

Part Number: 38218

UL Type PV Wire, (1) 18 AWG (16x30) TC, XLPE/PVC, 600V, 90°C



Product Description

One 18 AWG stranded (16x30) tinned copper conductors, cross-linked polyethylene insulation, PVC jacket.

Product Specifications

Technical Specifications

Suitable Applications:	Interconnection wiring of grounded and ungrounded photovoltaic power systems as described in Section 690.31(A) of the 2008 NEC.
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Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Conductors
18	16x30	TC - Tinned Copper	1
Total Number of Conductors:			1

Insulation:

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.048 in
XLPE - Cross Linked Polyethylene	

Stranding:

Lay Length
PV mm

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.215 in	0.033 mm

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR

6 Ohm/1000ft

Current:

Element

Max. Recommended Current [A]

Single conductor in free air @ 30 ambient

18 amps

Voltage:

UL Voltage Rating

600 V RMS

Use

Suitability - Sunlight Resistance:

Yes

Max Recommended Pulling Tension:

21 lbs

Safety

UL Flammability:

VW-1

Temperature Range

Operating Temp Range:

-40°C To +90°C

UL Temp Rating:

90°C Wet/Dry

Mechanical Characteristics

Min Bend Radius/Minor Axis:

2.125 in

Part Number

Plenum (Y/N):

No

Standards

CA Prop 65 (CJ for Wire & Cable):

CA Prop 65 (CJ for Wire & Cable)

MII Order #39 (China RoHS):

MII Order #39 (China RoHS)

UL Rating:

UL Rating

EU Directive Compliance:

EU Directive 2003/11/EC (BFR)

History

Product Variants

Part Number	Color	Put-Up Type	Length
38218 0105000	BLACK	Reel	5000 ft

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