



Part Number: 38112

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

Request Sample

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

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
12	65x30	TC - Tinned Copper	1
Conductor Count:			1
Conductor Size:			12 AWG

Insulation		
Material	Nominal Diameter	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.249 in	0.078 in
XLPE - Cross Linked Polyethylene		

Outer Jacket Material

Material
No Jacket

Electrical Characteristics

Conductor DCR	
Nominal Conductor DCR	
1.5 Ohm/1000ft	

Current	
Element	Max. Recommended Current [A]
Single conductor in free air @ 30 ambient	40.0 A

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 Temp Range:	-40°C To +90°C

Mechanical Characteristics

Bulk Cable Weight:	43 lbs/1000ft
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Max Recommended Pulling Tension:	84.5 lbs
Min Bend Radius/Minor Axis:	2.5 in

Standards

UL AWM Style:	PV, USE-2, RHW-2
CSA Rating:	1000V, 90C
CSA AWM Specification:	RW90
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
CA Prop 65 (CJ for Wire & Cable):	Yes
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	Footnote
38112 0105000	Black	C

Footnote:	C - CRATE REEL PUT-UP.
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