



## CU 2000V EPR Insulation Thermoset CPE-TS Jacket. RHH/RHW-2

Power Cable 2000 Volt Single Conductor Copper, Ethylene Propylene Rubber (EPR) insulation RHH/RHW-2 Thermoset Chlorinated Polyethylene (CPE-TS) Jacket



Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

- Conductor:** Class B compressed stranded bare or tinned copper per ASTM B3, ASTM B8, ASTM B33
- Binder Tape:** Mylar Tape
- Insulation:** Ethylene Propylene Rubber (EPR) Type RHH/RHW-2
- Overall Jacket:** Cross-linked/Thermoset Chlorinated Polyethylene (CPE-TS) Jacket

### APPLICATIONS AND FEATURES:

Southwire's 2000 Volt power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions. For uses in Class I, II, and III, Division 2 hazardous locations per NEC Article 501 and 502.

### 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
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- CT USE Sizes 1/0 AWG and Larger

### SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE {UL} XXXX KCMIL CU TYPE RHH OR RHW-2 XX MILS EPR XX MILS THERMOSET CPE FOR CT USE SUN RESISTANT 2000 VOLT CABLE

**Table 1 – Weights and Measurements**

| Cond. Size    | Cond. Number | Strand Count   | Diameter Over Conductor | Min. Avg. Insul. Thickness | Jacket Thickness | Approx. OD | Copper Weight | Approx. Weight |
|---------------|--------------|----------------|-------------------------|----------------------------|------------------|------------|---------------|----------------|
| AWG/<br>Kcmil |              | No. of Strands | inch                    | mil                        | mil              | inch       | lb/1000ft     | lb/1000ft      |
| 1000          | 1            | 61             | 1.117                   | 90                         | 65               | 1.449      | 3087          | 3471           |

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**

| Cond. Size | Cond. Number | Min Bending Radius | Max Pull Tension | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance @ 60Hz | Allowable Ampacity At 75°C | Allowable Ampacity At 90°C |
|------------|--------------|--------------------|------------------|----------------------|----------------------|----------------------------|----------------------------|----------------------------|
| AWG/Kcmil  |              | inch               | lb               | Ω/1000ft             | Ω/1000ft             | Ω/1000ft                   | Amp                        | Amp                        |
| 1000       | 1            | 7.2                | 8000             | 0.011                | 0.018                | 0.037                      | 545                        | 615                        |

\* Ampacities based upon 2023 NEC Table 310.16. See NEC sections 310.15 and 110.14(C) for additional requirements.

\* Inductive Reactance is based on non-ferrous conduit with one diameter spacing center-to-center.

