# SRGT 200°C 600V UL 3568

CCC – Critical Circuit Cable, Felxible Silicone Rubber Glass Braid – FEP Jacket, Temp Rating 200°C

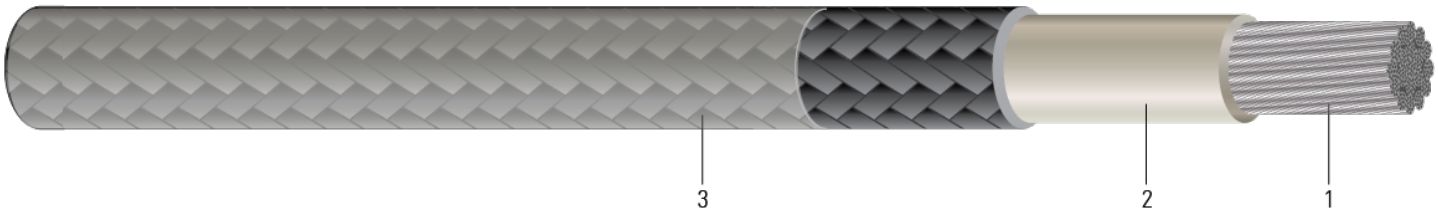



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Stranded tinned, annealed copper per ASTM B33
2. **Insulation:** Silicone Rubber
3. **Jacket:** A fiberglass braid jacket is applied over the insulation, then covered with an extruded FEP fluoropolymer jacket

## APPLICATIONS AND FEATURES:

Used in environments where wire will come into contact with chemicals, oils or gas and where circuit integrity is required when exposed to flame, such as MOVs at refineries and petrochemical plants. Also used for critical circuits in steel mills, aluminum plants, paper mills and power generating facilities.

FEP Jacket provides excellent oil and chemical resistance, low coefficient of friction, improved moisture resistance and excellent electrical properties, flexible, and fungus resistant. Colors available upon request.

Product requires NPC conductor on 10 AWG and smaller in order to pass the Modified Mil-W-25038 Circuit Integrity Test.

## SPECIFICATIONS:

- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- UL 44 VW-1 Vertical flame test on individual conductors
- UL 1277 Vertical Cable Tray Flame Tests (70,000 BTU/Hr)
- UL AWM Appliance wire approvals as listed in Table 1
- CSA AWM I A/B 600 FT1 FT2
- ICEA T-29-520 Flame Test (210,000 BTU/Hr)
- IEEE 383 Flame Test (70,000 btu)
- RoHS-3 Complies with European Directive 2015/863



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## Table 1 – Weights and Measurements

| Stock Number | Cond. Size | Cond. Strands | Insul. Thickness | Braid | Jacket Thickness | Approx. OD | Approx. Weight | Temp. Rating | Standard (UL or other) |
|---|---|---|---|---|---|---|---|---|---|
| | AWG/Kcmil | strand | mil | mil | mil | inch | lb/1000ft | °C | Style/Type |
| C0T180 | 18 | 7 | 30 | 8 | 10 | 0.140 | 15 | 200 | 3568 |
| C0T160 | 16 | 7 | 30 | 8 | 10 | 0.150 | 20 | 200 | 3568 |
| C0T140 | 14 | 7 | 30 | 8 | 10 | 0.165 | 30 | 200 | 3568 |
| C0T120 | 12 | 19 | 30 | 8 | 10 | 0.190 | 40 | 200 | 3568 |
| C0T060 | 6 | 84 | 60 | 8 | 12 | 0.225 | 115 | 200 | 3568 |
| C0T100 | 10 | 19 | 45 | 8 | 10 | 0.245 | 60 | 200 | 3568 |
| C0T080 | 8 | 54 | 60 | 8 | 12 | 0.310 | 95 | 200 | 3568 |
| C0T040 | 4 | 133 | 60 | 8 | 12 | 0.410 | 165 | 200 | 3568 |
| C0T020 | 2 | 133 | 60 | 8 | 12 | 0.450 | 245 | 200 | 3568 |
| C0T010 | 1 | 259 | 80 | 8 | 17 | 0.585 | 375 | 200 | 3568 |
| C0T1T0 | 1/0 | 259 | 80 | 8 | 17 | 0.610 | 385 | 200 | NA |
| C0T2T0 | 2/0 | 259 | 80 | 8 | 17 | 0.645 | 505 | 200 | NA |
| C0T3T0 | 3/0 | 259 | 80 | 8 | 17 | 0.705 | 620 | 200 | NA |
| C0T4T0 | 4/0 | 259 | 80 | 8 | 20 | 0.805 | 810 | 200 | NA |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
Dimensions and weights for other cable configurations are available upon request.
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 | Cond. Strands | Insul. Thickness | Braid | Jacket Thickness | Approx. OD | Approx. Weight | Temp. Rating | Standard (UL or other) |
|---|---|---|---|---|---|---|---|---|---|
| | AWG/Kcmil | strand | mm | mm | mm | mm | kg/km | °C | Style/Type |
| C0T180 | 18 | 7 | 0.76 | 0.20 | 0.25 | 3.56 | 22 | 200 | 3568 |
| C0T160 | 16 | 7 | 0.76 | 0.20 | 0.25 | 3.81 | 30 | 200 | 3568 |
| C0T140 | 14 | 7 | 0.76 | 0.20 | 0.25 | 4.19 | 45 | 200 | 3568 |
| C0T120 | 12 | 19 | 0.76 | 0.20 | 0.25 | 4.83 | 60 | 200 | 3568 |
| C0T060 | 6 | 84 | 1.52 | 0.20 | 0.30 | 5.72 | 171 | 200 | 3568 |
| C0T100 | 10 | 19 | 1.14 | 0.20 | 0.25 | 6.22 | 89 | 200 | 3568 |
| C0T080 | 8 | 54 | 1.52 | 0.20 | 0.30 | 7.87 | 141 | 200 | 3568 |
| C0T040 | 4 | 133 | 1.52 | 0.20 | 0.30 | 10.41 | 246 | 200 | 3568 |
| C0T020 | 2 | 133 | 1.52 | 0.20 | 0.30 | 11.43 | 365 | 200 | 3568 |
| C0T010 | 1 | 259 | 2.03 | 0.20 | 0.43 | 14.86 | 558 | 200 | 3568 |
| C0T1T0 | 1/0 | 259 | 2.03 | 0.20 | 0.43 | 15.49 | 573 | 200 | NA |
| C0T2T0 | 2/0 | 259 | 2.03 | 0.20 | 0.43 | 16.38 | 752 | 200 | NA |
| C0T3T0 | 3/0 | 259 | 2.03 | 0.20 | 0.43 | 17.91 | 923 | 200 | NA |
| C0T4T0 | 4/0 | 259 | 2.03 | 0.20 | 0.51 | 20.45 | 1205 | 200 | NA |


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