

## TELCOFLEX® Cellular Power Cable – Low Inductance

TelcoFlex® 600 Volt Tray Cable Copper Conductors, THHN, THWN conductors rated 75°C Wet and 90°C Dry. Helically Applied Copper Shield and PVC Jacket for Low Inductance Between Conductors. Uninsulated, Flexible Tinned Copper Ground. Overall Sunlight and Oil Resistant PVC Jacket.

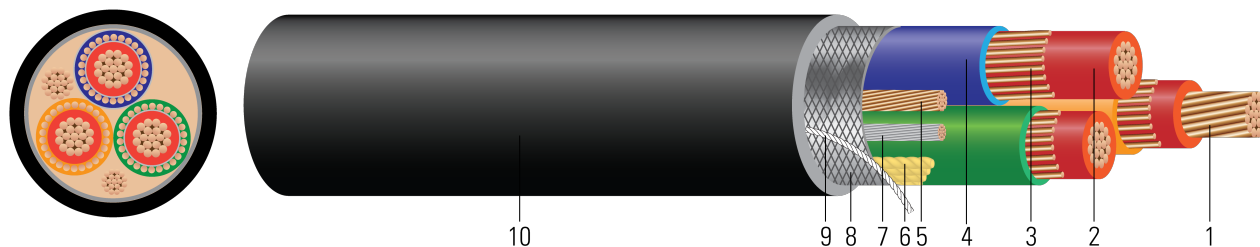


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Combination Unilay Bare Copper per ASTM B3, B787
2. **Insulation:** Red Polyvinyl Chloride (PVC) Insulated Conductors with Nylon Sheath
3. **Conductor Shield:** Helically Wrapped Soft Drawn Bare Copper
4. **Conductor Jacket:** Colored PVC - Orange, Green, Blue
5. **Ground:** Soft Drawn Bare Copper
6. **Filler:** Polypropylene as needed to make round
7. **Drain Wire:** Tinned #12 AWG
8. **Core Shield:** 1.7 mils aluminum tape plus a tinned braid.
9. **Rip Cord:** For ease of jacket removal
10. **Overall Jacket:** Black sunlight resistant (PVC) Jacket

### APPLICATIONS AND FEATURES:

Southwire's TelcoFlex® 600 Volt tray 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, 130°C for emergency overload, and 150°C for short circuit conditions. Assembled with fillers as needed to make round.

### SPECIFICATIONS:

- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B787 19 Wire Combination Unilay-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wires and Cables
- UL 1277 Electrical Power and Control Tray Cables
- UL 2882 Outline of Investigation for Radio Head Cable
- 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

### SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE{R} E75755 MASTER-DESIGN {UL} 3/C 4 AWG (21.2{mm<sup>2</sup>}) SHIELDED + 1/C 8 AWG (8.37{mm<sup>2</sup>})  
GNDING COND THHN/THWN 90{D}C DRY OR 75{D}C WET TYPE TC-ER 600V FT4 SUN RES DIR BUR



Southwire

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**Table 1 – Physical and Electrical Data**

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Ground	Dia. Over Inner Jacket	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 90°C	Min Bending Radius	Allowable Ampacity 75°C *	Allowable Ampacity 90°C *
	AWG	No.	strands	inch	mil	No. x AWG	inch	mil	inch	lb /1000ft	lb /1000ft	Ω /1000ft	Ω /1000ft	inch	Amp	Amp
673721	4	3	19	0.221	46	1 x 8	0.447	80	1.132	916	1257	0.258	0.323	14	85	95

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

