



# Southwire CU 600/1000V PVC-Nylon Insulation **TPE Gray Jacket.**

#### Specifications

\* ASTM B172: Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors

\* ASTM B174: Standard Specification for Bunch-Stranded Copper

\* UL 1277: TC

\* UL 2277: Type WTTC

\* CSA C22.2 No. 210: Appliance wiring material products I/II A/B

\* CSA C22.2 No. 239: Control 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

## Applications and Features

Southwire's control tray cables 600/1000 Volt conform to NFPA 79 and are suited for use in wet and dry areas, conduits, ducts, troughs, trays, 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, 130°C for emergency overload, and 150°C for short circuit conditions. For uses in Class I, II, Division 2 hazardous locations per NEC® Article 501 and 502. Cable is rated for -40°C cold impact.



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

#### Construction

- 1) Conductor: Class K, Flexible stranded bare annealed copper per ASTM B3, B172, and B174
- 2) Insulation: Polyvinyl Chloride (PVC) with nylon layer
- Ground:One Green Ground with Yellow Stripe 3)
- Jacket: Sunlight Resistant Gray Thermoplastic Elastomer TPE

NOTE: Two conductor cables contain no green/yellow ground.

## Print Legend

{SQFTG} SOUTHWIRE{R} 12 AWG (3.31{mm2}) 2/C PVC/NYLON-TPE TYPE TC E75755 {UL} 600V 90{D}C DRY/75{D}C WET OR WTTC 1000V OIL RES I/II SUNLIGHT RESISTANT -- 156205 CSA TC/CIC 90{D}C DRY/75{D}C WET 600V -40{D}C FT1 FT4 OR AWM I/II A/B 105{D}C W75 1000V OIL RES -40{D}C FT1 FT4

Stock Code	Size	Conductor Count	Insulation Thickness	Jacket Thickness	Overall OD	Overall Weight	Min Bend Radius	Ampacity † 75/90°C
-	AWG	-	mils	mils	inches	lbs. /1,000'	inches	amps
16503009	12	2	20	50	0.359	80	1.43	25/30

\* Dimensions are nominal and subject to normal manufacturing tolerances Sample print legend, actual may vary.

† 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

Cust. Spec Approval:

Drn/Chk By:	UP	Req By:	MW	8/7/2023
Ticket #:	56448	Drw #:	UP11882	Rev: 1

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