



Product: [38118](#) 

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

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Product Description

UL Type PV Wire, 18AWG (16x30) Tinned Copper, XLPO Insulation, 2000V PV 90C Dry/Wet 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	Nom. Insulation Diameter
XLP, XLPO, XLPE (Thermoset)	0.078 in (2.0 mm)	0.209 in (5.31 mm)
XLP, XLPO, XLPE (Thermoset)		

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
2000 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C	-40°C To +90°C

Max. Pull Tension:	21 lbs (9.5 kg)
Bulk Cable Weight:	22 lbs/1000ft (33 kg/km)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance
Flammability / Reaction to Fire:	VW-1
AWM Compliance:	PV
Military Compliance:	N/A
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)

History

Update and Revision:	Revision Number: 0.176 Revision Date: 01-15-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
38118 0105000	Black	Reel	5,000 ft	612825147602	C

Footnote:	C - CRATE REEL PUT-UP.
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