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1-800-Belden1



General Description:

12 AWG stranded (65x30) 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	12	65x30	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: 0.219 in.

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 90°C Wet/Dry

Bulk Cable Weight: 36 lbs/1000 ft.

Max. Recommended Pulling Tension: 84.500 lbs.

Min. Bend Radius/Minor Axis: 2.250 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

UL Rating: 600V, 90C

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

CSA Rating: 1000V, 90C

CSA Type: RW90

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

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)

1.500

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	40 amps

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
38012 0105000	5,000 FT	190.000 LB	BLACK		#12 STR XLPE BLK

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