

# Product: <u>38118</u> 🖄 UL Type PV Wire, #18 Str TC, XLPO Ins, 2000V PV 90C Dry/Wet Request Sample

#### **Product Description**

UL Type PV Wire, 18AWG (16x30) Tinned Copper, XLPO Insulation, 2000V PV 90C Dry/Wet SUN RES

#### **Technical Specifications**

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Produ	uct Over	view			
Suitab	le Applicatio	ns:		Interconne	nection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) of the 2008 NEC
Physi	ical Char	acteristics	s (Overall)		
Condu	ctor				
AWG	Stranding	Materi	al No. of	Conductors	rs
18	16x30	TC - Tinned	Copper 1		
Condu	ctor Count:			1	
Insulat	ion				
	Materia	al	Nominal Diam	eter Nomin	inal Wall Thickness
XLP, X	KLPO, XLPE	(Thermoset)	0.209 in	0.078 i	3 in
XLP, X	KLPO, XLPE	(Thermoset)			
	rical Cha	racteristic	s		
	n <mark>al Conduct</mark> n/1000ft	or DCR			
Curren	t				

Element	Max. Recommended Current [A]
Single Conductor in Free Aair @ 30C Ambient	18 Amps Single Conductor in Free Air

#### Voltage

UL Voltage Rating 2000 V

#### **Temperature Range**

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

### **Mechanical Characteristics**

Bulk Cable Weight:	22 lbs/1000ft
Max. Pull Tension:	21 lbs
Min. Bend Radius/Minor Axis:	2.125 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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes
Suitability	

## Flammability, LS0H, Toxicity Testing

Suitability - Sunlight Resistance:

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

#### Plenum/Non-Plenum

Plenum (Y/N):	No

#### **Related Part Numbers**

Variants				
ltem #	Color	Put-Up Type	Length	UPC
38118 0105000	Black	Reel	5,000 ft	612825147602
Footnote:				C - CRATE RE
story				
Indate and Revi	sion:			Revision Num

Update and Revision:

Yes

Revision Number: 0.171 Revision Date: 05-05-2023

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