



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

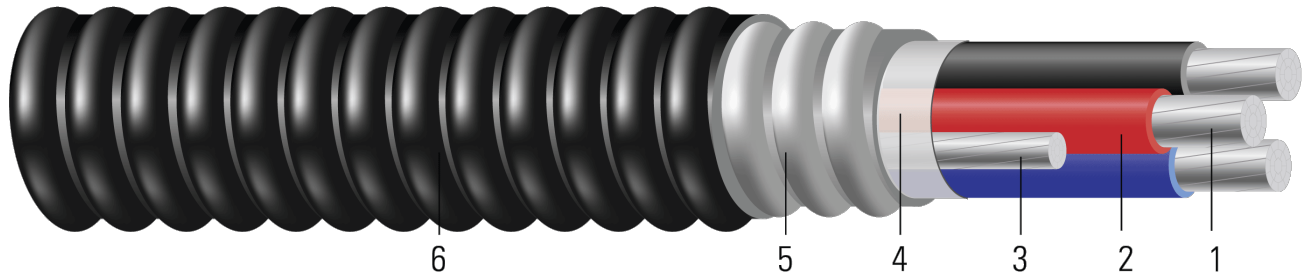


Image not to scale. See Table 1 for dimensions.

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}





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 Reactance	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	
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
566336	6	4	7	0.169	45	0.959	1.079	257	434	0.674	0.812	0.051	5.3	40	44	black
4 AWG																
564183	4	3	7	0.212	45	0.994	1.114	291	467	0.424	0.51	0.048	5.5	65	75	black
566340	4	4	7	0.212	45	1.071	1.231	344	593	0.424	0.51	0.048	6.1	52	60	black
2 AWG																
564184	2	3	6	0.268	45	1.107	1.267	381	631	0.267	0.321	0.045	6.3	90	100	black
566343	2	4	6	0.268	45	1.204	1.364	460	747	0.267	0.321	0.045	6.8	72	80	black
564205	1	3	8	0.298	55	1.223	1.383	465	754	0.211	0.254	0.046	6.9	100	115	black
566346	1	4	8	0.298	55	1.327	1.487	562	897	0.211	0.254	0.046	7.4	80	92	black
564206	1/0	3	10	0.336	55	1.295	1.455	539	847	0.168	0.201	0.044	7.2	120	135	black
566357	1/0	4	10	0.336	55	1.408	1.577	661	1031	0.168	0.201	0.044	7.8	96	108	black
564207	2/0	3	12	0.376	55	1.381	1.548	634	976	0.133	0.16	0.043	7.7	135	150	black
566361	2/0	4	12	0.376	55	1.513	1.703	781	1230	0.133	0.16	0.043	8.5	108	120	black
564208	3/0	3	16	0.422	55	1.483	1.65	750	1122	0.105	0.126	0.042	8.2	155	175	black
566365	3/0	4	16	0.422	55	1.612	1.802	946	1419	0.105	0.126	0.042	9	124	140	black
564209	4/0	3	19	0.474	55	1.589	1.779	907	1350	0.084	0.1	0.041	8.8	180	205	black
566368	4/0	4	19	0.474	55	1.738	1.928	1134	1654	0.084	0.1	0.041	9.6	144	164	black
564210	250	3	22	0.52	65	1.73	1.92	1065	1572	0.071	0.086	0.041	9.6	205	230	black
565909	250	4	22	0.52	65	1.905	2.095	1390	1988	0.071	0.086	0.041	12.5	164	184	black
564212	300	3	35	0.569	65	1.848	2.038	1283	1832	0.059	0.071	0.041	12.2	230	260	black
565741	350	3	35	0.615	65	1.947	2.137	1447	2025	0.05	0.062	0.04	12.8	250	280	black
566129	350	4	35	0.615	65	2.136	2.326	1818	2501	0.05	0.062	0.04	13.9	200	224	black
564214	500	3	35	0.735	65	2.206	2.396	1944	2612	0.035	0.044	0.039	14.3	310	350	black
566371	500	4	35	0.735	65	2.426	2.646	2463	3330	0.035	0.044	0.039	15.8	248	280	black
564215	600	3	58	0.812	80	2.42	2.64	2273	3138	0.029	0.037	0.039	15.8	340	385	black
564216	750	3	58	0.908	80	2.642	2.862	2767	3723	0.024	0.031	0.038	17.1	385	435	black
566032	750	4	58	0.908	80	2.914	3.134	3533	4674	0.024	0.031	0.038	18.8	308	348	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.

