Stock #: 673716 SPEC 41053

TELCOFLEX® Cellular Power Cable

600 Volt Tray Cable (TC-ER) Rated for Exposed Run. Flexible Tinned Copper Conductors. THHN, THWN Conductors rated 75°C Wet and 90°C Dry. Uninsulated, Flexible Tinned Copper Ground Wire and Drain Wire. Overall Aluminum Foil Shield and Tinned Copper Braid Shield. Overall TPE or PVC Jacket. Rated FT4 Flame Resistant, Sunlight Resistant and -40°C.



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. Conductor: Class K Stranded Tinned Copper per ASTM B33, B172 & B174. #8 and #6 AWG 19 Strand per ASTM B787

2. Insulation: Polyvinyl Chloride (PVC) Insulated Conductors with Nylon Sheath.

Color: 2 Conductor Construction - BLK, RED

Color: 6 Conductor Construction - BLK-BLU/RED-BLU/BLK-ORG/RED-ORG/BLK-GRN/RED-GRN

3. **Ground:** Tinned Copper

4. **Drain Wire:** Tinned Copper

Phase Size: 12awg. Drain Size/Strands: 16awg/7 Phase Size: 10awg. Drain Size/Strands: 14awg/7 Phase Size: 8 and 6 awg. Drain Size/Strands: 12awg/7

5. Filler: Polypropylene as needed to make round

6. **Tape Shield:** Aluminum/Poly/Aluminum (3-Layer) applied Helically over cabled assembly

7. **Braid Shield:** 34 AWG Tinned Copper with 85% coverage applied over Tape Shield

8. **Overall Jacket:** Black sunlight resistant

2 Conductor: Thermoplastic Elastomer (TPE) Jacket 6 Conductor: Polyvinyl Chloride (PVC) Jacket

APPLICATIONS AND FEATURES:

Southwire Tray Cable is suitable for use in industrial power or control circuits. Primary installations include cable trays, raceways and outdoor locations where supported by a messenger. These constructions are listed for exposed runs (TC-ER) per NEC 336.10. Type TC in sizes 8 AWG and larger is listed for direct burial and for use in Class 1, Division 2 hazardous locations and Class 1 Control circuits. This cable may be used at temperatures not to exceed 75°C in wet locations and 90°C in dry locations.

SPECIFICATIONS:

- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- ASTM B174 Standard Specification for Bunch-Stranded Copper
- ASTM B787 19 Wire Combination Unilay-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wires and Cables







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- UL 1277 Electrical Power and Control Tray Cables
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- 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

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE{R} E75755 MASTER-DESIGN {UL} X/C X AWG (XX.X{mm2}) XXX STRAND CLASS K + 1/C X AWG (X.XX{mm2}) GDING COND THHN/THWN 90{D}C DRY OR 75{D}C WET TYPE TC-ER 600V FT4 SUN RES







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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Ground Size	Ground Strands	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/ Kcmil	No.	No.	inch	mil	inch	AWG	No.	mil	inch	lb/1000ft
673716	6	6	19	0.179	35	0.239	8	19	80	0.935	840

All dimensions are nominal and subject to normal manufacturing tolerances

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Cond. Number	DC Resistance @ 25°C	AC Resistance @ 90°C	Min Bending Radius	Allowable Ampacity At 75°C†	Allowable Ampacity At 90°C†
	AWG/ Kcmil	No.	Ω/1000ft	Ω/1000ft	inch	Amp	Amp
673716	6	6	0.411	0.514	11	52	60





[♦] Cable marked with this symbol is a standard stock item

^{1.} Only 2/C cables are rated for direct burial.