



TELCOFLEX® Small Cell 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.

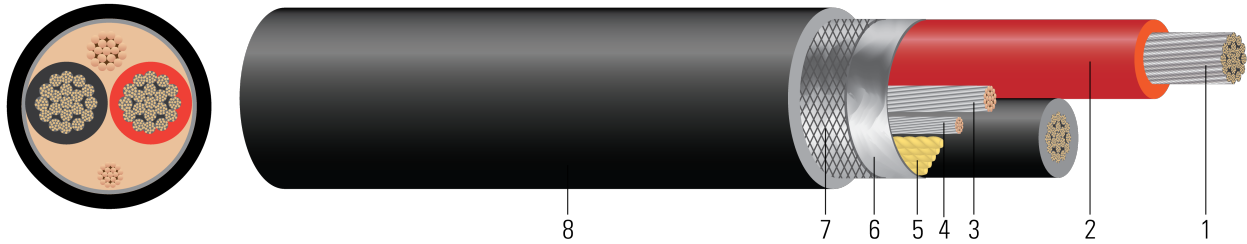


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Class K Stranded Tinned Copper per ASTM B33, B172 & B174.
- Insulation:** Polyvinyl Chloride (PVC) Insulated Conductors with Nylon Sheath. Colors: Black, Red Color: 2 Conductor Construction - BLK, RED
- Ground:** Tinned Copper
- Drain Wire:** Tinned Copper
Phase Size: 12awg. Drain Size/Strands: 16awg/7
Phase Size: 10awg. Drain Size/Strands: 14awg/7
Phase Size: 8 awg. Drain Size/Strands: 12awg/7
- Filler:** Polypropylene as needed to make round
- Tape Shield:** Aluminum/Poly/Aluminum (3-Layer) applied Helically over cabled assembly
- Braid Shield:** 34 AWG Tinned Copper with 85% coverage applied over Tape Shield
- Overall Jacket:** Black sunlight resistant thermoplastic Elastomer (TPE) 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. 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
- UL 83 Thermoplastic Insulated Wires and Cables
- 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





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 |
| TBA | 12 | 2 | 65 | 0.094 | 20 | 1 x 12 | 0.282 | 54 |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

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 |
| 12 | 1.774 | 2.137 | 0.054 | 104 | 1.1 | 25 | 30 |

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

