

Product Description

UL Type PV Wire, 12AWG (65x30) Tinned Copper, XLPO Insulation, 2000V PV 90C Dry/Wet USE-2 RHW-2 CSA RW90 1000V SUN RES

Technical Specifications

Product Overview

	e Applicatior		s (Overall)	erconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) of the 2008 I
Conduc	tor			
AWG	Stranding	Materi	al No. of Con	luctors
12	65x30	TC - Tinned	Copper 1	
Conduc	ctor Count:		1	
nsulati	on			
	Materia	I	Nominal Diameter	Nominal Wall Thickness
XLP, X	LPO, XLPE	(Thermoset)	0.249 in	0.078 in
XIP X	LPO, XLPE	(Thermoset)		

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

Description	Non-UL Voltage Rating	UL Description	UL Voltage Rating	Voltage Rating [V]
CSA	600 V	PV, RHW-2	2000 V	1000 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:	43 lbs/1000ft
Max. Pull Tension:	84.5 lbs
Min. Bend Radius/Minor Axis:	2.5 in

Standards

UL AWM Style Compliance:

PV, USE-2, RHW-2

CSA Rating:	1000V, 90C
CSA Type:	RW90
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

Yes

No

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

Plenum/Non-Plenum

Plenum	(V/NI)·	

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
38112 0105000	Black	Reel	5,000 ft	612825147572
Footnote:				C - CRATE RE
History				
Update and Rev	ision:			Revision Num

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