



# AL XLPE Type RPVU90 2KV

Single Aluminum Conductors, 1000V/2000V, 90°C MAX - 40°C MIN, Sunlight Resistant and FT4 Flame Test Rated

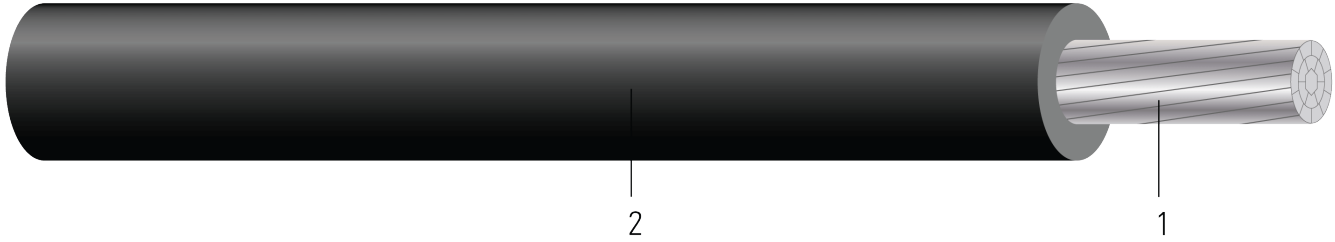


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

- Conductor:** AlumaFlex® Compact Stranded Aluminum Alloy (AA-8176)
- Insulation:** Cross Linked Polyethylene (XLPE)

## APPLICATIONS AND FEATURES:

Single aluminum conductor with low temperature, moisture resisting XLPE (cross linked polyethylene) insulation. Sunlight Resistant. This product meets the current RoHS requirements. No lead is added or used in manufacturing.

## SPECIFICATIONS:

- ASTM B836 Compact Rounded Stranded Aluminum Conductors
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- FT1 Flame Test (1,706 BTU/Hr nominal - Vertical Wire Flame Test)
- RoHS Compliant Lead-Free, Silicone-Free
- AA 8176 Stranded Aluminum Alloy Conductors
- CSA Standard C22.2 No. 271 Photovoltaic Cables

## SAMPLE PRINT LEGEND:

{SQMTR} SOUTHWIRE LL90458 {CSA} XXX KCMIL (XX{mm<sup>2</sup>}) COMPACT AL. --- {ALUMAFLEX}® AA8176 RPVU90 1000V/2000V XLPE FT1 (-40°C) SR DIR BUR RoHS

**Table 1 – Weights and Measurements**

Cond. Size	Strand	Insul. Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C†
AWG/ Kcmil	No.	mil	inch	lb/1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
1000	58	125	1.310	1183	6.5	6000	0.018	0.025	0.037	500

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

\* Strand count meets minimum number per ASTM





**Table 2 – Weights and Measurements (Metric)**

Cond. Size	Strand	Insul. Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C
AWG/Kcmil	No.	mm	mm	kg/km	mm	newton	Ω/km	Ω/km	Ω/km	Amp
1000	58	3.18	33.27	1760	165.10	26700	0.06	0.08	0.1214	500

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

\* Strand count meets minimum number per ASTM

**Stock Code and Color (Other than Black)**

Stock Code	Size AWG	Color
672572	350	Red
663032	600	Red
669289	750	Red

