



## AL XLPE Type RPVU90 2KV

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

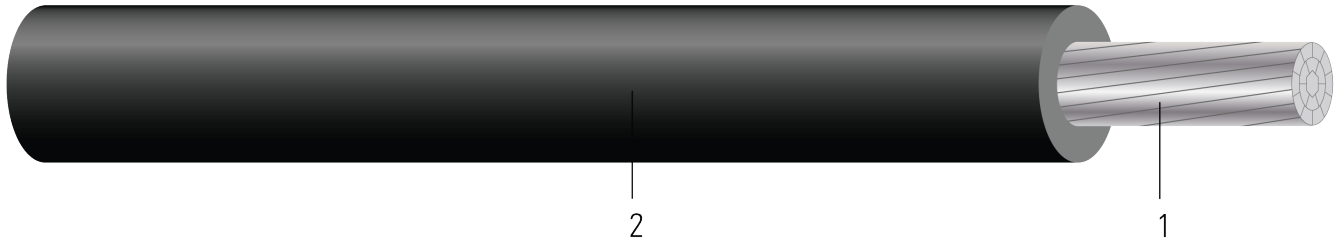


Image not to scale. See Table 1 for dimensions.

### 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**

| Stock Number | 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/<br>Kcmil | No.    | mil              | inch       | lb/1000ft      | inch               | lb               | Ω/1000ft             | Ω/1000ft             | Ω/1000ft                   | Amp                                 |
| 618872       | 300           | 35     | 110              | 0.802      | 423            | 3.2                | 1800             | 0.059                | 0.071                | 0.041                      | 260                                 |

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)**

| Stock Number | 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/<br>Kcmil | No.    | mm               | mm         | kg/km          | mm                 | newton           | Ω/km                 | Ω/km                 | Ω/km                       | Amp                                |
| 618872       | 300           | 35     | 2.79             | 20.37      | 629            | 81.28              | 8010             | 0.19                 | 0.23                 | 0.1345                     | 260                                |

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   |

