



**Product:** [38218](#)

UL Type PV Wire, #18 Str TC, XLPO Ins, PVC Jkt, 600V PV 90C Dry/Wet

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**Product Description**

UL Type PV Wire, 18AWG (16x30) Tinned Copper, XLPO Insulation, PVC Outer Jacket, 600V 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 |
|-----|-----------|--------------------|-------------------|
| 18  | 16x30     | TC - Tinned Copper | 1                 |

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

**Insulation**

| Material                    | Nominal Wall Thickness |
|-----------------------------|------------------------|
| XLP, XLPO, XLPE (Thermoset) | 0.048 in               |
| XLP, XLPO, XLPE (Thermoset) |                        |

**Outer Jacket Material**

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.215 in         | 0.033 in               |

**Electrical Characteristics**

**Conductor DCR**

| Nominal Conductor DCR |
|-----------------------|
| 6 Ohm/1000ft          |

**Current**

| Element                                   | Max. Recommended Current [A]         |
|---|--------------------------------------|
| Single conductor in free air @ 30 ambient | 18 Amps Single Conductor in Free Air |

**Voltage**

| UL Voltage Rating |
|-------------------|
| 600 V             |

**Temperature Range**

|                       |                |
|-----------------------|----------------|
| UL Temp Rating:       | 90°C Wet/Dry   |
| Operating Temp Range: | -40°C To +90°C |

**Mechanical Characteristics**

|                             |               |
|-----------------------------|---------------|
| Bulk Cable Weight:          | 24 lbs/1000ft |
| Max. Pull Tension:          | 21 lbs        |
| Min Bend Radius/Minor Axis: | 2.125 in      |

## Standards

|                          |     |
|--------------------------|-----|
| NEC/(UL) Compliance:     | PV  |
| UL AWM Style Compliance: | N/A |
| 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 II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2009-09-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

## Suitability

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

## Flammability, LS0H, Toxicity Testing

|                    |           |
|--------------------|-----------|
| UL Flammability:   | VW-1      |
| UL voltage rating: | 600 V RMS |

## Plenum/Non-Plenum

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

## Part Number

### Variants

| Item #        | Color | Putup Type | Length   | UPC          |
|---------------|-------|------------|----------|--------------|
| 38218 0105000 | Black | Reel       | 5,000 ft | 612825147695 |

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

## Product Notes

|        |                                    |
|--------|------------------------------------|
| Notes: | Separator material over conductor. |
|--------|------------------------------------|

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.282 Revision Date: 06-08-2020 |
|----------------------|--|

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