



Product: <u>38312</u> ☑

UL Type PV Wire, #12 Str TC, XLPO Ins, PVC Jkt, 2000V PV 90C Dry/Wet



Product Description

UL Type PV Wire, 12AWG (65x30) Tinned Copper, XLPO Insulation, PVC Outer Jacket, 2000V 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
Condu	ctor Count:		1

Insulation

Material	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.063 in
XLP, XLPO, XLPE (Thermoset)	

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.285 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 Aair @ 30C Ambient	40 Amps Single Conductor in Free Air

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 Temperature Range:	-40°C To +90°C

Mechanical Characteristics

Bulk Cable Weight:	51.25 lbs/1000ft
Max. Pull Tension:	84.5 lbs

Min. Bend Radius/Minor Axis:	2.875 in	
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Standards

UL AWM Style Compliance:	PV, USE-2, RHW-2
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

UL Flammability:	WW-1
UL voltage rating:	2000 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
38312 0105000	Black	Reel	5,000 ft	612825147732
Footnote:				C - CRATE RE

History

Update and Revision:	Revision Number: 0.239 Revision Date: 05-05-2023

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