



Product: [38114](#)

UL Type PV Wire, #14 Str TC, XLPO Ins, 2000V PV 90C Dry/Wet

Request Sample

Product Description

UL Type PV Wire, 14AWG (41x30) Tinned Copper, XLPO Insulation, 2000V PV 90C Dry/Wet USE-2 RHW-2 CSA RW90 1000V 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

Insulation		
Material	Nominal Diameter	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.237 in	0.078 in
XLP, XLPO, XLPE (Thermoset)		

Outer Jacket Material	
Material	
No Jacket	

Electrical Characteristics

Conductor DCR	
Nominal Conductor DCR	
2.4 Ohm/1000ft	

Current	
Element	Max. Recommended Current [A]
Single conductor in free air @ 30 ambient	35.0 A

Voltage		
Non-UL Voltage Rating	UL Description	UL Voltage Rating
600 V	PV, RHW-2	2000 V
	USE-2	600 V RMS

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	34 lbs/1000ft
Max Recommended Pulling Tension:	53.5 lbs

Min Bend Radius/Minor Axis:	2.375 in
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Standards

UL AWM Style:	PV, USE-2, RHW-2
CSA Rating:	1000V, 90C
CSA Type:	RW90
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 CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2009-09-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LS0H, Toxicity Testing

UL Flammability:	VW-1
CSA Flammability:	FT1
UL voltage rating:	2000 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	UPC	Length
38114 0105000	Black	612825147589	5,000 ft

History

Update and Revision:	Revision Number: 0.266 Revision Date: 04-02-2020
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