PP001083
		Red		PP001084
		White		PP001085
	1	Blue		PP001086
		Brown		PP001087
		Green/Yellow		PP001088
		Black		PP001089
		Red		PP001090
		White		PP001091
	1.5	Blue		PP001092
		Brown		PP001093
		Green/Yellow		PP001094
		Black		PP001095
		Red		PP001096
		White		PP001097

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Description	Nominal Cross Sectional Area mm²	Colour	Reel Length	Part Number
High Temperature SIAF Flexible Silicone Wire	2.5	Blue	100m	PP001098
		Brown		PP001099
		Green/Yellow		PP001100
		Black		PP001101
		Red		PP001102
		White		PP001103

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