# Multi-Conductor CU 600 V FR-XLPE Shielded Thermoset CPE-TS Jacket Control Cable Color Method 1 Table 2

Control Cable 600 Volt Copper Conductors, Flame Retardant Cross Linked Polyethylene (FR-XLPE) Insulation Shielded Thermoset Chlorinated Polyethylene (CPE-TS) Jacket, Control Cable Conductor Identification Method 1 Table 2. Silicone Free



Image not to scale. See Table 1 for dimensions.

#### **CONSTRUCTION:**

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







**SPEC 85050** Stock #: TBA

#### **SAMPLE PRINT LEGEND:**

# **UL Listed**

SOUTHWIRE {UL} XX AWG CU X/C FR-XLPE XHHW-2 TYPE TC CDRS 90C CPE-TS JKT SHIELDED 600V SUN RES MM/YYYY {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

# Non UL Listed

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







**SPEC 85050** 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
14 AWG													
14	5	0.070	30	45	0.440	64	132	2.630	3.288	5.3	14	15	15

All dimensions are nominal and subject to normal manufacturing tolerances





<sup>♦</sup> Cable marked with this symbol is a standard stock item

<sup>\*</sup> 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)

<sup>^</sup> UL Listed part number