

## 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



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**Table 1 – Weights and Measurements**

| Cond. Size | Strand | Insul. Thickness | Overall Jacket Thickness | 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.    | mil              | mil                      | inch       | lb/1000ft      | inch               | lb               | Ω/1000ft             | Ω/1000ft             | Ω/1000ft                   | Amp                                 |
| 500        | 37     | 75               | 65                       | 0.999      | 1697           | 3.9                | 4000             | 0.022                | 0.029                | 0.039                      | 430                                 |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

†Thicknesses reported as minimum average

\* Bare copper

**Table 2 – Weights and Measurements (Metric)**

| Cond. Size | Strand | Insul. Thickness | Jacket Thickness <sup>1</sup> | 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                                |
| 500        | 37     | 1.91             | 1.65                          | 25.37      | 2525           | 99.06              | 17800            | 0.07                 | 0.10                 | 0.1280                     | 430                                |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

†Thicknesses reported as minimum average

\* Bare copper

