



Product: [38218](#) 

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

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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.
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Construction Details

Conductor

Size	Stranding	Material
18	16x30	TC - Tinned Copper

Insulation

Material	Nom. Thickness
XLP, XLPO, XLPE (Thermoset)	0.048 in (1.2 mm)
XLP, XLPO, XLPE (Thermoset)	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.033 in (0.84 mm)	0.215 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
6 Ohm/1000ft (20 Ohm/km)	18 Amps Single Conductor in Free Air

Voltage

UL Voltage Rating
600 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C Wet/Dry	-40°C To +90°C

Max. Pull Tension:	21 lbs (9.5 kg)
Bulk Cable Weight:	24 lbs/1000ft (36 kg/km)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance
Flammability / Reaction to Fire:	VW-1
NEC / UL Compliance:	PV
AWM Compliance:	N/A

Military Compliance:	N/A
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)

Product Notes

Notes:	Separator material over conductor.
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History

Update and Revision:	Revision Number: 0.519 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
38218 0105000	Black	Reel	5,000 ft	612825147695	C

Footnote:	C - CRATE REEL PUT-UP.
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