

## TECHNICAL DATA

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### SIAF

### High Temperature Silicone Cable

#### DESCRIPTION & APPLICATIONS

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



#### PROPERTIES

|                       |                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| Voltage               | 300/500 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). |

#### TECHNICAL DATA

| 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 <sup>2</sup>      | 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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