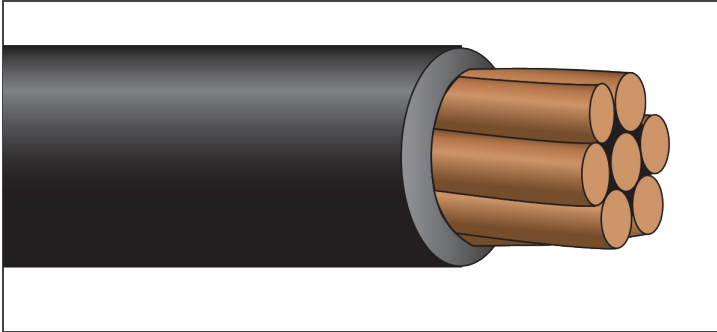


## SINGLE CONDUCTOR



## SERVICESOLAR® (PV)

### USE-2 or RHW-2

1,000/2,000 Volt Copper, VW-1

No Pulling Lubricant Required



### Description:

Single copper conductor, stranded and insulated with moisture and heat resistant crosslinked polyethylene. Featuring ServicePRO-X® Insulation – No Pulling Lubricant Required (#6 AWG and larger). Rated 2kV to meet the challenging requirements of transformerless inverters on photovoltaic (solar) panel installations. **Available in colors.**

### Application:

Suitable for use as interconnection wiring on solar panels in grounded or ungrounded systems as defined in applicable parts of the National Electrical Code (NEC) NFPA 70, such as article 690.31(A). Suitable for use in 105°C dry systems. Also suitable for use in low leakage circuits requiring a dielectric constant of 3.5 or less (Hospital Grade).

### Standards:

ASTM Standards: B-3 (soft or annealed), B-8 (concentric lay stranded), B787 (combination strand)  
 UL 44 RHW-2, UL 854 USE-2 and UL 4703 PV Wire  
 C(UL) RPVU90 1kV/2kV: CSA C22.2 #271  
 ICEA S-95-658/NEMA WC-70  
 Federal Spec. A-A-59544  
 Flame Rated: VW-1, CT Use (1/0 AWG and larger)  
 Temperature Rated at 90°C Wet/Dry  
 Cold Temperature Rated at -40°C  
 Sunlight Resistant, Gasoline and Oil Resistant II  
 Direct Burial  
 RoHS Compliant

| Part Number | Size<br>AWG or Kcmil | Strand<br>(no.) | Insulation Thickness<br>(mils) | Nominal Diameter Overall<br>(in.) | Approx. Net Weight<br>(lb./1000') | Ampacity*<br>90°C Wet/Dry |
|-------------|----------------------|-----------------|--------------------------------|-----------------------------------|-----------------------------------|---------------------------|
| PV2K14VW    | 14                   | 7               | 75                             | 0.22                              | 35                                | 35†                       |
| PV2K14VW-C  | 14                   | 19              | 75                             | 0.22                              | 35                                | 35†                       |
| PV2K12VW    | 12                   | 7               | 75                             | 0.24                              | 46                                | 40†                       |
| PV2K12VW -C | 12                   | 19              | 75                             | 0.24                              | 46                                | 40†                       |
| PV2K10VW    | 10                   | 7               | 75                             | 0.27                              | 62                                | 55†                       |
| PV2K10VW-C  | 10                   | 19              | 75                             | 0.27                              | 62                                | 55†                       |
| PV2K8VW     | 8                    | 7               | 85                             | 0.31                              | 90                                | 80                        |
| PV2K8VW-C   | 8                    | 19              | 85                             | 0.31                              | 90                                | 80                        |
| PV2K6VW     | 6                    | 7               | 85                             | 0.35                              | 128                               | 105                       |
| PV2K4VW     | 4                    | 7               | 85                             | 0.40                              | 187                               | 140                       |
| PV2K3VW     | 3                    | 7               | 85                             | 0.42                              | 226                               | 165                       |
| PV2K2VW     | 2                    | 7               | 85                             | 0.45                              | 276                               | 190                       |
| PV2K1VW     | 1                    | 19              | 105                            | 0.53                              | 349                               | 220                       |
| PV2K1/0VW   | 1/0                  | 19              | 105                            | 0.57                              | 427                               | 260                       |
| PV2K2/0VW   | 2/0                  | 19              | 105                            | 0.61                              | 525                               | 300                       |
| PV2K3/0VW   | 3/0                  | 19              | 105                            | 0.66                              | 646                               | 350                       |
| PV2K4/0VW   | 4/0                  | 19              | 105                            | 0.72                              | 798                               | 405                       |
| PV2K250VW   | 250                  | 37              | 120                            | 0.81                              | 935                               | 455                       |
| PV2K300VW   | 300                  | 37              | 120                            | 0.87                              | 1,105                             | 500                       |
| PV2K350VW   | 350                  | 37              | 120                            | 0.92                              | 1,273                             | 570                       |
| PV2K400VW   | 400                  | 37              | 120                            | 0.96                              | 1,439                             | 615                       |
| PV2K500VW   | 500                  | 37              | 120                            | 1.04                              | 1,769                             | 700                       |
| PV2K600VW   | 600                  | 61              | 135                            | 1.16                              | 2,118                             | 780                       |
| PV2K750VW   | 750                  | 61              | 135                            | 1.26                              | 2,609                             | 885                       |

\*Based on ambient temperature of 30°C per NEC Table 310.15 (B)(17). †The overcurrent protection for items marked with an obelisk (†) shall not exceed 15 amps for #14 AWG, 20 amps for #12 AWG, and 30 amps for #10 AWG per NEC 310-17 footnote. NOTE: Photovoltaic module interconnection wire for use with or without a raceway in accordance with wiring systems Article 690 in the National Electrical Code (NEC), NFPA 70. NOTE: The data shown is approximate and subject to standard industry tolerances.