



AC90 600 Volt

600V Rating, 8000 Series ACM Aluminum Conductors, CSA Approved For Hazardous Locations, CSA -40°C Low Temperature Rating, T90 90°C Insulation

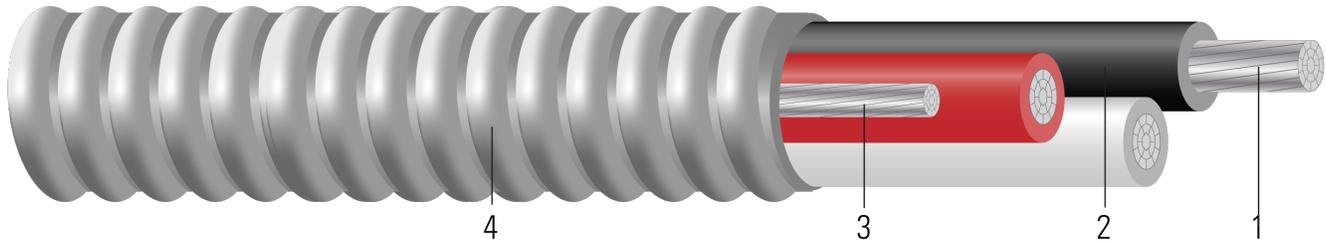


Image not to scale. See Table 1 for dimensions.

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. **Armor:** Aluminum Interlocked Armour (AIA)

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.	Insulation Color	Insul. Thickness	Ground	Diameter Over Armor	Aluminum Weight	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance	Min Bending Radius	Allowable Ampacity At 60°C	Allowable Ampacity At 75°C
	AWG	No.	strands	inch		mil	No. x AWG	inch	lb/1000ft	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch	Amp	Amp
6 AWG																
562384	6	3	7	0.169	BK,WE,RD	45	1 x 8	0.885	225	273	0.674	0.812	0.051	6.2	40	50
2 AWG																
562386	2	3	6	0.268	BK,WE,RD	45	1 x 6	1.087	384	453	0.267	0.321	0.045	7.6	75	90
566599	1	3	8	0.298	BK,WE,RD	55	1 x 6	1.197	466	555	0.211	0.254	0.046	8.4	85	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

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.

