



# Tinned CU Unshielded Signal Cable 1000V

Unshielded Signal cables 1000 Volt Single Conductor 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:

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

## APPLICATIONS AND FEATURES:

Southwire's Unshielded 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 B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- 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 90C EPR XX MILS SOLONON® 1000V SUN. RES. YEAR {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

**Table 1 – Physical and Electrical Data**

| Stock Number | Cond. Size | Strand Class | Strand Count   | Cond. Cmil | 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       | inch                    | mil              | mil              | inch       | lb/1000ft      | Ω/1000ft             | Ω/1000ft             | lb               |
| 457604       | 14         | C            | 19             | 4110       | 0.074                   | 80               | 45               | 0.348      | 66             | 2.631                | 3.170                | 33               |
| 457603       | 9          | C            | 19             | 13090      | 0.127                   | 80               | 45               | 0.401      | 106            | 0.825                | 0.994                | 105              |
| 457602       | 6          | C            | 19             | 26240      | 0.179                   | 95               | 45               | 0.485      | 173            | 0.411                | 0.495                | 209              |
| 457606       | 4          | C            | 19             | 41740      | 0.230                   | 95               | 60               | 0.572      | 258            | 0.258                | 0.310                | 333              |
| 457610       | 2          | C            | 19             | 66360      | 0.296                   | 95               | 60               | 0.638      | 356            | 0.162                | 0.195                | 530              |
| 457613       | 1/0        | B            | 19             | 105600     | 0.362                   | 110              | 60               | 0.736      | 517            | 0.102                | 0.122                | 844              |
| 457616       | 2/0        | B            | 19             | 133100     | 0.405                   | 110              | 60               | 0.779      | 617            | 0.081                | 0.097                | 1064             |
| TBA          | 3/0        | B            | 19             | 167800     | 0.456                   | 110              | 80               | 0.852      | 741            | 0.064                | 0.078                | 1342             |
| 457619       | 4/0        | B            | 19             | 211600     | 0.512                   | 110              | 80               | 0.928      | 939            | 0.051                | 0.062                | 1692             |

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.

