



Part Number: 38110

UL Type PV Wire, (1) 10 AWG (105x30) TC, XLPE, 2000V, 90°C

[Request Sample](#)

Product Description

One 10 AWG stranded (105x30) 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
10	105x34	TC - Tinned Copper	1

Conductor Count:	1
Conductor Size:	10 AWG

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.282 in	0.078 in
XLPE - Cross Linked Polyethylene		

Outer Jacket Material

Material
No Jacket

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
0.91 Ohm/1000ft

Shielding:	Unshielded
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Current

Element	Max. Recommended Current [A]
Single conductor in free air @ 30 ambient	55 amps

Voltage

Description	UL Description	UL Voltage Rating	Voltage Rating [V]
CSA	PV, RHW-2	2000 V	CSA - 1000 V
	USE-2	600 V RMS	

Temperature Range

UL Temp Rating:	90°C Wet/Dry
Operating Temp Range:	-40°C To +90°C

Mechanical Characteristics

Bulk Cable Weight:	60 lbs/1000ft
Max Recommended Pulling Tension:	136.5 lbs

Min Bend Radius/Minor Axis:	2.75 in
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Standards

NEC/(UL) Specification:	PV, RHW-2, USE-2
UL AWM Style:	N/A
CSA Rating:	1000V, 90C
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 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
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
38110 0105000	Black	C

Footnote:	C - CRATE REEL PUT-UP.
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