RPVU90 Solar/Photovoltaic

10(19) RPVU90 CU BLK 2KV



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

STANDARDS

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

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, marked -40ºC, 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.

Options:

- Class C Stranding (Copper only)

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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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CHARACTERISTICS

Construction characteristics	
Conductor Material	Copper
Insulation	XLPE
Insulation Colour	Black
Dimensional characteristics	
Approximate Net Weight	69 kg/km
Cable Diameter	6 mm
Conductor Diameter (mm)	2.95
Conductor size (AWG)	10 AWG
Nominal insulation thickness	1.52 mm
Number of Strands	19
Electrical characteristics	
Maximum operating voltage	2000 V
Usage characteristics	
Maximum operating temperature	90 °C
Minimum installation temperature	-40 °C

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