



## 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

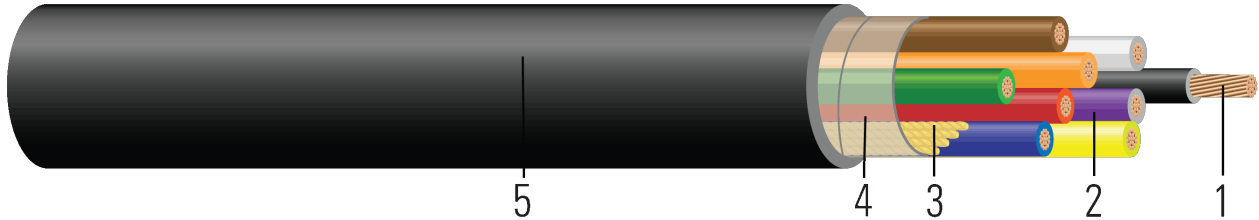


Image not to scale. See Table 1 for dimensions.

### 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{mm<sup>2</sup>}) 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	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	Allowable Ampacity 90°C
	AWG	No.	strands		mil	No. x AWG	mil	inch	lb / 1000ft	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch	Amp	Amp
<b>16 AWG</b>																
585835◇	16	3	26	BK, RD, WE, GN	20	1 x 16	45	0.343	32	72	4.487	5.406	0.033	1.4	-	18
<b>14 AWG</b>																
595407◇	14	3	1	BK, RD, WE, GN	20	1 x 14	45	0.348	50	89	2.631	3.170	0.058	1.4	20	25
582257◇	14	4	7	BK, RD, WE, GN	20	x	45	0.363	51	94	2.631	3.170	0.058	1.5	16	20
408633◇	14	7	7	BK, RD, BE, OE, YW, BN, RD/BK	20	x	45	0.413	90	146	2.631	3.170	0.058	1.7	14	17

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

