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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**Part Number: 38018**

UL Type PV Wire, (1) 18 AWG (16x30) TC, XLPE, 600V, 90°C

[Request Sample](#)

**Product Description**

One 18 AWG stranded (16x30) tinned copper conductors, cross-linked polyethylene insulation.

**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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**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	No. of Conductors
18	16x30	TC - Tinned Copper	1

Conductor Count:	1
Conductor Size:	18 AWG

**Insulation**

Material	Nominal Diameter	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.179 in	0.063 in
Paper tape		

**Outer Jacket Material**

<b>Material</b>
No Jacket

**Electrical Characteristics**

**Conductor DCR**

<b>Nominal Conductor DCR</b>
6 Ohm/1000ft

Shielding:	Unshielded
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**Current**

Element	Max. Recommended Current [A]
Single conductor in free air @ 30 ambient	18.0 A

**Voltage**

<b>UL Voltage Rating</b>
600 V

**Temperature Range**

UL Temp Rating:	90°C
Operating Temp Range:	-40°C To +90°C

**Mechanical Characteristics**

Bulk Cable Weight:	17 lbs/1000ft
Max Recommended Pulling Tension:	21 lbs
Min Bend Radius/Minor Axis:	1.875 in

## Standards

UL AWM Style:	PV
Military Specification:	N/A

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2010-10-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Sunlight Resistance:	Yes
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## Flammability, LSOH, Toxicity Testing

UL Flammability:	VW-1
UL voltage rating:	600 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color
38018 0105000	Black

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