2000 Volt High Flex Copper Type PV

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



Image not to scale. See Table 1 for dimensions.

#### **CONSTRUCTION:**

- 1. **Conductor:** Flexible stranded bare copper per ASTM B3 and ASTM B173 or flexible tinned copper per ASTM B33.
- 2. Insulation: Cross Linked Polyethylene (XLPE).

### **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 B173 Rope-Lay-Stranded Copper Conductors Having Concentric-Stranded Members
- 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

#### SAMPLE PRINT LEGEND:

SOUTHWIRE E316464 {UL} PV WIRE XX AWG (XXX.XX{mm2}) CU 2000V 90°C WET OR DRY -40°C SUN RES DIRECT BURIAL VW-1 OR RHW-2 2000V --- RoHS {MMM/DD/YYYY}

## **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      |
| 6          | 1            | 49             | 0.210                   | 85               | GN               | 0.359      | 82            | 135            |

All dimensions are nominal and subject to normal manufacturing tolerances

♦ Cable marked with this symbol is a standard stock item

# Table 2 – Electrical and Engineering Data

| 6 | 1 | 1.4 | 209 | 0.446 | 0.536 | 0.051 | 65 | 75 |
|---|---|-----|-----|-------|-------|-------|----|----|

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

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







## **Stock Code Colors**

| Size (Strand) | Black  | Red    | White  | Green  |
|---------------|--------|--------|--------|--------|
| 8 (49)        | 664694 | 664709 | 668032 |        |
| 8 (54)        | 668048 | 668051 |        |        |
| 6 (49)        |        |        |        | 457937 |
| 6 (133)       | 668079 | 457051 |        |        |



