



600V Substation Wire - 14 AWG 25/C Copper FR-XLPE E2 SOLONON® LSZH-TP Jacket

Specifications

* ASTM B3: Soft or Annealed Copper Wire

* ASTM B8: Concentric-Lay-Stranded Copper Conductors

* ICEA S-58-679: Control Cable Conductor Identification Method 1

Table 2

* ICEA S-73-532: 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



Cable image is for reference only and does not depict actual cable construction

Construction

- 1) Conductor: 7 strands class B compressed bare copper per ASTM B3 and B8
- 2) Insulation: Flame Retardant Cross Linked Polyethylene (FR-XLPE)
- 3) Binder: Polypropylene binder tape and/or polyester binder string
- 4) Overall Jacket: Thermoplastic SOLONON® Low Smoke Zero Halogen (LSZH-TP)

Application 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.

Print Legend

{SQFTG} SOUTHWIRE® 14 AWG CU 25/C FR-XLPE CDRS 90°C WET OR DRY LSZH-TP JKT 600V SUN RES

Stock Code	Conductor Size	Conductor Count	Insulation Thickness	Jacket Thickness	Approx Overall OD	Approx Overall Weight	Minimum Bending Radius	Ampacity 75/90°C
-	AWG	num	mil	mil	inch	lb/1000ft	inch	amp
457876	14	25	30	80	1.004	636	5.0	9/11

^{*} Sample print legend, actual may vary.

Drn/Chk By:	JT	Req By:	YR	9/3/2025
Ticket #:	96637	Drw #:	JT19867	Rev: 1

^{*} 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. Ampacities have been adjusted for stock numbers containing more than Three Current-Carrying Conductors.

^{*} Dimensions are nominal and subject to normal manufacturing tolerances.