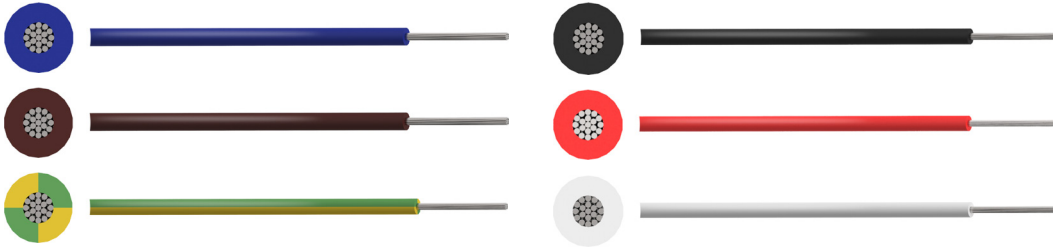


# High Temperature SIAF

Flexible Silicone Wire BS EN 50525-2-41

pro-POWER

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, foundries, air craft construction and ship building.

## Construction:

### Conductor:

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

### Insulation:

Silicone rubber

## Cable Standards:

Made in accordance with the following:  
BS EN 50525-2-41 (0.5mm<sup>2</sup> to 2.5mm<sup>2</sup>)

## Characteristics:

### Voltage Rating (Uo/U)

0.5mm<sup>2</sup> to 2.5mm<sup>2</sup> : 300/500V

### Temperature Rating:

Fixed: -60°C to +180°C

### Min. Bending Radius:

Fixed : 4 x overall diameter

### Sheath Colour:

Blue, Brown, Green/Yellow, Black, Red & White

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## Dimensions:

Flexible Core Silicone Rubber Insulated Cable (SIAF)

Part Number	Colour	No. of Cores	Nominal Cross Sectional Area mm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/km
PP001074	Blue	1	0.5	0.6	2.1	10
PP001075	Brown					
PP001076	Green/Yellow					
PP001077	Black					
PP001078	Red					
PP001079	White					
PP001080	Blue		0.75		2.3	13
PP001081	Brown					
PP001082	Green/Yellow					
PP001083	Black					
PP001084	Red					
PP001085	White					
PP001086	Blue		1		2.5	15
PP001087	Brown					
PP001088	Green/Yellow					
PP001089	Black					
PP001090	Red					
PP001091	White					
PP001092	Blue		1.5		2.8	21
PP001093	Brown					
PP001094	Green/Yellow					
PP001095	Black					
PP001096	Red					
PP001097	White					
PP001098	Blue	2.5	0.7	3.5	34	
PP001099	Brown					
PP001100	Green/Yellow					
PP001101	Black					
PP001102	Red					
PP001103	White					

# High Temperature SIAF

## Flexible Silicone Wire BS EN 50525-2-41

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### Conductors

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

Nominal Cross Sectional Area mm <sup>2</sup>	Max. Diameter of Wires in Conductor mm	Max. Resistance of Conductor at 20°C	
		Plain Wires Ω/km	Metal-Coated Wires Ω/km
0.5	0.21	39	40.1
0.75	0.21	26	26.7
1	0.21	19.5	20
1.5	0.26	13.3	13.7
2.5	0.26	7.98	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 mm <sup>2</sup>	Current Rating in Air Amps					
	at 30°C	at 60°C	at 90°C	at 120°C	at 150°C	at 170°C
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

### Part Number Table

Description	Nominal Cross Sectional Area mm <sup>2</sup>	Colour	Reel Length	Part Number
High Temperature SIAF Flexible Silicone Wire BS EN 50525-2-41	0.5	Blue	100m	PP001074
		Brown		PP001075
		Green/Yellow		PP001076
		Black		PP001077
		Red		PP001078
		White		PP001079
	0.75	Blue		PP001080
		Brown		PP001081
		Green/Yellow		PP001082
		Black		PP001083

# High Temperature SIAF

Flexible Silicone Wire BS EN 50525-2-41

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Description	Nominal Cross Sectional Area mm <sup>2</sup>	Colour	Reel Length	Part Number
High Temperature SIAF Flexible Silicone Wire BS EN 50525-2-41	0.75	Red	100m	PP001084
		White		PP001085
	1	Blue		PP001086
		Brown		PP001087
		Green/Yellow		PP001088
		Black		PP001089
		Red		PP001090
		White		PP001091
		1.5		Blue
	Brown			PP001093
	Green/Yellow			PP001094
	Black			PP001095
	Red			PP001096
	White			PP001097
	2.5	Blue		PP001098
		Brown		PP001099
		Green/Yellow		PP001100
		Black		PP001101
		Red		PP001102
				White

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