Southwire®

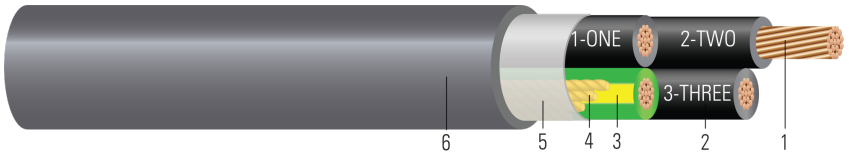
6-259 3/C CU AWM/PVC TYPE TC 600V GRAY

Specifications

* ASTM B3: Standard Specification for Soft or Annealed Copper Wire
* ASTM B172: Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members, for Electrical Conductors
* UL 1277: Electrical Power and Control Tray Cables
* UL 2277: Flexible Motor Supply Cable and Wind Turbine Tray Cable
* UL 1685: Vertical-Tray Fire Propagation and Smoke Release Test
* ICEA S-58-679: Control Cable Conductor Identification Method 4
* ICEA S-95-658: (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
* CSA 22.2 No 210: Appliance wiring material products
* CSA C22.2 No. 230: Tray Cables
* CSA 22.2 No 239: Control and instrumentation cables
* IEEE 1202: FT4 Flame Test (70,000) BTU/hr Vertical Tray Test

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 75°C in wet locations and 90°C in dry locations, 105°C for emergency overload, and 150°C for short circuit conditions.



Construction

1) Conductor: Class K ropelay bare copper per ASTM B3 and ASTM B172
2) Insulation: Polyvinyl Chloride (PVC) with nylon layer Types THHN
3) Ground: Class K ropelay bare copper per ASTM B3 and ASTM B173 with green/yellow insulation
4) Filler: Polypropylene filler as needed
5) Binder: Polyester flat thread binder tape applied as needed
6) Overall Jacket: Gray Polyvinyl Chloride (PVC) Jacket

Print Legend

SOUTHWIRE{R} 6 AWG (13.3{MM2}) 4/C PVC/NYLON-TPE TYPE TC-ER 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 SR OIL RES -40{D}C FT1 FT4 OR AWM I/II A/B 105{D}C W75 1000V -40{D}C FT1 FT4 {SEQUENTIAL METER MARKS} SEQ METER

Stock Code	Conductor Size (Strands)	Conductor Diam	Insulation Thickness	Ground	Jacket Thickness	Approx Overall OD	Approx Weight	Min Bend Radius	Max Pull Tension	Ampacity 75°C/90°C
	num. x AWG	inches	mils	num. x AWG	mils	inches	lbs/1000'	inches	lbs	amps
165052	3 x 6 (259)	0.198	39	1 x 6	62	0.791	525	3.2	672	65/75

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

Table 310.16 NEC 2020 Ampacities of insulated conductors not more than 3 current carrying in raceway, cable or earth (direct buried)

Cust. Spec Approval: _____

Drn/Chk By:	J.T./E.A	Req By:	T.P.	6/29/2021
Ticket #:	27104	Drawing #:	JT3362	Rev: 2