



Part Number: 38108

UL Type PV Wire, (1) 8 AWG (133x29) TC, XLPE, 2000V, 90°C

[Request Sample](#)

Product Description

One 8 AWG stranded (133x29) tinned copper conductors, cross-linked polyethylene insulation.

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
Conductor Size:	8 AWG

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.35 in	0.089 in
Paper tape		

Outer Jacket Material

Material
No Jacket

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
0.61 Ohm/1000ft

Shielding:	Unshielded
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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
CA Prop 65 (CJ for Wire & Cable):	Yes
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	Footnote
38108 0105000	Black	C

Footnote:	C - CRATE REEL PUT-UP.
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