Product: 38308 ⧉

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

⁘ Request Sample

Product Description

UL Type PV Wire, 8AWG (133(7x19)x29) 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
8	133x29	TC - Tinned Copper	1
Conductor Count:		1	

Insulation

Material	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.073 in
XLP, XLPO, XLPE (Thermoset)	

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.384 in	0.033 in

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

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 Temp Range:	-40°C To +90°C

Mechanical Characteristics

Bulk Cable Weight:	96 lbs/1000ft
Max Recommended Pulling Tension:	213 lbs

Min Bend Radius/Minor Axis:	3.875 in

Standards

UL AWM Style:	PV, USE-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

Flammability, LS0H, Toxicity Testing

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

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
38308 0105000	Black	Reel	5,000 ft	612825147701

Footnote:	C - CRATE REEL PUT-UP.

History

Update and Revision:	Revision Number: 0.269 Revision Date: 04-28-2020

Mouser Electronics

Authorized Distributor

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[Belden Wire & Cable](#):
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