



CU 2000V NLEPR/CPE RW90 Traction Cable

2000 Volt Single Conductor Copper, No Lead Ethylene Propylene Rubber(NL-EPR) insulation RW90 Chlorinated Polyethylene (CPE) Jacket



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- 1. Conductor:** Compressed stranded bare or tinned copper per ASTM B3 or B33 and B8. Center strand embossed with "Southwire, Year, Plant" when required
- 2. Binder Tape:** Mylar Tape
- 3. Insulation:** No Lead Ethylene Propylene Rubber (EPR) Type RW90
- 4. Overall Jacket:** Thermoset Chlorinated Polyethylene (CPE) Jacket

APPLICATIONS AND FEATURES:

Southwire 2000V EPR/CPE Cable is suited for use in mass transit and general industry applications where flexibility, fire resistance, and low smoke generation are a concern. May be installed in wet or dry locations in cable trays or raceways. 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. Resistance to moisture and most oils, acids, and alkalis with an overall durable thermoset CPE jacket. Alternate constructions available upon request.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- CSA C22.2 No.230 Tray Cables - Rated TC-ER
- CSA SUN RES - for Sunlight Resistant rating
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- Oil Res I & Sun Res - AWG 8 & Larger
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test (1/0 and Larger)

SAMPLE PRINT LEGEND:

{SQMTR} SOUTHWIRE® LL90458 {CSA} XXX KCMIL CU TYPE RW90 -40°C XX MILS EPR XX MILS CPE FT4 PR I PR II SUN RES OIL RES TC-ER 2000V YEAR OF MANUFACTURE

Table 1 – Weights and Measurements

| | | | | | | | | | | | | | | |
|--------|-----|---|----|----|-------|----|-------|------|-----|------|-------|-------|-------|-----|
| 669881 | 750 | 1 | 61 | 90 | Black | 65 | 1.302 | 2658 | 6.5 | 6000 | 0.014 | 0.022 | 0.038 | 535 |
|--------|-----|---|----|----|-------|----|-------|------|-----|------|-------|-------|-------|-----|

All dimensions are nominal and subject to normal manufacturing tolerances





◊ Cable marked with this symbol is a standard stock item

¹Thicknesses reported as minimum average

* Bare copper

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.

Table 2 – Weights and Measurements (Metric)

| Stock Number | Cond. Size | Cond. Number | Strand | Insul. Thickness | Insulation Color | Jacket Thickness ¹ | Approx. OD | Approx. Weight | Min Bending Radius | Max Pull Tension | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance @ 60Hz | Allowable Ampacity In Raceway 90°C |
|--------------|---------------|--------------|--------|------------------|------------------|-------------------------------|------------|----------------|--------------------|------------------|----------------------|----------------------|----------------------------|------------------------------------|
| | AWG/ Kcmil | | No. | mm | | mm | mm | kg/km | mm | newton | Ω/km | Ω/km | Ω/km | Amp |
| 669881 | 750 | 1 | 61 | 2.29 | Black | 1.65 | 33.07 | 3956 | 165.10 | 26700 | 0.05 | 0.07 | 0.1247 | 535 |

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