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1-800-Belden1



### General Description:

14 AWG stranded (41x30) 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	14	41x30	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:** 6.172 mm

### Mechanical Characteristics (Overall)

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

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

**Bulk Cable Weight:** 53.575 Kg/Km

**Max. Recommended Pulling Tension:** 237.979 N

**Min. Bend Radius/Minor Axis:** 61.913 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
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**Plenum/Non-Plenum**

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

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
7.874

**Max. Operating Voltage - UL:**

<b>Voltage</b>
600 V RMS

**Max. Recommended Current:**

Description	Current
Single conductor in free air @ 30 ambient	35 amps

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
38214 0105000	5,000 FT	185.000 LB	BLACK	C	#14 XLPE PVC

**Notes:**

C = CRATE REEL PUT-UP.

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