Southwire Stock # CTD-0210T-1A-01 | SPEC 41053

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 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® E75755 {UL} X/C X AWG (XX.X{mm2}) XXX STRAND CLASS K + 1/C X AWG (X.XX{mm2}) GDING COND THHN/THWN 90°C DRY OR 75°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	Ground	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	No.	inch	mil	No. x AWG	inch	lb/1000ft
CTD-0210T-1A-01	10	2	26	0.125	25	1 x 10	0.364	88

All dimensions are nominal and subject to normal manufacturing tolerances

♦ Cable marked with this symbol is a standard stock item

Note

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

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Table 2 – Electrical and Engineering Data

Cond. Size	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance	Max Pull Tension	Min Bending Radius	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	lb	inch	Amp	Amp
10	1.081	1.302	0.050	166	1.5	35	40

^{*} Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.



