RPVU90 Solar/Photovoltaic

Contact
Inside Sales Representatives
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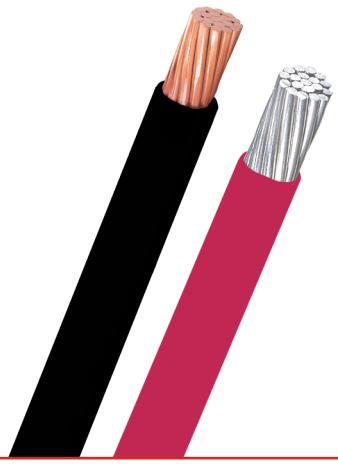
RPVU90 EXELENE® XLPE Insulated Cables 2 kV, 90°C Dry and Wet, -40°C - Aluminum or Copper Conductors



DESCRIPTION

RPVU90 cables offer exceptional performance, easy installation and long-term reliability for DC and AC connections. They link photovoltaic panels on rooftops or solar farms, and also connect them to the array box (if one exists), and to the inverter which transforms DC solar energy into usable AC electricity. These cables have a wet and dry temperature rating of 90°C, are UV resistant, may be direct buried, and are certified as CSA type RPVU90.

Application

Nexans RPVU90 cables may be installed indoors or outdoors, in raceways and conduits, both above and below ground, and may be direct buried. Direct buried installations must comply with CE Code Rules 12-012 and 4-004. They are 90ºC, 2 kV rated, and suitable for use in a photovoltaic system.

Type RPVU90 cables are for use on the DC and AC side of a photovoltaic system, suitable for installation in both wet and dry locations, and may be exposed to sunlight.

Nexans RPVU90 cables are RoHS Compliant.

Construction

Conductor:

Aluminum:

- sizes from #1/0 AWG to 1000 kcmil, stranded
- compact stranded AA-8000 series aluminum conductor material (ACM) per ASTM B801 Class B or ASTM B836

Copper:

- sizes from #14 AWG to 1000 kcmil, solid or stranded
- bare, stranded annealed per ASTM B8 Class B compressed

Insulation:EXELENE® cross-linked polyethylene (XLPE) insulation per CSA C22.2 No. 271. Sunlight resistant as well as heat, moisture and abrasion resistant.

- Cables are CSA certified as Type RPVU90.

- Temperature rating of 90ºC dry and wet

- Marked -40ºC

- May be direct buried

- Sunlight resistant

- RoHS Compliant

Options:

- Class C Stranding (Copper only)

STANDARDS

National CSA C22.2 N° 271;
CSA C22.2 N° 38

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Specifications:

Meets CSA C22.2 No. 271 Photovoltaic Cables

Meets CSA 22.2 No. 38 Thermoset Insulated Wires and Cables

CSA File Number: LL23462 Class 5721 02

CHARACTERISTICS

Construction characteristics	
Insulation	XLPE
Electrical characteristics	
Maximum operating voltage	2000 V
Usage characteristics	
Maximum operating temperature	90 °C
Minimum installation temperature	-40 °C

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RPVU90 SOLAR/PHOTOVOLTAIC

Nexans Ref.	Name	Cond. Dia. (mm)	Size	# of Strands	Conductor Material	Nom. Insul. Thick. [mm]	Insul. Colour	Cable Dia. [mm]	Approx. Net Weight [kg/km]
12009954	10(7) RPVU90 CU BLK 2kV	2.95	10 AWG	7	Copper	1.52	Black	6	69
12013428	10(7) RPVU90 CU RED 2kV	2.95	10 AWG	7	Copper	1.52	Red	6	69
12009956	10(19) RPVU90 CU BLK 2KV	2.95	10 AWG	19	Copper	1.52	Black	6	69
12013393	10(19) RPVU90 CU RED 2KV	2.95	10 AWG	19	Copper	1.52	Red	6	69
12013409	8(19) RPVU90 CU BLK 2kV	3.71	8 AWG	19	Copper	2.03	Black	7.8	112
12013420	8(19) RPVU90 CU RED 2kV	3.71	8 AWG	19	Copper	2.03	Red	7.8	112
12014661	500 RPVU90 AL BLK 2kV	18.70	500 MCM	39	Aluminum	2.79	Black	24.6	887
12014660	500 RPVU90 AL RED 2kV	18.70	500 MCM	39	Aluminum	2.79	Red	24.6	887
12013426	750 RPVU90 AL BLK 2KV	23.10	750 MCM	58	Aluminum	3.18	Black	29.7	1040
12013427	750 RPVU90 AL RED 2KV	23.10	750 MCM	58	Aluminum	3.18	Red	29.7	1040