

## 38108 Hook-up/Lead - UL Type PV Wire

For more Information  
please call

1-800-Belden1

**Description:**

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

**Total Number of Conductors:**

1

**Insulation****Insulation Material:**

| Insulation Material              | Wall Thickness (in.) |
|----------------------------------|----------------------|
| XLPE - Cross Linked Polyethylene | 0.089                |

**Separator****Separator Material over Conductor:**

Paper tape

**Overall Cable****Overall Nominal Diameter:**

0.350 in.

**Mechanical Characteristics (Overall)**

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

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

**Bulk Cable Weight:** 94 lbs/1000 ft.

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

**Min. Bend Radius/Minor Axis:** 3.500 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

**UL Rating:** 2000V, 90C

**UL Type:** PV, USE-2, RHW-2

**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

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**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       |
|---------------|----------|-------------|-------|-------|-----------------|
| 38108 0101000 | 1,000 FT | 99.000 LB   | BLACK |       | #8 STR XLPE BLK |
| 38108 0105000 | 5,000 FT | 495.000 LB  | BLACK | C     | #8 STR XLPE BLK |

**Notes:**

C = CRATE REEL PUT-UP.

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