



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.

Physical Characteristics (Overall)

Conductor

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

Insulation

Material		Nominal Diamete	Nominal Wall Thickness
XLP, XLPO, XLF	XLP, XLPO, XLPE (Thermoset)		0.089 in
Table Notes:		Paper Tape Separator	

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR 0.61 Ohm/1000ft

Current

Element	Max. Recommended Current [A]
Single Conductor in Free Aair @ 30C Amb	ient 80 Amps Single Conductor in Free Air

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 Temperature Range:	-40°C To +90°C

Mechanical Characteristics

Bulk Cable Weight:	94 lbs/1000ft
Max. Pull Tension:	213 lbs
Min. Bend Radius/Minor Axis:	3.5 in

Standards

UL AWM Style Compliance:	PV, USA-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:	Yes

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
38108 0105000	Black Reel 5,000 ft	612825147534
note:		C - CRATE F

History

Update and Revision:	Revision Number: 0.498 Revision Date: 07-10-2024

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