# CU 600V NLEPR PE ARMORED TRANSIT VITAL SIGNAL CABLE

600 Volt 90°C AREMA PART 10.3.17. Underground Installations for Transit Systems



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Solid Uncoated Copper
2. **Insulation:** High Performance No Lead Ethylene Propylene Rubber NL-EPR
3. **Fillers:** Non-Wicking Flame Retardant Fillers with 8 mil Cushioning Tape
4. **Armor:** Helically Wrapped 7 mils Cu 194 Alloy Tape
5. **Rip Chord:** Rip Chord for Ease of Jacket Removal
6. **Jacket:** Polyethylene PE Jacket

## APPLICATIONS AND FEATURES:

Southwire 600V ECO Friendly No Lead EPR/PE Armored Underground Vital Signal Cable is suited for use in vital transit circuit safety systems where crush resistance, termite and rodent protection, and secure service life are a concern. Cables are designed for use in underground duct below grade or direct burial applications. May be installed in wet or dry locations. These cables are capable of operating continuously at a conductor temperature not in excess of 90°C for normal operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

- Mechanically Rugged
- High Performance No Lead EPR
- Excellent Moisture Resistance
- Resistant to Heat Aging and Environmental Hazards
- Premium Termite and Rodent Protection
- Cleanly Strips from Conductor
- Superior Deformation Resistance
- 40 Year Life
- RoHS/Proposition 65 Compliant
- Conductors Number Coded with One in Each layer Marked as “Tracer” for Quick Identification.

## SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B496 Compact Round Concentric-lay-standard copper
- 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
- AREMA Signal Manual Part 10.3.19 for EPR Type I Insulation



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- AREMA Signal Manual Part 10.3.21 for PE Type II Jacket

## Table 1 – Physical and Electrical Data

| Cond. Size | Strand Count | Cond. Number | Cond. Shape | Insul. Thickness | Jacket Thickness | Approx. OD | Approx. Weight |
|---|---|---|---|---|---|---|---|
| AWG/kcmil | No. of Strands | No. | | mil | mil | inch | lb/1000ft |
| 9 | 1 | 5 | TRANSIT VITAL SIGNAL CABLE | 80 | 110 | 1.010 | 574 |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item