# 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

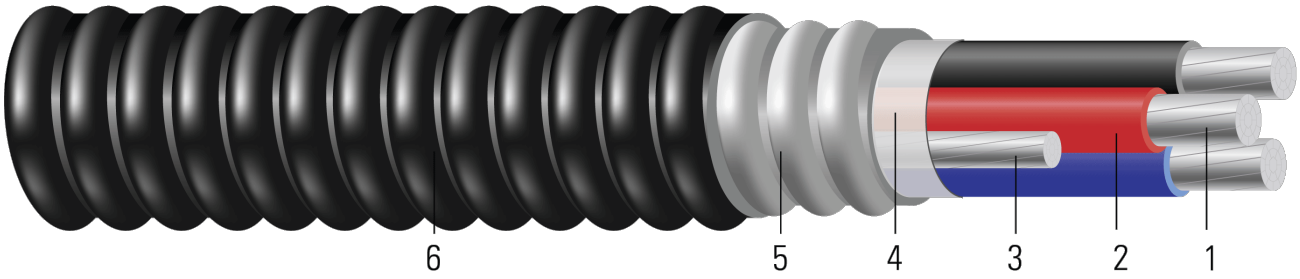



Image not to scale. See Table 1 for dimensions.

## 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. **Armor:** 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}


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## 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 | Jacke Color |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | No. | strands | inch | mil | inch | inch | lb/1000ft | lb / 1000ft | Ω /1000ft | Ω /1000ft | Ω/1000ft | inch | Amp | Amp | |
| 6 AWG | | | | | | | | | | | | | | | | |
| 564182 | 6 | 3 | 7 | 0.169 | 45 | 0.899 | 1.019 | 222 | 376 | 0.674 | 0.812 | 0.051 | 5 | 50 | 55 | 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.


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