



## SRG-K INSTRUMENTATION CABLES

Flexible Silicone Rubber Glass Braid Conductors with an Alum/Mylar Shield and Drain and an Overall Aramid Fiber Jacket, Temp Rating 200°C, 600V



Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Stranded tinned, annealed copper per ASTM B33
2. **Insulation:** Silicone Rubber with a fiberglass braid over the insulation
3. **Shielding:** An alum/mylar shield and drain is applied over the core
4. **Jacket:** K-Fiber braid, treated with a high temperature saturant, covers the shielded core

### APPLICATIONS AND FEATURES:

Used for equipment wiring, as well as signal and control circuits. Ideal in locations where high temperature or hazardous conditions exist that require heat resistance at 600 volts.

K Fiber Jacket provides improved mechanical strength and abrasion resistance. Flexible. Good chemical resistance. Excellent electrical properties. Passes IEEE 383 70,000 BTU/Hr Flame test while maintaining circuit integrity.

### SPECIFICATIONS:

- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- IEEE 383 Flame Test (70,000 btu)
- RoHS-3 Complies with European Directive 2015/863



**Table 1 – Weights and Measurements**

| Stock Number | Cond. Size<br>AWG/Kcmil | Cond. Number<br>No. | Insul. Thickness<br>mil | Approx. OD<br>inch | Approx. Weight<br>lb/1000ft | Temp. Rating<br>°C | Standard (UL or other)<br>Style/Type |
|--------------|-------------------------|---------------------|-------------------------|--------------------|-----------------------------|--------------------|--------------------------------------|
| C51000       | 18                      | 2                   | 30                      | 0.290              | 40                          | 200                | Non-UL                               |
| C51005       | 18                      | 3                   | 30                      | 0.315              | 50                          | 200                | Non-UL                               |
| C51010       | 18                      | 4                   | 30                      | 0.330              | 65                          | 200                | Non-UL                               |
| C51015       | 18                      | 5                   | 30                      | 0.350              | 80                          | 200                | Non-UL                               |
| C51020       | 18                      | 7                   | 30                      | 0.440              | 110                         | 200                | Non-UL                               |
| C51030       | 18                      | 12                  | 30                      | 0.560              | 205                         | 200                | Non-UL                               |
| C51040       | 18                      | 19                  | 30                      | 0.680              | 320                         | 200                | Non-UL                               |
| C51050       | 18                      | 37                  | 30                      | 0.915              | 630                         | 200                | Non-UL                               |
| C51100       | 16                      | 2                   | 30                      | 0.345              | 43                          | 200                | Non-UL                               |
| C51105       | 16                      | 3                   | 30                      | 0.360              | 60                          | 200                | Non-UL                               |
| C51110       | 16                      | 4                   | 30                      | 0.400              | 75                          | 200                | Non-UL                               |
| C51115       | 16                      | 5                   | 30                      | 0.435              | 95                          | 200                | Non-UL                               |
| C51120       | 16                      | 7                   | 30                      | 0.475              | 130                         | 200                | Non-UL                               |
| C51130       | 16                      | 12                  | 30                      | 0.625              | 220                         | 200                | Non-UL                               |
| C51140       | 16                      | 19                  | 30                      | 0.735              | 350                         | 200                | Non-UL                               |
| C51150       | 16                      | 37                  | 30                      | 0.995              | 660                         | 200                | Non-UL                               |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

**Table 2 – Weights and Measurements (Metric)**

| Stock Number | Cond. Size<br>AWG/Kcmil | Cond. Number<br>No. | Insul. Thickness<br>mm | Approx. OD<br>mm | Approx. Weight<br>kg/km | Temp. Rating<br>°C | Standard (UL or other)<br>Style/Type |
|--------------|-------------------------|---------------------|------------------------|------------------|-------------------------|--------------------|--------------------------------------|
| C51000       | 18                      | 2                   | 0.76                   | 7.37             | 60                      | 200                | Non-UL                               |
| C51005       | 18                      | 3                   | 0.76                   | 8.00             | 74                      | 200                | Non-UL                               |
| C51010       | 18                      | 4                   | 0.76                   | 8.38             | 97                      | 200                | Non-UL                               |
| C51015       | 18                      | 5                   | 0.76                   | 8.89             | 119                     | 200                | Non-UL                               |
| C51020       | 18                      | 7                   | 0.76                   | 11.18            | 164                     | 200                | Non-UL                               |
| C51030       | 18                      | 12                  | 0.76                   | 14.22            | 305                     | 200                | Non-UL                               |
| C51040       | 18                      | 19                  | 0.76                   | 17.27            | 476                     | 200                | Non-UL                               |
| C51050       | 18                      | 37                  | 0.76                   | 23.24            | 938                     | 200                | Non-UL                               |
| C51100       | 16                      | 2                   | 0.76                   | 8.76             | 64                      | 200                | Non-UL                               |
| C51105       | 16                      | 3                   | 0.76                   | 9.14             | 89                      | 200                | Non-UL                               |
| C51110       | 16                      | 4                   | 0.76                   | 10.16            | 112                     | 200                | Non-UL                               |
| C51115       | 16                      | 5                   | 0.76                   | 11.05            | 141                     | 200                | Non-UL                               |
| C51120       | 16                      | 7                   | 0.76                   | 12.07            | 193                     | 200                | Non-UL                               |
| C51130       | 16                      | 12                  | 0.76                   | 15.88            | 327                     | 200                | Non-UL                               |
| C51140       | 16                      | 19                  | 0.76                   | 18.67            | 521                     | 200                | Non-UL                               |
| C51150       | 16                      | 37                  | 0.76                   | 25.27            | 982                     | 200                | Non-UL                               |