

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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38112 Hook-up/Lead - UL Type PV Wire



For more Information
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1-800-Belden1



Description:

12 AWG stranded (65x30) 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	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	0.078

Separator

Separator Material over Conductor:	Y
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Overall Cable

Overall Nominal Diameter:	0.249 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:	43 lbs/1000 ft.
Max. Recommended Pulling Tension:	84.500 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, 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)
1.500

Max. Operating Voltage - UL:

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

Max. Operating Voltage - Other:

Voltage	Description
1000V RMS	CSA

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
38112 0101000	1,000 FT	44.000 LB	BLACK		#12 STR XLPE BLK
38112 0105000	5,000 FT	220.000 LB	BLACK	C	#12 STR XLPE BLK

Notes:

C = CRATE REEL PUT-UP.

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