

## 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

|  |                  |
|--|------------------|
| <b>UL Rating:</b>                            | 2000V, 90C       |
| <b>UL Type:</b>                              | PV, USE-2, RHW-2 |
| <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

### 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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#### Как с нами связаться

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