



Product: [38312](#) 

UL Type PV Wire, #12 Str TC, XLPO Ins, PVC Jkt, 2000V PV 90C Dry/Wet

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Product Description

UL Type PV Wire, 12AWG (65x30) 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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Construction Details

Conductor

Size	Stranding	Material
12	65x30	TC - Tinned Copper

Insulation

Material	Nom. Thickness
XLP, XLPO, XLPE (Thermoset)	0.063 in (1.6 mm)
XLP, XLPO, XLPE (Thermoset)	

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.033 in (0.84 mm)	0.285 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
1.5 Ohm/1000ft (4.9 Ohm/km)	40 Amps Single Conductor in Free Air

Voltage

UL Voltage Rating	Voltage Rating
2000 V (PV, RHW-2), 600 V RMS (USE-2)	600 V

Mechanical Characteristics

Temperature

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

Max. Pull Tension:	84.5 lbs (38.3 kg)
Bulk Cable Weight:	51.25 lbs/1000ft (76.27 kg/km)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance
Flammability / Reaction to Fire:	VW-1
AWM Compliance:	PV, USE-2, RHW-2
Military Compliance:	N/A

History

Update and Revision:	Revision Number: 0.331 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
38312 0105000	Black	Reel	5,000 ft	612825147732	C

Footnote:	C - CRATE REEL PUT-UP.
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