Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

38116 Hook-up/Lead - UL Type PV Wire

For more Information please call

1-800-Belden1

Description:

16 AWG stranded (26x30) 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	16	26x30	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
XLPE - Cross Linked Polyethylene	0.078	0.221

Separator

Separator Material over Conductor:	Y

Overall Cable

Overall Nominal Diameter:	0.221 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +90°C
UL Temperature Rating:	90°C Wet/Dry
Bulk Cable Weight:	27 lbs/1000 ft.
Max. Recommended Pulling Tension:	34 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.250 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

UL Rating:	2000V, 90C
UL Type:	PV
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

Suitability

Sunlight Resistance:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.700

Max. Operating Voltage - UL:

Voltage
2000 V RMS

Max. Recommended Current:

Description	Current
Single conductor in free air @ 30 ambient	24 amps

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
38116 0101000	1,000 FT	29.000 LB	BLACK		#16 STR XLPE BLK
38116 0105000	5,000 FT	140.000 LB	BLACK	C	#16 STR XLPE BLK

Notes:
C = CRATE REEL PUT-UP.

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