



# 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.

# **Physical Characteristics (Overall)**

#### Conductor

AWG	Stranding	Material	No. of Conductors
18	16x30	TC - Tinned Copper	1
Condu	ctor Count:		1
Condu	ictor 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



### **Electrical Characteristics**

### Conductor DCR

Nominal Conductor DCR
6 Ohm/1000ft
Shielding:

Shielding: Unshielded

### Current

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

# Voltage

UL Voltage Rating

# **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
Sullability - Sullight Resistance.	165

# Flammability, LS0H, Toxicity Testing

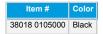
UL Flammability:	VW-1
UL voltage rating:	600 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N):	No			
---------------	----	--	--	--

### **Part Number**

#### Variants



#### © 2018 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.