



## CU 2000V XLPE Insulation. RHH/RHW-2 PV

Single Conductor Photovoltaic (Type PV) Power Cable 2000 Volt Copper Conductor XLPE Insulation. Sizes 14 AWG through 1000 Kcmil. Heat, Moisture, Sunlight Resistant RoHS. 90°C

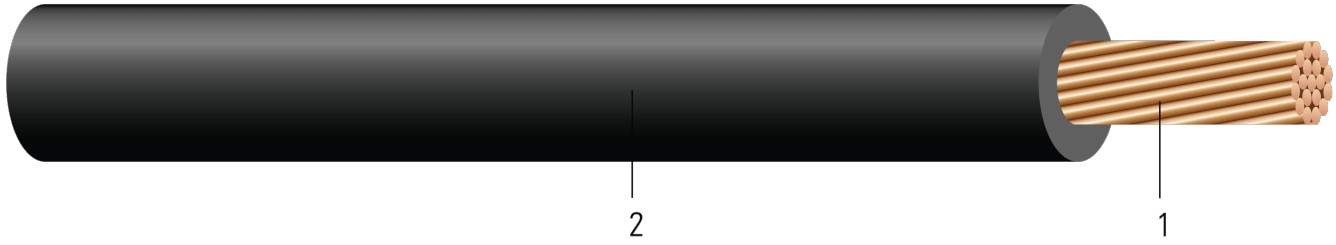


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

- Conductor:** Stranded bare copper per ASTM B3 and ASTM B8 or ASTM B787
- Insulation:** Cross Linked Polyethylene (XLPE). Colors available upon request.

### APPLICATIONS AND FEATURES:

Southwire's 2000 Volt power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, 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 B787 19 Wire Combination Unilay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 4703 Standard for Photovoltaic Wire
- Made in America: Compliant with both Buy American and Buy America Act (BAA) requirements per 49 U.S.C. § 5323(j) and the Federal Transit Administration Buy America requirements per 49 C.F.R. part 661
- VW-1 Vertical-Wire Flame Test (Optional)

### SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE E316464 {UL} PV WIRE XX AWG (XX.X{MM2}) CU 2000V 90{D}C WET OR DRY -40{D}C SUN RES DIRECT BURIAL OR RHH-RHW-2 2000V --- RoHS

**Table 1 – Weights and Measurements**

| Cond. Size<br>AWG/Kcmil | Cond. Number | Strand Count<br>No. of Strands | Diameter Over Conductor<br>inch | Insul. Thickness<br>mil | Approx. OD<br>inch | Copper Weight<br>lb/1000ft | Approx. Weight<br>lb/1000ft |
|-------------------------|--------------|--------------------------------|---------------------------------|-------------------------|--------------------|----------------------------|-----------------------------|
| 1/0                     | 1            | 19                             | 0.361                           | 105                     | 0.570              | 326                        | 396                         |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

\*VW-1 Rated





**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                        |
| 1/0        | 1            | 2.3                | 844              | 0.102                | 0.122                | 0.044                      | 150                        | 170                        |

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.

**Stock Code Colors**

| Size      | Black  | White  | Red    | Green | Green/Yellow |
|-----------|--------|--------|--------|-------|--------------|
| AWG/Kcmil |        |        |        |       |              |
| 14        | 597961 |        |        |       |              |
| 12        | 597958 | 596376 | 596377 |       |              |
| 10        | 579962 | 583665 | 583687 |       |              |
| 1/0       | 569043 |        |        |       | 677562       |
| 2/0       | 569044 |        |        |       |              |
| 3/0       | 569045 |        |        |       |              |
| 4/0       | 569047 |        |        |       |              |
| 250       | 679559 |        |        |       |              |
| 300       | 653096 | 599400 | 599401 |       |              |
| 350       | 590138 |        |        |       |              |
| 400       | 587813 |        |        |       |              |
| 500       | 578324 |        |        |       |              |
| 600       | 672530 |        |        |       |              |

**Stock Code Colors (VW-1)**

| Size      | Black  | White  | Red    | Green  | Green/Yellow |
|-----------|--------|--------|--------|--------|--------------|
| AWG/Kcmil |        |        |        |        |              |
| 10        | 568110 |        | 577645 |        |              |
| 8         | 569037 | 585080 | 589110 |        |              |
| 6         | 569039 |        | 671956 | 585840 |              |
| 4         | 569040 | 673880 |        | 653094 |              |
| 2         | 569041 |        |        |        |              |
| 1000      | 457200 |        |        |        |              |

