# CU 600V PVC-Nylon Insulation PVC Jacket TFFN. CT Rated - Sunlight Resistant - For Direct Burial - Silicone Free

Type TC Control Cable 600 Volt Copper Conductors, Polyvinyl Chloride (PVC) with nylon layer Insulation TFFN Polyvinyl Chloride (PVC) Jacket Control Cable. CT Rated - Sunlight Resistant - For Direct Burial - Silicone Free.

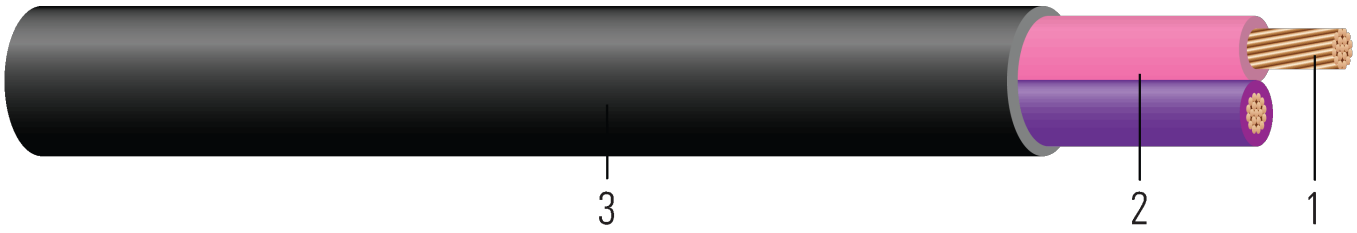



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Flexible Stranded Rope-Lay Class K Copper per ASTM B174
2. **Insulation:** Polyvinyl Chloride (PVC) with nylon layer. Type TFFN
3. **Overall Jacket:** Polyvinyl Chloride (PVC) Jacket

## APPLICATIONS AND FEATURES:

Southwire's 600 Volt Type TC control cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 75°C in wet locations and 90°C in dry locations, 105°C for emergency overload, and 150°C for short circuit conditions. For uses in Class I, II, and III, Division 2 hazardous locations per NEC Article 501 and 502. Sunlight Resistant - For Direct Burial - Silicone Free.

## SPECIFICATIONS:

- ASTM B174 Standard Specification for Bunch-Stranded Copper
- UL 66 Fixture Wire Type TFFN (for sizes 18 and 16 AWG)
- UL 1277 Electrical Power and Control Tray Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy

## SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE{R} (UL) E75755 MASTER-DESIGN 16 AWG 2 CDRS TYPE TC 90{D}C DRY / 75{D}C WET CDRS 90{D}C JACKET SUNLIGHT RESISTANT DIRECT BURIAL 600 VOLTS


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## Table 1 – Physical and Electrical Data

| Stock Number | Cond. Size | Cond. Number | Cond. Strands | Diameter Over Cond. | Insulation Color | Insul. Thickness | Jacket Thickness | Approx. OD | Copper Weight | Approx. Weight | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Rectance | Min Bending Radius | Allowable Ampacity 75°C | Allowab Ampaci 90°C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | No. | strands | inch | | mil | mil | inch | lb / 1000ft | lb / 1000ft | Ω /1000ft | Ω /1000ft | Ω/1000ft | inch | Amp | Amp |
| 16 AWG | | | | | | | | | | | | | | | | |
| 457380 | 16 | 2 | 26 | 0.059 | PE,PK | 15 | 45 | 0.292 | 16 | 43 | 4.181 | 5.189 | 0.033 | 1.2 | - | 18 |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
***** Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.
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.


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