

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



Images not to scale. See Table 1 for Dimensions

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/ Kcmil		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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