

# **CU 600V XLPE Insulation. RHH/RHW-2 PV**

Single Conductor Photovoltaic (Type PV) Power Cable 600 Volt Copper Conductor XLPE Insulation. Sizes 14 AWG through 1000 kcmil. Heat, Moisture, Sunlight Resistant RoHS. 90°C

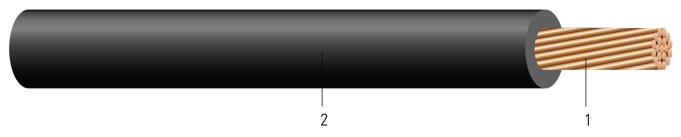


Image not to scale. See Table 1 for dimensions.

#### **CONSTRUCTION:**

- 1. **Conductor:** Stranded bare copper per ASTM B3 and ASTM B8 or B787
- 2. Insulation: Cross Linked Polyethylene (XLPE). Alternative colors available upon request (see Table 3 below)

## **APPLICATIONS AND FEATURES:**

Southwire's 600 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.XXmm2) CU 600V 90°C WET OR DRY -40°C SUN RES DIRECT BURIAL OR RHW-2 600V --- RoHS

# **Table 1 – Weights and Measurements**

| Cond. Size | Cond. Number | Strand Count   | Diameter Over Conductor | Insul. Thickness | Insulation Color | Approx. OD | Copper Weight | Approx. Weight |
|------------|--------------|----------------|-------------------------|------------------|------------------|------------|---------------|----------------|
| AWG/Kcmil  |              | No. of Strands | inch                    | mil              |                  | inch       | lb/1000ft     | lb/1000ft      |
| 10         | 1            | 19             | 0.117                   | 60               | BK               | 0.231      | 32            | 47             |

All dimensions are nominal and subject to normal manufacturing tolerances

♦ Cable marked with this symbol is a standard stock item

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.







# Table 2 – Electrical and Engineering Data

| Cond.<br>Size | Cond.<br>Number | Min Bending<br>Radius | DC Resistance @<br>25°C | AC Resistance @<br>75°C | Inductive Reactance<br>@ 60Hz | Allowable Ampacity<br>At 75°C | Allowable Ampacity<br>At 90°C |
|---------------|-----------------|-----------------------|-------------------------|-------------------------|-------------------------------|-------------------------------|-------------------------------|
| AWG/<br>Kcmil |                 | inch                  | Ω/1000ft                | Ω/1000ft                | Ω/1000ft                      | Amp                           | Amp                           |
| 10            | 1               | 0.9                   | 1.040                   | 1.253                   | 0.050                         | 35                            | 40                            |

## **Table 3: Stock Code Colors**

| Size      | Black  | White  | Red    | Green | Green/Yellow |
|-----------|--------|--------|--------|-------|--------------|
| AWG/kcmil |        |        |        |       |              |
| 12        | 567946 |        |        |       |              |
| 10        | 567947 | 567949 | 567948 |       |              |

