



Product: [38018](#) 

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

 [Request Sample](#)

Product Description

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

Construction Details

Conductor

Size	Stranding	Material
18	16x30	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter
XLP, XLPO, XLPE (Thermoset)	0.063 in (1.6 mm)	0.179 in (4.55 mm)

Insulation Table Notes:	Paper Tape Separator
-------------------------	----------------------

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	-40°C To +90°C

Max. Pull Tension:	21 lbs (9.5 kg)
Bulk Cable Weight:	17 lbs/1000ft (25 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: 0.525 Revision Date: 09-07-2025
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
38018 0105000	Black	Reel	5,000 ft	612825147527

© 2026 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.