

## CSA ACWU 90

600V Rating, 8000 Series ACM Aluminum Conductors, CSA Approved For Hazardous Locations, CSA -40°C Low Temperature Rating, CSA Sunlight Resistant, XLPE 90°C Insulation



Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** 8000 Series ACM Aluminum Conductors
2. **Insulation:** Low Temperature Cross-linked Polyethylene Insulation (XLPE)
3. **Grounding Conductors:** Bare Aluminum Bonding Wire in Multi-conductor Cables
4. **Inner Jacket:** Oil Impregnated Kraft Paper Binder
5. **Aarmor:** Aluminum Interlocked Armour (AIA)
6. **Overall Jacket:** Black PVC (optional colours available)

### APPLICATIONS AND FEATURES:

Southwire's ACWU 90 cables are primarily intended for exposed and concealed wiring in dry or wet locations and where exposed to the weather. For use in ventilated, non-ventilated, ladder type cable trays and in all hazardous locations; direct earth burial; service entrance above or below ground.

### SPECIFICATIONS:

- CSA C22.2, No. 51 Armored Cables
- CSA C22.2 No. 174 Cables in Hazardous Locations
- CSA C22.2 No. 0-M91 General Requirements
- CSA LTGG [-40°C] - as per C68.10 - for Cold Bend and Impact rating
- CSA SUN RES - for Sunlight Resistant rating
- CSA AG14 - Acid Gas Compliance
- CSA AWM IB 105°C 600V. FT4-ST1
- CSA Certified File Listing LL90458, CLASS 581801 - Armoured Cable

### SAMPLE PRINT LEGEND:

{SQMTR} SOUTHWIRE {CSA} LL90458 X/C XX AWG AL ACM ACWU90 XLPE -40°C AG14 FT4 SUN. RES. 600V {YYYY}





**Table 1 – Physical and Electrical Data**

| Stock Number | Cond. Size | Cond. Number | Cond. Strands | Diameter Over Cond. | Insul. Thickness | Diameter Over Armor | Approx. OD | Aluminum Weight | Approx. Weight | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Rectance | Min Bending Radius | Allowable Ampacity 75°C | Allowable Ampacity 90°C | Jacket Color |
|--------------|------------|--------------|---------------|---------------------|------------------|---------------------|------------|-----------------|----------------|----------------------|----------------------|--------------------|--------------------|-------------------------|-------------------------|--------------|
|              | AWG        | No.          | strands       | inch                | mil              | inch                | inch       | lb/1000ft       | lb / 1000ft    | Ω /1000ft            | Ω /1000ft            | Ω/1000ft           | inch               | Amp                     | Amp                     |              |
| 566371       | 500        | 4            | 35            | 0.735               | 65               | 2.426               | 2.646      | 2463            | 3330           | 0.035                | 0.044                | 0.039              | 15.8               | 248                     | 280                     | black        |

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  
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

