# Detailed Specifications & Technical Data

**ENGLISH MEASUREMENT VERSION**

**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 |

### 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 (Install)/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 |

### Flame Test

| | |
|---|---|
| **UL Flame Test:** | VW-1 |

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

### 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 |

## Related Documents:

No related documents are available for this product

## 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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