Multi-Conductor CU 600 V FR-XLPE Shielded Drain Wire Thermoset CPE-TS Jacket Control Cable Color Method 1 Table 1

Control Cable 600 Volt Copper Conductors, Flame Retardant Cross Linked Polyethylene (FR-XLPE) Insulation Shielded Drain Wire Thermoset Chlorinated Polyethylene Chloride (CPE-TS) Jacket, Control Cable Conductor Identification Method 1 Table 1. Silicone Free

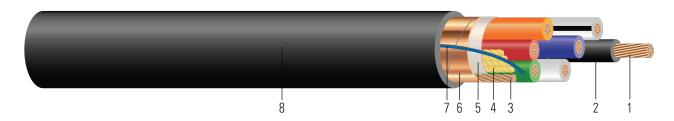


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor: 7 strands class B compressed bare copper per ASTM B3 and ASTM B8. Tinned copper available upon request.
- 2. **Insulation**: Cross Linked Polyethylene (XLPE) XHHW-2, 30 Mils thick for all cable sizes
- 3. **DrainWire:** Bare copper drain wire. Tinned copper drain wire available upon request.
- 4. **Filler:** Polypropylene filler on cables with 5 or less conductors
- 5. **Binder:** Polyester flat thread binder tape applied for cables with more than 5 conductors
- 6. Shielding: 5 mils tape shield
- 7. **Rip Cord:** Rip cord for ease of jacket removal
- 8. **Overall Jacket:** Thermoset Chlorinated Polyethylene Chloride (CPE-TS)

APPLICATIONS AND FEATURES:

Southwire's 600 Volt 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. UL rated constructions can be used in Class I, II, and III, Division 2 hazardous locations per NEC Article 501 and 502. UL rated constructions with 3 or more conductors are listed for exposed runs (TC-ER) per NEC 336.10.

SPECIFICATIONS:

- ASTM B3 Standard Specification for 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 1
- 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 Vertical Tray Flame Test (70,000 Btu/hr) and ICEA T-29-520 (210,000 Btu/hr)
- VW-1 (Vertical-Wire) Flame Test









SAMPLE PRINT LEGEND:

UL Listed

SOUTHWIRE E75755 {UL} XX AWG X/C FR-XLPE CDRS SHIELDED 90C CPE JACKET SUNLIGHT RESISTANT DIRECT BURIAL 600V {MM/DD/YYYY} {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

Non UL Listed

SOUTHWIRE XX AWG X/C FR-XLPE CDRS SHIELDED 90C CPE JACKET SUNLIGHT RESISTANT DIRECT BURIAL 600V {MM/DD/YYYY} {SEQUENTIAL FOOTAGE MARKS} SEQ FEET<









SPEC 85028 Stock #: TBA

Table 1 – Physical and Electrical Data

Cond. Size	Cond. Number	Diameter Over Cond.	Insul. Thickness	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 90°C	Min Bending Radius	Allowable Ampacity At 60°C *	Allowable Ampacity 75°C *	Allowable Ampacity 90°C *
AWG	No.	inch	mil	mil	inch	lb /1000ft	lb /1000ft	Ω /1000ft	Ω /1000ft	inch	Amp	Amp	Amp
12 AWG													
12	6	0.087	30	45	0.532	122	214	1.660	2.075	6.38	16	20	20

All dimensions are nominal and subject to normal manufacturing tolerances







[♦] Cable marked with this symbol is a standard stock item

^{*} Ampacities are based on Table 310.15 (B)(16) of the NEC, 2017 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)

[^] UL Listed part number

[#] Tinned Copper