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

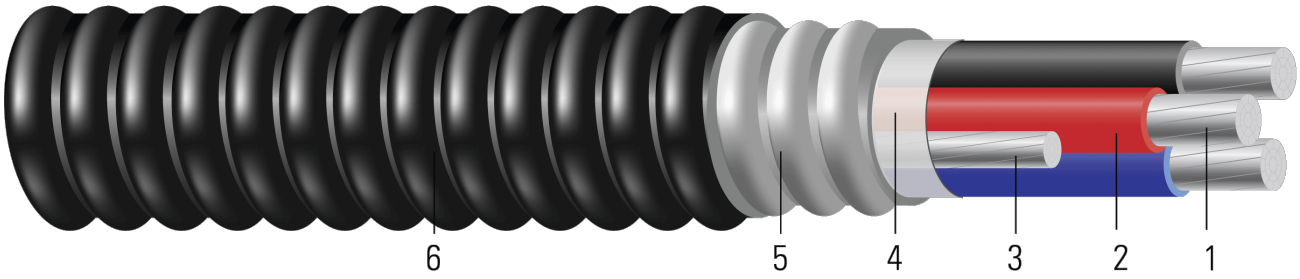


Image not to scale. See Table 1 for dimensions.

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}

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

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	
564205	1	3	8	0.298	55	1.223	1.383	465	754	0.211	0.254	0.046	6.9	100	115	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.

Copyright © 2026 Southwire Company, LLC. All Rights Reserved