



**Product: 38218** ☑

UL Type PV Wire, #18 Str TC, XLPO Ins, PVC Jkt, 600V PV 90C Dry/Wet

# Request Sample

## **Product Description**

UL Type PV Wire, 18AWG (16x30) Tinned Copper, XLPO Insulation, PVC Outer Jacket, 600V 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.

#### **Physical Characteristics (Overall)**

#### Conductor

AWG	Stranding	Material	No. of Conductors
18	16x30	TC - Tinned Copper	1
Condu	uctor Count:		1

#### Insulation

Material	Nominal Wall Thickness
XLP, XLPO, XLPE (Thermoset)	0.048 in
XLP, XLPO, XLPE (Thermoset)	

### Outer Jacket

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

# Current

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

# Voltage

UL Voltage Rating

## **Temperature Range**

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

### **Mechanical Characteristics**

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

#### **Standards**

NEC/(UL) Compliance:	PV
UL AWM Style Compliance:	N/A
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)
MII Order #39 (China RoHS):	Yes

#### Suitability

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Suitability - Sunlight Resistance:	Yes		

## Flammability, LS0H, Toxicity Testing

UL Flammability:	VW-1
UL voltage rating:	600 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N):	No	

#### **Related Part Numbers**

#### Variants

Item #	Color	Put-Up Type	Length	UPC
38218 0105000	Black	Reel	5,000 ft	612825147695
ootnote:				C - CRATE F

### **Product Notes**

Notes:	Separator material over conductor.	

#### History

Update and Revision:	Revision Number: 0.368 Revision Date: 05-05-2023

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