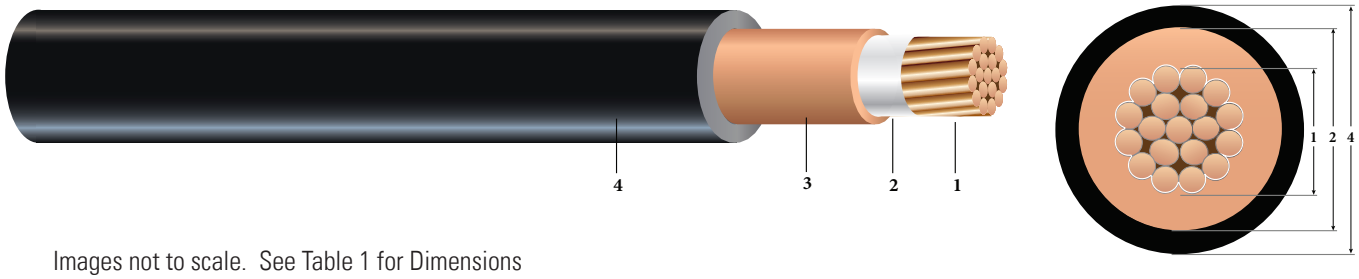
1/C CU 2000V EPR RHH/RHW-2 LSZH TRACTION POWER CABLE

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



Images not to scale. See Table 1 for Dimensions

CONSTRUCTION:

1. **Conductor**: Class B compressed stranded bare copper per ASTM B3 B8 B33. Center strand embossed with "Southwire, Year, Plant" when required.
2. **Binder Tape**: Mylar Tape
3. **Insulation**: Ethylene Propylene Rubber (EPR) Type RHH/RHW-2
4. **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. Alternate constructions available upon request.

SPECIFICATIONS:

- ASTM B3 Soft or annealed copper
- ASTM B8 Concentric-lay-standard copper
- ASTM B33 Tin coated copper conductors
- UL 44 Thermoset Insulated wires and cables
- UL 1685 - Flame Test
- IEEE 1202/FT4 - Flame Test (70,000 Btu/hr Vertical Tray Test)
- ICEA S-95-658 NEMA WC70 - Power Cables rated 2000 volts or less for the distribution of electrical energy

SAMPLE PRINT LEGEND:

SOUTHWIRE EXXXXX #P# (UL) [#AWG Or #kcmil] CU RHH/RHW-2 EPR/LSZH 2000V Type TC For CT USE SUN. RES. For DIRECT BURIAL FT4 [-25°C] YEAR (NESC) [SEQUENTIAL FEET MARKS]

Table 1 – Weights & Measurements

Stock Code	Cond. Size AWG	Dia Over Cond. (1) inches	Insul. Thickness inches	Dia Over Insul. (3) inches	Jacket Thick-ness mils	Approx. OD (4) inches	Copper Weight lbs./MFT	Approx. Weight lbs./MFT
644487	350	0.661	75	0.811	65	0.941	1081	1291
890433	500	0.789	75	0.939	65	1.069	1544	1788
TBA	750	0.968	90	1.148	65	1.278	2316	2632
TBA	1000	1.117	90	1.297	65	1.427	3088	3445
551235‡	1500	1.370	115	1.600	95	1.790	4631	5251
TBA	2000	1.583	115	1.813	95	2.003	6175	6842

All dimensions are nominal and subject to normal manufacturing tolerances
‡ Tinned Copper Conductor

Table 2 – Electrical and Engineering Data

Stock Code	Cond. Size AWG	Min. Bending Radius Inches	Max. Pull Tension lbs.	Resistance DC @ 25°C Ω/MFT	Resistance AC @ 90°C Ω/MFT	Reactance X_L @ 60Hz Ω/MFT	Ø Short Circuit Current 6 Cycles Amps	Allowable Ampacities † 60 °C Amps	75 °C Amps	90 °C Amps
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
TBA	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, 2014 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)
‡ Tinned Copper Conductor