

Product Description

UL Type PV Wire, 14AWG (41x30) Tinned Copper, XLPO Insulation, 600V PV 90C Dry/Wet SUN RES

Technical Specifications

Product Overview

| Suitabl | le Application | IS: | | Interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) of the 2008 N |
|----------|----------------|-------------|--------------|--|
| Physi | cal Chara | acteristics | s (Overall) | |
| Conduc | tor | | | |
| AWG | Stranding | Materia | al No. of | Conductors |
| 14 | 41x30 | TC - Tinned | Copper 1 | |
| Condu | ctor Count: | | | 1 |
| Insulati | on | | | |
| | Material | | Nominal Diam | eter Nominal Wall Thickness |
| XLP, X | (LPO, XLPE (| (Thermoset) | 0.207 in | 0.063 in |
| Table N | Notes: | | | Paper Tape Separator |
| | | acteristic | s | Paper Tape Separator |

Conductor DCR

| Nom | inal Conduc | tor DCR |
|-------|-------------|---------|
| 2.4 O | 0hm/1000ft | |

Current

| Element | Max. Recommended Current [A] |
|---|--------------------------------------|
| Single Conductor in Free Aair @ 30C Ambient | 35 Amps Single Conductor in Free Air |

Voltage

| Description | UL Voltage Rating | Voltage Rating [V] |
|-------------|-------------------|--------------------|
| CSA | 600 V | 1000 V |

Temperature Range

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

Mechanical Characteristics

| Bulk Cable Weight: | 28 lbs/1000ft |
|------------------------------|---------------|
| Max. Pull Tension: | 53.5 lbs |
| Min. Bend Radius/Minor Axis: | 2.25 in |

Standards

UL AWM Style Compliance:

PV, USA-2, RHW-2

| CSA Rating: | 1000V, 90C |
|----------------------|------------|
| CSA Type: | RW90 |
| 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:

Flammability, LS0H, Toxicity Testing

Yes

No

| UL Flammability: | VW-1 |
|--------------------|-----------|
| CSA Flammability: | FT1 |
| UL voltage rating: | 600 V RMS |

Plenum/Non-Plenum

| Plenum (| V/NI) | |
|----------|-------|--|

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|----------------|--------|-------------|----------|--------------|
| 38014 0105000 | Black | Reel | 5,000 ft | 612825147503 |
| Footnote: | | | | C - CRATE RE |
| listory | | | | |
| Update and Rev | ision: | | | Revision Num |

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