



CU 600V PVC Insulation PVC Jacket Mini Split Type THWN

CU 600V PVC Insulation PVC Jacket Mini Split Type THWN Rated at 75°C Wet 90°C Dry

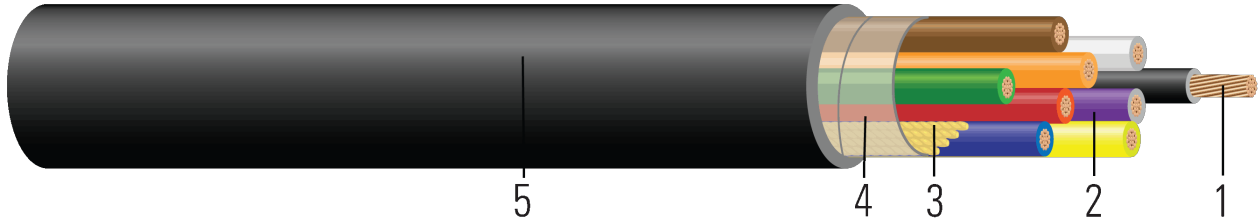


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Solid or stranded bare copper per ASTM B3 or B8
2. **Insulation:** Polyvinyl Chloride PVC with Nylon sheath
3. **Filler:** Polypropylene filler
4. **Binder:** Polyester flat thread binder tape
5. **Overall Jacket:** Polyvinyl Chloride (PVC) Jacket

APPLICATIONS AND FEATURES:

Southwire's 600 Volt Type TC-ER 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. Constructions with 3 or more conductors are listed for exposed runs (TC-ER) per NEC 336.10. Sunlight Resistant - For Direct Burial - Silicone Free - VW-1 Rated.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wire and Cables (sizes 14 AWG to 1000 kcmil)
- UL 1277 Electrical Power and Control Tray Cables
- RoHS-3 Complies with European Directive 2015/863

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE{R} E75755 {UL} XX AWG (X.XX{mm²}) CU 7 CDRS TYPE TC-ER-JP THHN OR THWN CDRS 90{D}C JACKET SUNLIGHT RESISTANT DIRECT BURIAL 600 VOLTS {NOM}-ANCE





Table 1 – Physical and Electrical Data

| Stock Number | Cond. Size | Cond. Number | Cond. Strands | Diameter Over Cond. | Color | Insul. Thickness | Ground | Jacket Thickness | Approx. OD | Copper Weight | Approx. Weight | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance | Min Bending Radius | Allowable Ampacity 75°C | Allow. Amp 90°C |
|--------------|------------|--------------|---------------|---------------------|----------------|------------------|-----------|------------------|------------|---------------|----------------|----------------------|----------------------|---------------------|--------------------|-------------------------|-----------------|
| | AWG | No. | strands | inch | | mil | No. x AWG | mil | inch | lb / 1000ft | lb / 1000ft | Ω /1000ft | Ω /1000ft | Ω/1000ft | inch | Amp | Am |
| 14 AWG | | | | | | | | | | | | | | | | | |
| 595407◇ | 14 | 3 | 1 | 0.064 | BK, RD, WE, GN | 20 | 1 x 14 | 45 | 0.348 | 50 | 89 | 2.631 | 3.170 | 0.058 | 1.4 | 20 | 25 |

All dimensions are nominal and subject to normal manufacturing tolerances
 ◇ Cable marked with this symbol is a standard stock item

