

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.

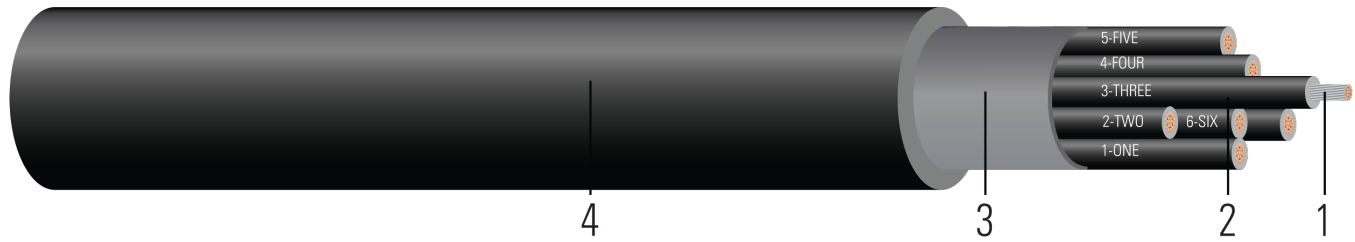


Image not to scale. See Table 1 for dimensions.

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 Standard for Control, Thermocouple Extension and Instrumentation Cables
- 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 |
| 457588 | 14 | C | 19 | 4110 | 3 | 0.074 | 80 | 80 | 0.708 | 222 | 2.631 | 3.170 | 98 |
| 457590 | 14 | C | 19 | 4110 | 5 | 0.074 | 80 | 80 | 0.837 | 317 | 2.631 | 3.170 | 164 |
| 457572 | 14 | C | 19 | 4110 | 7 | 0.074 | 80 | 95 | 0.942 | 433 | 2.631 | 3.170 | 230 |
| 457592 | 12 | C | 19 | 6530 | 3 | 0.090 | 80 | 80 | 0.742 | 258 | 1.662 | 2.002 | 156 |
| 457594 | 9 | C | 19 | 13090 | 3 | 0.127 | 80 | 80 | 0.821 | 350 | 0.825 | 0.994 | 314 |
| 457596 | 9 | C | 19 | 13090 | 4 | 0.127 | 80 | 95 | 0.928 | 466 | 0.825 | 0.994 | 418 |
| 457598 | 9 | C | 19 | 13090 | 8 | 0.127 | 80 | 95 | 1.193 | 808 | 0.825 | 0.994 | 837 |
| 457600 | 6 | C | 19 | 26240 | 3 | 0.179 | 95 | 95 | 1.035 | 593 | 0.411 | 0.495 | 629 |



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.