

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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38318 Hook-up/Lead - UL Type PV Wire



For more Information
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1-800-Belden1



General Description:

18 AWG stranded (16x30) tinned copper conductors, XLPE insulation, non-integrally PVC jacketed, sunlight resistant, photovoltaic wire.

Usage (Overall)

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:

# Conductors	AWG	Stranding	Conductor Material
1	18	16x30	TC - Tinned Copper

Total Number of Conductors:

1

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
XLPE - Cross Linked Polyethylene	0.063

Separator

Separator Material over Conductor:

Y

Jacket

Jacket Material:

PVC - Polyvinyl Chloride

Jacket Thickness:

.033

Overall Cable

Overall Nominal Diameter:

0.245 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:

-40°C To +90°C

UL Temperature Rating:

90°C Wet/Dry

Bulk Cable Weight:

30 lbs/1000 ft.

Max. Recommended Pulling Tension:

21 lbs.

Min. Bend Radius/Minor Axis:

2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

UL Rating:

2000V, 90C

UL Type:

PV

EU Directive 2011/65/EU (RoHS II):

Yes

EU Directive 2000/53/EC (ELV):

Yes

EU Directive 2002/95/EC (RoHS):

Yes

EU RoHS Compliance Date (mm/dd/yyyy):

09/01/2009

EU Directive 2002/96/EC (WEEE):

Yes

EU Directive 2003/11/EC (BFR):

Yes

CA Prop 65 (CJ for Wire & Cable):

Yes

MII Order #39 (China RoHS):

Yes

Flame Test

UL Flame Test:

VW-1

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Suitability

Sunlight Resistance: Yes

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
6.000

Max. Operating Voltage - UL:

Voltage
2000 V RMS

Max. Recommended Current:

Description	Current
Single conductor in free air @ 30 ambient	18 amps

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
38318 0105000	5,000 FT	160.000 LB	BLACK	C	#18 XLPE PVC

Notes:

C = CRATE REEL PUT-UP.

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