

## 38312 Hook-up/Lead - UL Type PV Wire

For more Information  
please call

1-800-Belden1



### Description:

12 AWG stranded (65x30) 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	12	65x30	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:** 0.285 in.

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -40°C To +90°C

**UL Temperature Rating:** 90°C Wet/Dry

**Bulk Cable Weight:** 51.250 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 84.500 lbs.

**Min. Bend Radius/Minor Axis:** 2.875 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**UL Rating:** 2000V, 90C

**UL Type:** PV, USE-2, RHW-2

**EU Directive 2000/53/EC (ELV):** Yes

**EU Directive 2002/95/EC (RoHS):** Yes

**EU RoHS Compliance Date (mm/dd/yyyy):** 10/01/2010

**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
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### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.500

### Max. Operating Voltage - UL:

Voltage	Description
2000 V RMS	PV, RHW-2
600 V RMS	USE-2

### Max. Recommended Current:

Description	Current
Single conductor in free air @ 30 ambient	40 amps

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
38312 0101000	1,000 FT	55.000 LB	BLACK	C	#12 XLPE PVC
38312 0105000	5,000 FT	270.000 LB	BLACK	C	#12 XLPE PVC

### Notes:

C = CRATE REEL PUT-UP.

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