



**Product:** [38214](#)

UL Type PV Wire, #14 Str TC, XLPO Ins, PVC Jkt, 600V PV 90C Dry/Wet

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### Product Description

UL Type PV Wire, 14AWG (41x30) 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.
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#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	No. of Conductors
14	41x30	TC - Tinned Copper	1

Conductor Count:	1
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##### 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	0.243 in	0.033 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR
2.4 Ohm/1000ft

##### Current

Element	Max. Recommended Current [A]
Single Conductor in Free Air @ 30C Ambient	35 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:	36 lbs/1000ft
Max. Pull Tension:	53.5 lbs
Min. Bend Radius/Minor Axis:	2.4375 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
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## Flammability, LS0H, Toxicity Testing

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

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
38214 0101000	Black	Reel	1,000 ft	612825147657
38214 0105000	Black	Reel	5,000 ft	612825147664

Footnote:	C - CRATE REEL PUT-UP.
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## Product Notes

Notes:	Separator material over conductor.
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## History

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