



**Product:** [38308](#) 

UL Type PV Wire, #8 Str TC, XLPO Ins, PVC Jkt, 2000V PV 90C Dry/Wet

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## Product Description

UL Type PV Wire, 8AWG (133(7x19)x29) Tinned Copper, XLPO Insulation, PVC Outer Jacket, 2000V PV 90C Dry/Wet USE-2 RHW-2 SUN RES

## Technical Specifications

### Product Overview

|                        |                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) of the 2008 NEC. |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------|

### Construction Details

#### Conductor

| Size | Stranding | Material           |
|------|-----------|--------------------|
| 8    | 133x29    | TC - Tinned Copper |

#### Insulation

| Material                    | Nom. Thickness    |
|-----------------------------|-------------------|
| XLP, XLPO, XLPE (Thermoset) | 0.073 in (1.9 mm) |
| XLP, XLPO, XLPE (Thermoset) |                   |

#### Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter |
|--------------------------|--------------------|---------------|
| PVC - Polyvinyl Chloride | 0.033 in (0.84 mm) | 0.384 in      |

### Electrical Characteristics

#### Electricals

| Nom. Conductor DCR           | Max. Current                         |
|------------------------------|--------------------------------------|
| 0.61 Ohm/1000ft (2.0 Ohm/km) | 80 Amps Single Conductor in Free Air |

#### Voltage

| UL Voltage Rating                     | Voltage Rating |
|---------------------------------------|----------------|
| 2000 V (PV, RHW-2), 600 V RMS (USE-2) | 600 V          |

### Mechanical Characteristics

#### Temperature

| UL Temperature | Operating      |
|----------------|----------------|
| 90°C           | -40°C To +90°C |

|                    |                           |
|--------------------|---------------------------|
| Max. Pull Tension: | 213 lbs (96.6 kg)         |
| Bulk Cable Weight: | 96 lbs/1000ft (140 kg/km) |

### Standards and Compliance

|                                  |                     |
|----------------------------------|---------------------|
| Environmental Suitability:       | Sunlight Resistance |
| Flammability / Reaction to Fire: | VW-1                |
| AWM Compliance:                  | PV, USE-2, RHW-2    |
| Military Compliance:             | N/A                 |

History

Update and Revision: Revision Number: 0.507 Revision Date: 09-07-2025

Part Numbers

Variants

| Item #        | Color | Putup Type | Length   | UPC          | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 38308 0105000 | Black | Reel       | 5,000 ft | 612825147701 | C        |

Footnote: C - CRATE REEL PUT-UP.

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