

# Detailed Specifications & Technical Data



## METRIC MEASUREMENT VERSION

## 38210 Hook-up/Lead - UL Type PV Wire



For more Information  
please call

1-800-Belden1



### General Description:

10 AWG stranded (105x30) 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	10	105x30	TC - Tinned Copper

Total Number of Conductors:

1

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
XLPE - Cross Linked Polyethylene	1.219

#### Separator

Separator Material over Conductor:

Y

#### Jacket

Jacket Material:

PVC - Polyvinyl Chloride

Jacket Thickness:

.033

#### Overall Cable

Overall Nominal Diameter:

7.315 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range:

-40°C To +90°C

UL Temperature Rating:

90°C Wet/Dry

Bulk Cable Weight:

93.757 Kg/Km

Max. Recommended Pulling Tension:

607.179 N

Min. Bend Radius/Minor Axis:

73.025 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

UL Rating:

600V, 90C

UL Type:

PV, USE-2, RHW-2

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/km)
2.986

Max. Operating Voltage - UL:

Voltage
600 V RMS

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
38210 0101000	1,000 FT	67.000 LB	BLACK	C	#10 XLPE PVC
38210 0105000	5,000 FT	330.000 LB	BLACK	C	#10 XLPE PVC

Notes:

C = CRATE REEL PUT-UP.

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