# 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)

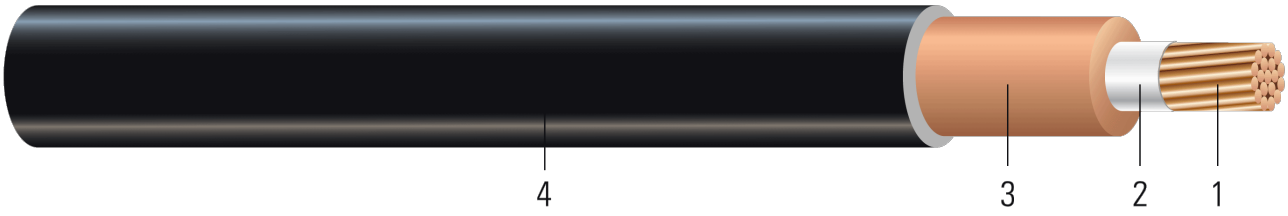



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

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


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## SAMPLE PRINT LEGEND:

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

### Table 1 – Physical and Electrical Data

| Cond. Size | Strand Class | Strand Count | Cond. Cmil | Cond. Number | Diameter Over Conductor | Insul. Thickness | Jacket Thickness | Jacket Color | Approx. OD | Approx. Weight | DC Resistance @ 25°C | AC Resistance @ 75°C | Max Pull Tension |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AWG/ kcmil | | No. of Strands | cmil | No. | inch | mil | mil | | inch | lb/1000ft | Ω/1000ft | Ω/1000ft | lb |
| 350 | B | 37 | 350000 | 1 | 0.661 | 75 | 65 | BK | 0.941 | 1283 | 0.031 | 0.039 | 2800 |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
Jacket thickness column is the Insulation Outer Layer under step #4 in the construction section
^ Class H flexible ropelay tinned copper conductor per ASTM B33 and B173
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.


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