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1-800-Belden1



### General Description:

8 AWG stranded (133x29) 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	8	133x29	TC - Tinned Copper

**Total Number of Conductors:** 1

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
XLPE - Cross Linked Polyethylene	0.073

#### Separator

**Separator Material over Conductor:** Y

#### Jacket

**Jacket Material:** PVC - Polyvinyl Chloride

**Jacket Thickness:** .033

#### Overall Cable

**Overall Nominal Diameter:** 0.384 in.

### Mechanical Characteristics (Overall)

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

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

**Bulk Cable Weight:** 96 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 213 lbs.

**Min. Bend Radius/Minor Axis:** 3.875 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

**UL Rating:** 2000V, 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

**Suitability**

Sunlight Resistance: Yes

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)**

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
0.610

**Max. Operating Voltage - UL:**

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

**Max. Recommended Current:**

Description	Current
Single conductor in free air @ 30 ambient	80 amps

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
38308 0105000	5,000 FT	520.000 LB	BLACK	C	#8 XLPE PVC

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

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