

CU 2000V EPR RHH/RHW-2 Thermoset LSZH-TS TRACTION POWER CABLE

Traction Power Cable 2000 Volt Single Conductor Copper, Composite Insulation Ethylene Propylene Rubber (EPR) RHH/RHW-2 and Thermoset SOLONON® Low Smoke Zero Halogen (LSZH-TS)

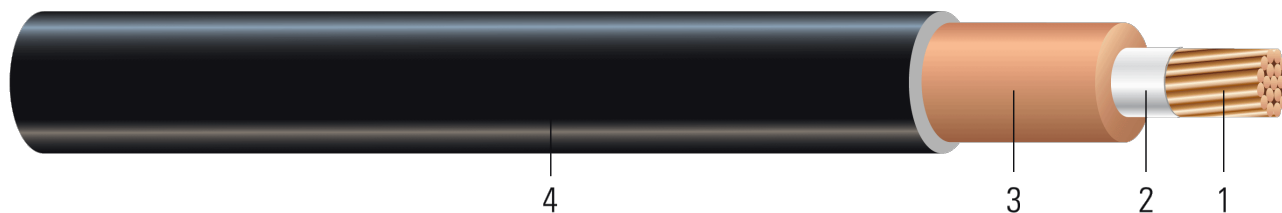


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Class B compressed stranded bare copper per ASTM B3, B8, and/or B33. Center strand embossed with "Southwire, Year, Plant" when required
- Binder Tape:** Mylar Tape
- Insulation Inner Layer:** Ethylene Propylene Rubber (EPR) Type RHH/RHW-2
- Insulation Outer Layer:** Thermoset SOLONON® Low Smoke Zero Halogen (LSZH-TS)

APPLICATIONS AND FEATURES:

Southwire 2000V EPR/SOLONON Traction 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 outer insulation. Meets Flame Spread and Smoke Release requirements of NFPA 130. Rated for 1000 lbs./FT maximum sidewall pressure. Alternate constructions available upon request.

SPECIFICATIONS:

- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test (1/0 and Larger)
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems (500kcmil & Larger)
- Buy American: Compliant with Buy American Requirements, found in 49 U.S.C. § 5323(j); specify "Made in the USA Only!" when ordering to ensure your project receives American made 600V products.

SAMPLE PRINT LEGEND:

SOUTHWIRE{R} E30117 {UL} XXX KCMIL CU TYPE RHH OR RHW-2 XX MILS EPR XX MILS SOLONON{R} ST1 FOR CT USE
SUN RES 2000V



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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand Count	Diameter Over Conductor	Insul. Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/Kcmil	No. of Strands	inch	mil	inch	lb/1000ft	lb/1000ft
TBA	4/0	19	0.512	110	0.732	653	764
TBA	250	37	0.558	140	0.838	772	930
TBA	350	37	0.661	140	0.941	1081	1264
TBA	500	37	0.789	140	1.069	1544	1756
TBA	750	61	0.968	155	1.278	2316	2600
TBA	1000	127	1.117	155	1.427	3088	3410
TBA	1500	91	1.370	210	1.79	4631	5174
TBA	2000	127	1.583	210	2.003	6175	2791

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

^Tinned Copper Conductor

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	Allowable Ampacity At 60° C†	Allowable Ampacity At 75° C†	Allowable Ampacity At 90° C†
	AWG/Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
TBA	4/0	5.8	1692	0.051	0.065	0.013	195	230	260
TBA	250	6.7	2000	0.043	0.054	0.015	215	255	290
TBA	350	7.5	2800	0.031	0.039	0.013	260	310	350
TBA	500	8.5	4000	0.022	0.028	0.012	319	381	430
TBA	750	10.2	6000	0.014	0.020	0.012	397	474	535
TBA	1000	11.4	8000	0.011	0.016	0.011	456	545	615
TBA	1500	14.3	10000	0.007	0.012	0.011	525	625	705
TBA	2000	16.0	10000	0.005	0.010	0.011	556	665	750

† Ampacities are based on 2020 NEC Table 310.16: Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)

