

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

Traction Power Cable 2000 Volt Single Conductor Copper, Ethylene Propylene Rubber (EPR) insulation RHH/RHW-2 SOLONON® Low Smoke Zero Halogen (LSZH) Jacket

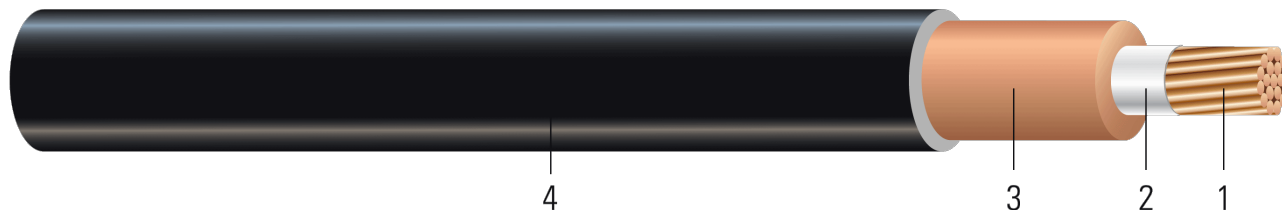


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

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

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 jacket. 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

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	Diameter Over Insulation	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/ Kcmil	No. of Strands	inch	mil	inch	mil	inch	lb/1000ft	lb/1000ft
TBA	250	37	0.558	75	0.708	65	0.838	772	941
644487	350	37	0.661	75	0.811	65	0.941	1081	1291
890433	500	37	0.789	75	0.939	65	1.069	1544	1788
TBA	750	61	0.968	90	1.148	65	1.278	2316	2632
647082	1000	127	1.117	90	1.431	65	1.427	3088	3445
551235 [^]	1500	91	1.370	115	1.600	95	1.79	4631	5251
TBA	2000	127	1.583	115	1.813	95	2.003	6175	6842

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	Shield Short Circuit Current 6 Cycles	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	Amp
TBA	250	6.8	2000	0.043	0.054	0.031	56854	215	255	290
644487	350	7.5	2800	0.031	0.039	0.030	79583	260	310	350
890433	500	8.6	4000	0.022	0.028	0.029	113690	319	381	430
TBA	750	10.2	6000	0.014	0.020	0.028	170535	397	474	535
647082	1000	11.4	8000	0.011	0.016	0.027	227380	456	545	615
551235 [^]	1500	14.32	12000	0.007	0.012	0.028	341069	525	625	705
TBA	2000	16.0	16000	0.005	0.010	0.027	454759	556	665	750

† Ampacities are based on Table 310.15 (B)(16) of the NEC, 2017 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)

