



Product: [38108](#)

UL Type PV Wire, #8 Str TC, XLPO Ins, 2000V PV 90C Dry/Wet

Request Sample

Product Description

UL Type PV Wire, 8AWG (133(7x19)x29) Tinned Copper, XLPO Insulation, 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.
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Physical Characteristics (Overall)

Conductor			
AWG	Stranding	Material	No. of Conductors
8	133x29	TC - Tinned Copper	1
Conductor Count:		1	

Insulation		
Material	Nominal Diameter	Nominal Wall Thickness
Paper Tape	0.35 in	0.089 in
XLPE, XLPO, XLPE (Thermoset)		

Outer Jacket Material

Material
No Jacket

Electrical Characteristics

Conductor DCR	
Nominal Conductor DCR	
0.61 Ohm/1000ft	

Current	
Element	Max. Recommended Current [A]
Single conductor in free air @ 30 ambient	80.0 A

Voltage		
UL Description	UL Voltage Rating	Voltage Rating [V]
PV, RHW-2	2000 V	600V
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:	94 lbs/1000ft
Max Recommended Pulling Tension:	213 lbs

Min Bend Radius/Minor Axis:	3.5 in
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Standards

UL AWM Style:	PV, USA-2, RHW-2
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, LSOH, Toxicity Testing

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

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	UPC	Length	Footnote
38108 0105000	Black	612825147534	5,000 ft	C
Footnote:			C - CRATE REEL PUT-UP.	

History

Update and Revision:	Revision Number: 0.252 Revision Date: 04-02-2020
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