

# Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

**BELDEN**  
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38212 Hook-up/Lead - UL Type PV Wire



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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.
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## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Conductors	AWG	Stranding	Conductor Material
1	12	65x30	TC - Tinned Copper

Total Number of Conductors:	1
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### Insulation

#### Insulation Material:

Insulation Material	Wall Thickness (in.)
XLPE - Cross Linked Polyethylene	0.048

### Separator

Separator Material over Conductor:	Y
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### Jacket

Jacket Material:	PVC - Polyvinyl Chloride
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Jacket Thickness:	.033
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### Overall Cable

Overall Nominal Diameter:	0.255 in.
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## Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +90°C
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UL Temperature Rating:	90°C Wet/Dry
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Bulk Cable Weight:	44 lbs/1000 ft.
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Max. Recommended Pulling Tension:	84.500 lbs.
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Min. Bend Radius/Minor Axis:	2.500 in.
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## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

UL Rating:	600V, 90C
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UL Type:	PV, USE-2, RHW-2
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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	09/01/2009
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EU Directive 2002/96/EC (WEEE):	Yes
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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

## Suitability

Sunlight Resistance: Yes

## Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
1.500

### Max. Operating Voltage - UL:

Voltage  
600 V RMS

### 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
38212 0101000	1,000 FT	48.000 LB	BLACK	C	#12 XLPE PVC
38212 0105000	5,000 FT	235.000 LB	BLACK	C	#12 XLPE PVC

### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-24-2010

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