CU 600V PVC Insulation PVC Jacket Mini Split Type TC-ER-JP

CU 600V PVC Insulation PVC Jacket Mini Split Type THHN/THWN Rated at 75ºC Wet 90ºC Dry

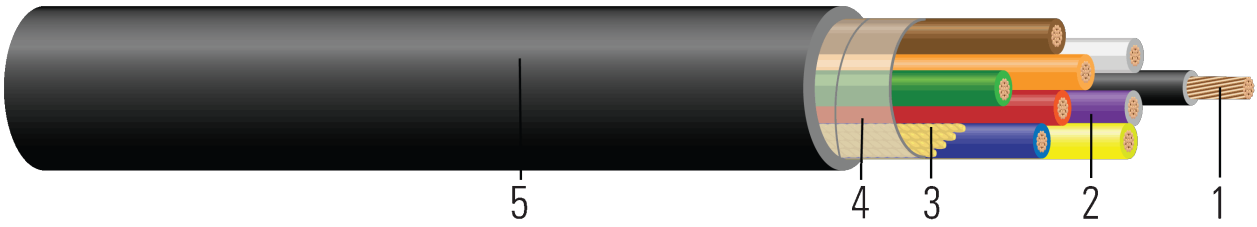

Image not to scale. See Table 1 for dimensions.

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-JP 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

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Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Insulation Color	Insul. Thickness	Ground	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	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
16 AWG																
585835◊	16	4	26	BK, RD, WE, GN	20	1 x 16	45	0.343	32	72	4.487	5.406	0.033	1.4	-	18
14 AWG																
138543◊	14	3	7	BK, RD, GN	20	1 x 14	45	0.337	38	75	2.631	3.170	0.058	1.3	20	25
595407◊	14	4	1	BK, RD, WE, GN	20	1 x 14	45	0.348	50	89	2.631	3.170	0.058	1.4	16	20
582257◊	14	4	7	BK, RD, WE, GN	20	1 x 14	45	0.351	51	93	2.631	3.170	0.058	1.4	16	20
408633◊	14	7	7	BK, RD, BE, OE, YW, BN, RD/BK	20	1 x 14	45	0.429	90	151	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
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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