



Product: [38212](#)

UL Type PV Wire, #12 Str TC, XLPO Ins, PVC Jkt, 600V PV 90C Dry/Wet

Request Sample

Product Description

UL Type PV Wire, 12AWG (65x30) 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 |
|-----|-----------|--------------------|-------------------|
| 12 | 65x30 | 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 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.255 in | 0.033 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 1.5 Ohm/1000ft |

Current

| Element | Max. Recommended Current [A] |
|--------------------------------------------|--------------------------------------|
| Single Conductor in Free Air @ 30C Ambient | 40 Amps Single Conductor in Free Air |

Voltage

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

Temperature Range

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

Mechanical Characteristics

| | |
|------------------------------|---------------|
| Bulk Cable Weight: | 44 lbs/1000ft |
| Max. Pull Tension: | 84.5 lbs |
| Min. Bend Radius/Minor Axis: | 2.5 in |

Standards

| | |
|--------------------------|------------------|
| NEC/(UL) Compliance: | PV, RHW-2, USE-2 |
| 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 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) |
| MII Order #39 (China RoHS): | Yes |

Suitability

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

Flammability, LSOH, Toxicity Testing

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

Plenum/Non-Plenum

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

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|---------------|-------|-------------|----------|--------------|
| 38212 0105000 | Black | Reel | 5,000 ft | 612825147640 |

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

Product Notes

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

History

| | |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.385 Revision Date: 05-05-2023 |
|----------------------|--------------------------------------------------|

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