



**Product:** [38108](#)

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

[Request Sample](#)

**Product Description**

UL Type PV Wire, 8AWG (133(7x19)x29) Tinned Copper, XLPO Insulation, 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. |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------|

**Physical Characteristics (Overall)**

**Conductor**

| AWG | Stranding | Material           | No. of Conductors |
|-----|-----------|--------------------|-------------------|
| 8   | 133x29    | TC - Tinned Copper | 1                 |

|                  |   |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

**Insulation**

| Material                    | Nominal Diameter | Nominal Wall Thickness |
|-----------------------------|------------------|------------------------|
| XLP, XLPO, XLPE (Thermoset) | 0.35 in          | 0.089 in               |

|              |                      |
|--------------|----------------------|
| Table Notes: | Paper Tape Separator |
|--------------|----------------------|

**Electrical Characteristics**

**Conductor DCR**

| Nominal Conductor DCR |
|-----------------------|
| 0.61 Ohm/1000ft       |

**Current**

| Element                                    | Max. Recommended Current [A]         |
|--------------------------------------------|--------------------------------------|
| Single Conductor in Free Air @ 30C Ambient | 80 Amps Single Conductor in Free Air |

**Voltage**

| UL Description | UL Voltage Rating | Voltage Rating [V] |
|----------------|-------------------|--------------------|
| PV, RHW-2      | 2000 V            | 600V               |
| USE-2          | 600 V RMS         |                    |

**Temperature Range**

|                              |                |
|------------------------------|----------------|
| UL Temp Rating:              | 90°C           |
| Operating Temperature Range: | -40°C To +90°C |

**Mechanical Characteristics**

|                              |               |
|------------------------------|---------------|
| Bulk Cable Weight:           | 94 lbs/1000ft |
| Max. Pull Tension:           | 213 lbs       |
| Min. Bend Radius/Minor Axis: | 3.5 in        |

**Standards**

|                          |                  |
|--------------------------|------------------|
| UL AWM Style Compliance: | PV, USA-2, RHW-2 |
|--------------------------|------------------|

|                      |     |
|----------------------|-----|
| Military Compliance: | N/A |
|----------------------|-----|

Applicable Environmental and Other Programs

|                                              |                               |
|----------------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):               | Yes                           |
| EU Directive 2003/96/EC (BFR):               | Yes                           |
| EU Directive 2011/65/EU (RoHS 2):            | Yes                           |
| EU Directive 2012/19/EU (WEEE):              | Yes                           |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes                           |
| EU Directive Compliance:                     | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                                  | Yes                           |
| MII Order #39 (China RoHS):                  | Yes                           |

Suitability

|                                    |     |
|------------------------------------|-----|
| Suitability - Sunlight Resistance: | Yes |
|------------------------------------|-----|

Flammability, LSOH, Toxicity Testing

|                    |            |
|--------------------|------------|
| UL Flammability:   | VW-1       |
| UL voltage rating: | 2000 V RMS |

Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Related Part Numbers

Variants

| Item #        | Color | Put-Up Type | Length   | UPC          |
|---------------|-------|-------------|----------|--------------|
| 38108 0105000 | Black | Reel        | 5,000 ft | 612825147534 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.348 Revision Date: 05-05-2023 |
|----------------------|--------------------------------------------------|

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