



Product: [38108](#) 

UL Type PV Wire, #8 Str TC, XLPO Ins, 2000V PV 90C Dry/Wet

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Product Description

UL Type PV Wire, 8AWG (133(7x19)x29) Tinned Copper, XLPO Insulation, 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
8	133x29	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter
XLP, XLPO, XLPE (Thermoset)	0.089 in (2.3 mm)	0.35 in (8.9 mm)

Insulation Table Notes:	Paper Tape Separator
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Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
0.61 Ohm/1000ft (2.0 Ohm/km)	80 Amps Single Conductor in Free Air

Voltage

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

Mechanical Characteristics

Temperature

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

Max. Pull Tension:	213 lbs (96.6 kg)
Bulk Cable Weight:	94 lbs/1000ft (140 kg/km)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance
Flammability / Reaction to Fire:	VW-1
AWM Compliance:	PV, USA-2, RHW-2
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: 0.499 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
38108 0105000	Black	Reel	5,000 ft	612825147534	C

Footnote:	C - CRATE REEL PUT-UP.
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