



Part Number: 38218

UL Type PV Wire, (1) 18 AWG (16x30) TC, XLPE/PVC, 600V, 90°C

[Request Sample](#)

Product Description

One 18 AWG stranded (16x30) tinned copper conductors, cross-linked polyethylene insulation, PVC jacket.

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
18	16x30	TC - Tinned Copper	1

Conductor Count:	1
Conductor Size:	18 AWG

Insulation

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.048 in
XLPE - Cross Linked Polyethylene	

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.215 in	0.033 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
6 Ohm/1000ft

Shielding:	Unshielded
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Current

Element	Max. Recommended Current [A]
Single conductor in free air @ 30 ambient	18 amps

Voltage

UL Voltage Rating
600 V

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	24 lbs/1000ft
Max Recommended Pulling Tension:	21 lbs
Min Bend Radius/Minor Axis:	2.125 in

Standards

NEC/(UL) Specification:	PV
UL AWM Style:	N/A
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
UL voltage rating:	600 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Footnote
38218 0105000	Black	C

Footnote:	C - CRATE REEL PUT-UP.
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