



AL XLPE Type RPVU90 2KV

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

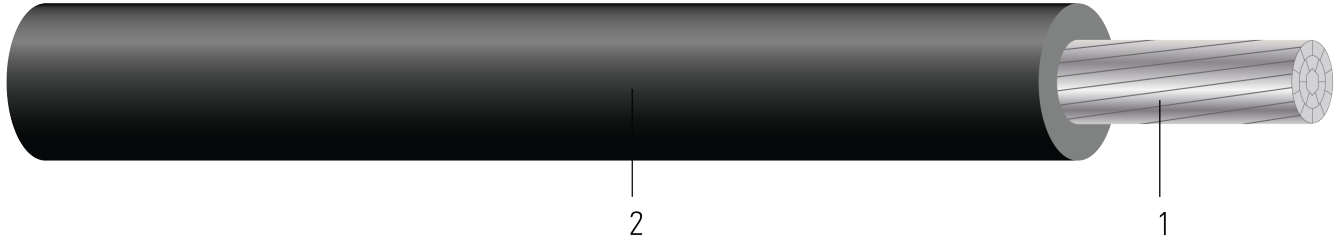


Image not to scale. See Table 1 for dimensions.

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{mm²}) 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

