# 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:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and B8 or class B compressed stranded tinned copper per ASTM B33 and B8
2. **Binder Tape:** Mylar Tape
3. **Insulation:** Ethylene Propylene Rubber (EPR) Type RHH/RHW-2
4. **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.

## 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


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## Table 1 – Weights and Measurements

| Stock Number | Cond. Size | Strand Count | Diameter Over Conductor | Min. Avg. Insul. Thickness | Jacket Thickness | Approx. OD | Copper Weight | Approx. Weight |
|---|---|---|---|---|---|---|---|---|
| | AWG/ Kcmil | No. of Strands | inch | mil | mil | inch | lb/1000ft | lb/1000ft |
| TBA | 14 | 7 | 0.070 | 45 | 15 | 0.190 | 12 | 24 |
| TBA | 12 | 7 | 0.088 | 45 | 15 | 0.208 | 20 | 34 |
| TBA | 10 | 7 | 0.113 | 45 | 15 | 0.233 | 32 | 48 |
| TBA | 8 | 7 | 0.141 | 55 | 30 | 0.311 | 50 | 81 |
| 457178 | 6 | 7 | 0.178 | 55 | 30 | 0.364 | 81 | 126 |
| TBA | 1 | 19 | 0.322 | 65 | 45 | 0.542 | 258 | 335 |
| TBA | 1/0 | 19 | 0.361 | 65 | 45 | 0.581 | 325 | 409 |
| TBA | 2/0 | 19 | 0.405 | 65 | 45 | 0.625 | 410 | 502 |
| TBA | 3/0 | 19 | 0.456 | 65 | 45 | 0.676 | 518 | 619 |
| 138544^ | 4/0 | 19 | 0.512 | 65 | 45 | 0.748 | 653 | 788 |
| 137828 | 250 | 37 | 0.542 | 75 | 65 | 0.842 | 771 | 962 |
| TBA | 350 | 37 | 0.661 | 75 | 65 | 0.941 | 1081 | 1264 |
| 459400 | 500 | 37 | 0.766 | 75 | 65 | 1.066 | 1543 | 1793 |
| 679291^ | 500 | 37 TCu | 0.789 | 75 | 65 | 1.089 | 1543 | 1799 |
| TBA | 600 | 61 | 0.865 | 90 | 65 | 1.175 | 1853 | 2111 |
| TBA | 750 | 61 | 0.968 | 90 | 65 | 1.278 | 2316 | 2600 |
| TBA | 800 | 61 | 1.000 | 90 | 65 | 1.310 | 2470 | 2763 |
| 641560 | 1000 | 61 | 1.117 | 90 | 65 | 1.449 | 3087 | 3471 |
| TBA | 2000 | 127 | 1.583 | 115 | 95 | 2.003 | 6175 | 6791 |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
^ Tinned Copper Conductor
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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## Table 2 – Electrical and Engineering Data

| Stock Number | Cond. Size | 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 |
| TBA | 14 | 0.7 | 33 | 2.631 | 3.170 | 0.058 | 20 | 25 |
| TBA | 12 | 0.8 | 52 | 1.662 | 2.002 | 0.054 | 25 | 30 |
| TBA | 10 | 0.9 | 83 | 1.040 | 1.253 | 0.050 | 35 | 40 |
| TBA | 8 | 1.2 | 132 | 0.653 | 0.786 | 0.052 | 50 | 55 |
| 457178 | 6 | 1.5 | 209 | 0.411 | 0.495 | 0.051 | 65 | 75 |
| TBA | 1 | 2.2 | 669 | 0.128 | 0.154 | 0.046 | 130 | 145 |
| TBA | 1/0 | 2.3 | 844 | 0.102 | 0.122 | 0.044 | 150 | 170 |
| TBA | 2/0 | 2.5 | 1064 | 0.081 | 0.097 | 0.043 | 175 | 195 |
| TBA | 3/0 | 2.7 | 1342 | 0.064 | 0.078 | 0.042 | 200 | 225 |
| 138544^ | 4/0 | 2.9 | 1692 | 0.051 | 0.062 | 0.041 | 230 | 260 |
| 137828 | 250 | 3.4 | 2000 | 0.043 | 0.053 | 0.032 | 255 | 290 |
| TBA | 350 | 3.7 | 2800 | 0.031 | 0.039 | 0.040 | 310 | 350 |
| 459400 | 500 | 5.3 | 4000 | 0.022 | 0.029 | 0.039 | 380 | 430 |
| 679291^ | 500 | 5.4 | 4000 | 0.022 | 0.029 | 0.039 | 380 | 430 |
| TBA | 600 | 5.8 | 4800 | 0.018 | 0.025 | 0.039 | 420 | 475 |
| TBA | 750 | 6.3 | 6000 | 0.014 | 0.022 | 0.038 | 475 | 535 |
| TBA | 800 | 6.5 | 6400 | 0.013 | 0.021 | 0.028 | 490 | 555 |
| 641560 | 1000 | 7.2 | 8000 | 0.011 | 0.018 | 0.037 | 545 | 615 |
| TBA | 2000 | 12.0 | 10000 | 0.005 | 0.016 | 0.027 | 665 | 750 |

***** 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.


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