

# SIMpull® RWU90 Aluminum 1000 Volt

Single 8000 Series Aluminum Conductor, 1000V Alumaflex Strand, No. 6 AWG to 1000 Kcmil, 90°C MAX -40°C MIN, Sunlight Resistant. SIMpull® technology on sizes #8 and larger. Cable can be installed in conduit without the aid of lubrication.

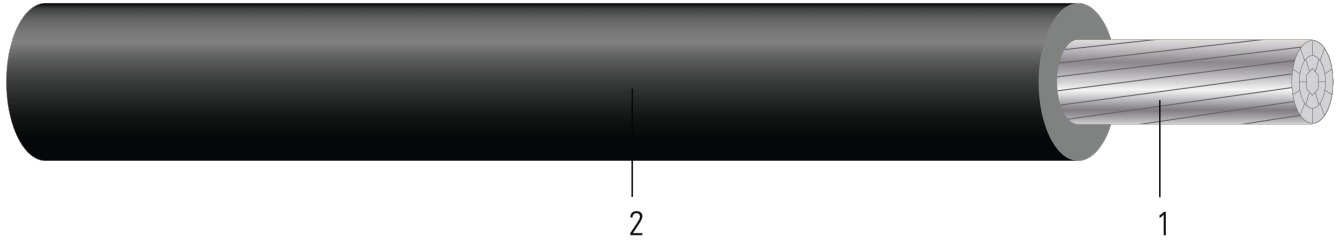


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

- Conductor:** Class B compact stranded bare aluminum per ASTM B800 and ASTM B801 or Single Input Wire (SIW) Compact AL per ASTM B836
- Insulation:** Cross Linked Polyethylene (XLPE)

## APPLICATIONS AND FEATURES:

Southwire's RWU90 is designed for direct earth burial (with protection as required by the inspecting authority). For service entrance above or below ground. The minimum recommended installation temperature is minus 40°C (with suitable handling procedures). Maximum conductor temperature is 90°C. Note: Standard black is sunlight resistant and marked "SR". Standard coloured insulation is not sunlight resistant. SIMpull® technology on sizes #8 and larger. Cable can be installed in conduit without the aid of lubrication.

## SPECIFICATIONS:

- ASTM B800 8000 Series Aluminum Alloy Wire
- ASTM B836 Compact Rounded Stranded Aluminum Conductors
- CSA C22.2 No. 38 Thermoset-insulated wires and cables

## SAMPLE PRINT LEGEND:

{SQMTR} SOUTHWIRE{R} LL90458 {CSA} XXX AWG (XX.X{mm<sup>2</sup>}) COMPACT AL. --- {ALUMAFLEX}{R} AA8176 RWU90 XLPE 1000 VOLTS -40{D}C SR

**Table 1 – Weights and Measurements**

| Stock Number | Cond. Size    | Cond. Number | Strand | Insul. Thickness | Insulation Color | 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/<br>1000ft  | inch               | lb               | Ω/1000ft             | Ω/1000ft             | Ω/1000ft                   | Amp                                 |
| 661721◇      | 6             | 1            | 7      | 70               | RD               | 0.339      | 55             | 1.300              | 157              | 0.674                | 0.812                | 0.051                      | 55                                  |

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    | Cond. Number | Strand | Insul. Thickness | Insulation Color | 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                                |
| 661721◇      | 6             | 1            | 7      | 1.78             | RD               | 8.61       | 82             | 33.02              | 699              | 2.21                 | 2.66                 | 0.1673                     | 55                                 |

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

