




Product: [38210](#) 

UL Type PV Wire, #10 Str TC, XLPO Ins, PVC Jkt, 600V PV 90C Dry/Wet

 [Request Sample](#)

Product Description

UL Type PV Wire, 10AWG (105x30) 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 |
|-----|-----------|--------------------|-------------------|
| 10 | 105x30 | 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 | 0.288 in | 0.033 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 0.91 Ohm/1000ft |

Current

| Element | Max. Recommended Current [A] |
|---|------------------------------|
| Single conductor in free air @ 30 ambient | 55 amps |

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: | 63 lbs/1000ft |
| Max Recommended Pulling Tension: | 136.5 lbs |
| Min Bend Radius/Minor Axis: | 2.875 in |

Standards

| | |
|-------------------------|------------------|
| NEC/(UL) Specification: | PV, RHW-2, USE-2 |
| UL AWM Style: | N/A |
| Military Specification: | 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 | UPC | Length | Footnote |
|---------------|-------|--------------|----------|----------|
| 38210 0101000 | Black | 612825147626 | 1,000 ft | C |
| 38210 0105000 | Black | 612825147633 | 5,000 ft | C |

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

Product Notes

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

History

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| Update and Revision: | Revision Number: 0.293 Revision Date: 04-02-2020 |
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