

Product: <u>38118</u> 🖄 UL Type PV Wire, #18 Str TC, XLPO Ins, 2000V PV 90C Dry/Wet Request Sample

Product Description

UL Type PV Wire, 18AWG (16x30) Tinned Copper, XLPO Insulation, 2000V PV 90C Dry/Wet SUN RES

Technical Specifications

oduct O •

| Produ | uct Over | view | | | |
|---------|---------------------------------------|-------------|--------------|------------|--|
| Suitab | le Applicatio | ns: | | Interconne | nection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) of the 2008 NEC |
| Physi | ical Char | acteristic | s (Overall) | | |
| Condu | ctor | | | | |
| AWG | Stranding | Materi | al No. of | Conductors | rs |
| 18 | 16x30 | TC - Tinned | Copper 1 | | |
| Condu | ctor Count: | | | 1 | |
| Insulat | ion | | | | |
| | Materia | al | Nominal Diam | eter Nomin | inal Wall Thickness |
| XLP, X | KLPO, XLPE | (Thermoset) | 0.209 in | 0.078 i | 3 in |
| XLP, X | KLPO, XLPE | (Thermoset) | | | |
| | rical Cha | racteristic | s | | |
| | n <mark>al Conduct</mark> n/1000ft | or DCR | | | |
| Curren | t | | | | |

| Element | Max. Recommended Current [A] |
|---|--------------------------------------|
| Single Conductor in Free Aair @ 30C Ambient | 18 Amps Single Conductor in Free Air |

Voltage

UL Voltage Rating 2000 V

Temperature Range

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

Mechanical Characteristics

| Bulk Cable Weight: | 22 lbs/1000ft |
|------------------------------|---------------|
| Max. Pull Tension: | 21 lbs |
| Min. Bend Radius/Minor Axis: | 2.125 in |

Standards

| UL AWM Style Compliance: | PV |
|--------------------------|-----|
| 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 | |

Flammability, LS0H, Toxicity Testing

Suitability - Sunlight Resistance:

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

Plenum/Non-Plenum

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

Related Part Numbers

| Variants | | | | |
|------------------|-------|-------------|--------------|--------------|
| ltem # | Color | Put-Up Type | Length | UPC |
| 38118 0105000 | Black | Reel | 5,000 ft | 612825147602 |
| Footnote: | | | C - CRATE RE | |
| istory | | | | |
| Update and Revis | sion: | | | Revision Num |

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Yes

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