



## 1/C AL 1000V RWU90 SIMpull®

Single 8000 Series Aluminum Conductor, 600V Alumaflex Strand, No. 6 AWG to 1000 Kcmil, FT4 Flame Test Rating - (in all colours, sizes 350 KCMIL & larger), 90°C MAX -40°C MIN, Sunlight Resistant. SIM technology on sizes #8 and larger. Cable can be installed in conduit without the aid of lubrication.

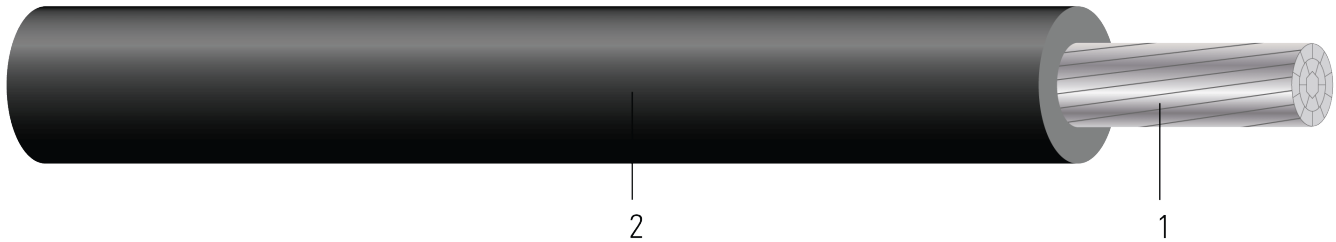


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

- Conductor:** Class B compact stranded 8000 Series aluminum per ASTM B800
- Insulation:** Cross Linked Polyethylene (XLPE)

### APPLICATIONS AND FEATURES:

Southwire's SIMpull® aluminum RWU90 is for open wiring used in raceways (except cabletroughs and ventilated flexible cableways) in dry or wet locations. For open wiring exposed to the weather. Minimum recommended installation temperature minus 40°C (with suitable handling procedures). Maximum conductor temperature 90°C. SIM 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® LL90458 {CSA} XX AWG/KCMIL (XX{mm<sup>2</sup>}) COMPACT AL. --- {ALUMAFLEX}® AA8176 RWU90 XLPE 1000 VOLTS -40°C SR

**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°Ct |
|--------------|------------|--------|------------------|------------|----------------|--------------------|------------------|----------------------|----------------------|----------------------------|-------------------------------------|
|              | AWG/Kcmil  | No.    | mil              | inch       | lb/1000ft      | inch               | lb               | Ω/1000ft             | Ω/1000ft             | Ω/1000ft                   | Amp                                 |
| 568944◇      | 2          | 6      | 70               | 0.438      | 106            | 1.7                | 398              | 0.267                | 0.321                | 0.045                      | 100                                 |

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                                |
| 568944◇      | 2             | 6      | 1.78             | 11.13      | 158            | 43.18              | 1771             | 0.88                 | 1.05                 | 0.1476                     | 100                                |

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

