

# Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

**BELDEN**  
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38010 Hook-up/Lead - UL Type PV Wire



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1-800-Belden1



## Description:

10 AWG stranded (105x30) tinned copper conductors, XLPE insulation, 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.
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## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Conductors	AWG	Stranding	Conductor Material
1	10	105x30	TC - Tinned Copper

Total Number of Conductors:	1
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### Insulation

#### Insulation Material:

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

### Separator

Separator Material over Conductor:	Paper tape
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### Overall Cable

Overall Nominal Diameter:	0.252 in.
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## Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +90°C
UL Temperature Rating:	90°C Wet/Dry
Bulk Cable Weight:	54 lbs/1000 ft.
Max. Recommended Pulling Tension:	136.500 lbs.
Min. Bend Radius/Minor Axis:	2.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

UL Rating:	600V, 90C
UL Type:	PV, USE-2, RHW-2
CSA Rating:	1000V, 90C
CSA Type:	RW90
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

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CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

## Flame Test

UL Flame Test: VW-1

CSA Flame Test: FT1

## Suitability

Sunlight Resistance: Yes

## Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
0.910

Max. Operating Voltage - UL:

Voltage  
600 V RMS

Max. Operating Voltage - Other:

Voltage	Description
1000V RMS	CSA

Max. Recommended Current:

Description	Current
Single conductor in free air @ 30 ambient	55 amps

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
38010 0101000	1,000 FT	55.000 LB	BLACK		#10 STR XLPE BLK
38010 0105000	5,000 FT	275.000 LB	BLACK		#10 STR XLPE BLK

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