

CU 600V XLPE Insulation Thermoplastic CPE-TP Jacket XHHW-2 Table 2 Color Code. CT Rated - Sunlight Resistant - For Direct Burial -Silicone Free

Type TC-ER Control Cable 600Volt Copper Conductors, Cross Linked Polyethylene (XLPE) Insulation XHHW-2 Thermoplastic Chlorinated Polyethylene (CPE-TP) Jacket with 1 Insulated Green CU Ground, Control Cable Conductor Identification Method 1 Table 2

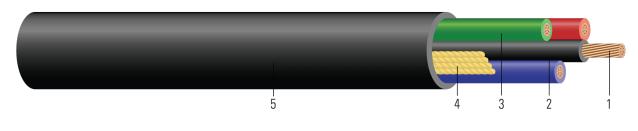


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- 1. Conductor: 7 strands class B compressed tinned copper per ASTM B33 and ASTM B8
- 2. Insulation: Cross Linked Polyethylene (XLPE) XHHW-2, 30 Mils thick for all cable sizes
- 3. Grounding Conductor: Class B compressed stranded copper with green insulation
- 4. Filler: Polypropylene filler on cables with 5 or less conductors
- 5. Overall Jacket: Thermoplastic Chlorinated Polyethylene (CPE-TP)

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 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°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.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1277 Electrical Power and Control Tray Cables
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- ICEA S-58-679 Control Cable Conductor Identification Method 1 Table 2
- ICEA S-73-532 Standard for Control, Thermocouple Extension and Instrumentation Cables
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test

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SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE® {UL} XX AWG 3/C TYPE TC-ER XHHW-2 CDRS GW 1 X XX AWG CU GREEN INSULATED 90°C CPE JACKET SUN RES 0IL RES II FT4/IEEE1202 600 VOLTS

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Table 1 – Physical and Electrical Data

Cond. Size	Cond. Number	Cond. Strands	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	Jacket Color
AWG	No.	strands	mil	No. x AWG	mil	inch	lb / 1000ft	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch	Amp	Amp	
	12 AWG														
12	4	7	30	1 x 12	45	0.492	101	164	1.662	2.002	0.054	2.0	20	24	Black

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.

* Number of conductors does not include green ground

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.