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1-800-Belden1



### General Description:

14 AWG stranded (41x30) 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.

### 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 (in.)
XLPE - Cross Linked Polyethylene	0.063

#### Separator

**Separator Material over Conductor:** Paper tape

#### Overall Cable

**Overall Nominal Diameter:** 0.207 in.

### Mechanical Characteristics (Overall)

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

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

**Bulk Cable Weight:** 28 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 53.500 lbs.

**Min. Bend Radius/Minor Axis:** 2.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>UL Rating:</b>	600V, 90C
<b>UL Type:</b>	PV, USE-2, RHW-2
<b>CSA Rating:</b>	1000V, 90C
<b>CSA Type:</b>	RW90
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	09/01/2009
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	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)
2.400

**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	35 amps

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
38014 0105000	5,000 FT	150.000 LB	BLACK	C	#14 STR XLPE BLK

**Notes:**  
C = CRATE REEL PUT-UP.

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