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1-800-Belden1



General Description:

18 AWG stranded (16x30) 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	18	16x30	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: Y

Jacket

Jacket Material: PVC - Polyvinyl Chloride

Jacket Thickness: .033

Overall Cable

Overall Nominal Diameter: 0.245 in.

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 90°C Wet/Dry

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 21 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

UL Rating: 2000V, 90C

UL Type: PV

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

MIL 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)

6.000

Max. Operating Voltage - UL:

Voltage

2000 V RMS

Max. Recommended Current:

Description	Current
Single conductor in free air @ 30 ambient	18 amps

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
38318 0105000	5,000 FT	160.000 LB	BLACK	C	#18 XLPE PVC

Notes:

C = CRATE REEL PUT-UP.

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