

CU 2000V EPR/LSZH RW90 TRACTION CABLE

2000 Volt Single Conductor Copper, No Lead Ethylene Propylene Rubber (NLEPR) insulation RW90 Low Smoke, Zero Halogen (LSZH) Jacket



CONSTRUCTION

1. Conductor: Stranded bare or tinned copper per ASTM B3 or B33.
2. Binder Tape: Mylar Tape
3. Insulation: No Lead Ethylene Propylene Rubber (EPR) Type RW90
4. Overall Jacket: Low Smoke Zero Halogen (LSZH) Jacket

APPLICATIONS AND FEATURES

2000V EPR Power 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 LSZH XLPO jacket. Meets Flame Spread and Smoke Release requirements of NFPA 130. 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
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors (As Applicable)
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- CSA C22.2 No.230 Tray Cables - Rated TC-ER
- CSA C22.2 No. 2556 / UL 2556 Cable Test Methods
- CSA SUN RES - for Sunlight Resistant rating
- CSA ST1 Smoke Test - marked FT4-ST1 (1/0 and Larger)
- 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)
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems

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Table 1 – Weights & Measurements

| Cond. Size | Cond. Number | Strand Count | Diameter Over Cond. | Insul. Thickness | Jacket Thickness | Approx. OD | Copper. Weight | Approx. Weight |
|------------|--------------|----------------|---------------------|------------------|------------------|------------|----------------|----------------|
| AWG/Kc-mil | | No. of Strands | Inches | Mils | Mils | Inches | lb/1000ft | lb/1000ft |
| 1/0 | 1 | 19 | 0.361 | 65 | 45 | 0.541 | 325 | 391 |
| 2/0 | 1 | 19 | 0.405 | 65 | 45 | 0.585 | 410 | 482 |
| 3/0 | 1 | 19 | 0.456 | 65 | 45 | 0.636 | 518 | 598 |
| 4/0 | 1 | 19 | 0.512 | 65 | 45 | 0.692 | 653 | 741 |
| 250 | 1 | 37 | 0.558 | 75 | 65 | 0.768 | 771 | 884 |
| 350 | 1 | 37 | 0.661 | 75 | 65 | 0.871 | 1081 | 1212 |
| 500 | 1 | 37 | 0.789 | 75 | 65 | 0.999 | 1544 | 1697 |
| 500 | 1 | 91 | 0.789 | 75 | 65 | 1.093 | 1543 | 1803 |
| 535.5 | 1 | 1349 | 0.830 | 90 | 65 | 1.157 | 1560 | 1803 |
| 535.3 | 1 | 1349 | 0.830 | 120 | 95 | 1.288 | 1560 | 2010 |
| 750 | 1 | 61 | 0.968 | 90 | 65 | 1.302 | 2315 | 2656 |
| 1000 | 1 | 61 | 1.117 | 90 | 65 | 1.357 | 3088 | 3330 |
| 1000 | 1 | 427 | 1.117 | 90 | 65 | 1.493 | 3150 | 3543 |
| 1000 | 1 | 61 | 1.117 | 120 | 65 | 1.513 | 3087 | 3536 |
| 1500 | 1 | 91 | 1.37 | 115 | 95 | 1.818 | 4631 | 5277 |
| 1500 | 1 | 91 | 1.37 | 140 | 125 | 1.936 | 4631 | 5481 |
| 2000 | 1 | 127 | 1.583 | 115 | 95 | 1.863 | 6175 | 6569 |

All dimensions are nominal and subject to normal manufacturing tolerances

[†]Thicknesses reported as minimum average

* Bare copper

! Class G stranding per ASTM B173: Standard Specification for Rope-Lay-Stranded Copper Conductors Having Concentric-Stranded Members, for Electrical Conductors

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