# CU 600V NLEPR PVC DUPLEX TOWER AND CASE WIRE

600 Volt 90°C AREMA PART 10.3.15.

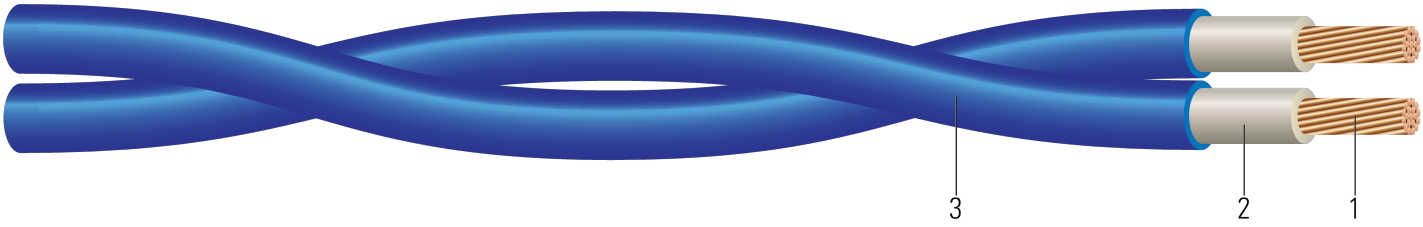



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and B8
2. **Insulation:** High Performance No-Lead Ethylene Propylene Rubber (NL-EPR)
3. **Jacket:** Blue Polyvinyl Chloride (PVC)

## APPLICATIONS AND FEATURES:

Southwire's 600V No-Lead EPR/PVC Duplex Blue Tower and Case Wire is suited for use as relay and associated signal apparatus wiring and for connector wire use in applications where flexibility, ease of termination, small diameters, long lasting performance, and stable service life are required. 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
- Cleanly strips from conductor
- FT2 Horizontal Flame Test
- Superior deformation resistance
- 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
- 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
- AREMA Signal Manual Part 10.3.21 for PE Type II Jacket

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## Table 1 – Physical and Electrical Data

| Cond. Size | Strand Class | Strand Count | Cond. Cmil | Cond. Number | Diameter Over Conductor | Insul. Thickness | Jacket Thickness | Jacket Color | Approx. OD | Approx. Weight | DC Resistance @ 25°C | AC Resistance @ 75°C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AWG/ kcmil | | No. of Strands | cmil | No. | inch | mil | mil | | inch | lb/1000ft | Ω/1000ft | Ω/1000ft |
| 14 | C | 19 | 4110 | 2 | 0.073 | 30 | 20 | BE | 0.347 | 47 | 2.631 | 3.265 |
| 10 | C | 19 | 10380 | 2 | 0.117 | 30 | 20 | BE | 0.434 | 94 | 1.04 | 1.291 |

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.


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