



# Multi-Conductor Tinned CU Unshielded Signal Cable 1000V

Multi-Conductor Unshielded Signal cables 1000 Volt Single Conductor Tinned Copper, Ethylene Propylene Rubber (EPR) insulation Thermoset SOLONON® Low Smoke Zero Halogen (LSZH-TS) Jacket.

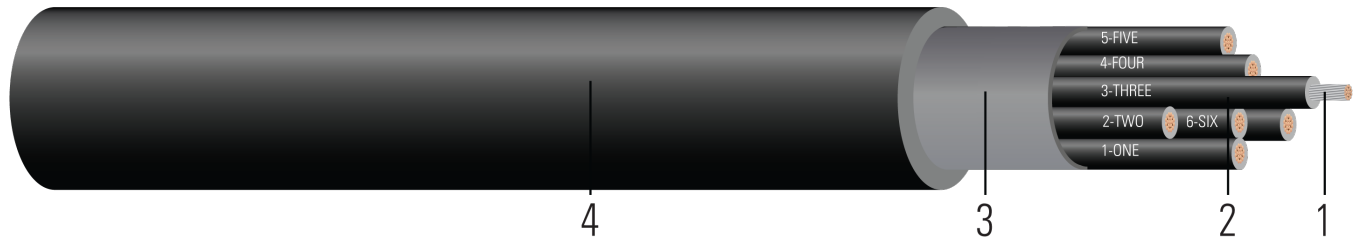


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

- Conductor:** Stranded tinned copper per ASTM B33 and ASTM B8
- Insulation:** Ethylene Propylene Rubber (EPR)
- Separator:** Silicone polymer
- Overall Jacket:** Black, Thermoset, SOLONON® Low Smoke Zero Halogen (LSZH-TS)

## APPLICATIONS AND FEATURES:

Southwire's Railroad Signal cables 1000 Volt conform to requirements in AREMA Signal Manual Part 10.3.16 and are suited for use in air or non-plenum ducts.

## SPECIFICATIONS:

- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ICEA S-73-532 Control, Thermocouple Extension, and Instrumentation Cables (applicable to sizes 20-9 AWG conductors)
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy

## SAMPLE PRINT LEGEND:

SOUTHWIRE XX AWG X/C EPR CDRS 90C SOLONON® JKT 1000V SUN. RES. {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

**Table 1 – Physical and Electrical Data**

| Stock Number | Cond. Size | Strand Class | Strand Count   | Cond. Cmil | Cond. Number | Diameter Over Conductor | Insul. Thickness | Jacket Thickness | Approx. OD | Approx. Weight | DC Resistance @ 25°C | AC Resistance @ 75°C | Max Pull Tension |
|--------------|------------|--------------|----------------|------------|--------------|-------------------------|------------------|------------------|------------|----------------|----------------------|----------------------|------------------|
|              | AWG/kcmil  |              | No. of Strands | cmil       | No.          | inch                    | mil              | mil              | inch       | lb/1000ft      | Ω/1000ft             | Ω/1000ft             | lb               |
| 457596       | 9          | C            | 19             | 13090      | 4            | 0.127                   | 80               | 95               | 0.928      | 466            | 0.825                | 0.994                | 418              |

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.

