



**Product:** [38318](#)

UL Type PV Wire, #18 Str TC, XLPO Ins, PVC Jkt, 2000V PV 90C Dry/Wet

[Request Sample](#)

**Product Description**

UL Type PV Wire, 18AWG (16x30) 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.
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**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	No. of Conductors
18	16x30	TC - Tinned Copper	1

Conductor Count:	1
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**Insulation**

Material	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.063 in
XLP, XLPO, XLPE (Thermoset)	

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.245 in	0.033 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
6 Ohm/1000ft

**Current**

Element	Max. Recommended Current [A]
Single conductor in free air @ 30 ambient	18 Amps Single Conductor in Free Air

**Voltage**

UL Voltage Rating
2000 V

**Temperature Range**

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

**Mechanical Characteristics**

Bulk Cable Weight:	30 lbs/1000ft
Max. Pull Tension:	21 lbs
Min Bend Radius/Minor Axis:	2.5 in

## Standards

UL AWM Style Compliance:	PV
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 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
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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	Putup Type	Length	UPC
38318 0105000	Black	Reel	5,000 ft	612825147763

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.156 Revision Date: 07-26-2020
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