



## BUILDING WIRE SPECIFICATIONS CSA ACWU 90

- 600V RATING
- 8000 SERIES ACM ALUMINUM CONDUCTORS
- CSA APPROVED FOR HAZARDOUS LOCATIONS

### APPLICATIONS

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, and ladder type cable trays in wet and dry locations; direct earth burial; service entrance above or below ground.

### CODES / STANDARDS

Southwire's ACWU 90 cables meet or exceed the following requirements:

- CSA Standard C22.2, No. 51 - Armoured Cables
- CSA Standard C22.2 No. 174 - Hazardous Locations (HL)
- CSA Standard C22.2 No. 0-M91 - General Requirements
- CSA Certified File Listing: LL90458, CLASS 581801 - Armoured Cable
- CSA Sunlight Resistant
- FT-4 - Flame Test Rating
- AG-14 - Acid Gas Test Rating
- Passes CSA -40°C Cold Bend & -40°C Impact Test
- Allows for -25°C Installation Temperature
- XLPE Insulation: +90°C Temperature Rating
- Aluminum Interlocked Armour
- 600V Insulation Rating

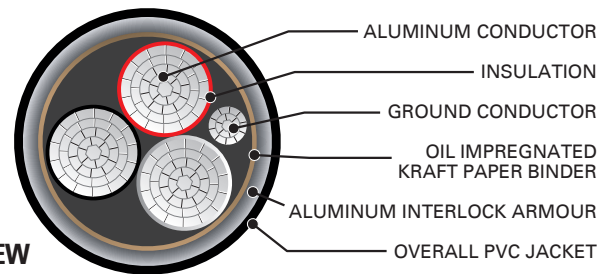
- CSA -40°C LOW TEMPERATURE RATING
- CSA SUNLIGHT RESISTANT
- XLPE 90°C INSULATION

### CONSTRUCTION

Three compact 8000 Series ACM aluminum conductors with low temperature cross-linked polyethylene insulation (XLPE) and bare aluminum bonding wire in multi-conductor cables. Conductor assembly is wrapped and enclosed in interlocked aluminum armour with a low flame spread PVC jacket (FT4 and AG14 rating).

Colour Coding:

- For 3 conductor constructions: black, red and white plus bare bonding conductor.
- For 4 conductor constructions: black, red, blue and white plus bare bonding conductor.



END VIEW

### SPECIFICATIONS

Southwire Stock Number	Conductor Size* AWG or kcmil	Jacket Thickness		Diameter Over Armour		Approx. Diameter Over Outer Jacket		Bonding Cond. Size AWG or kcmil	Approx. Weight		Ampacity (Amps)	
		inches	mm	inches	mm	inches	mm		lbs/1000ft	kg/km	(@30°C Ambient)	Direct Buried †
											90°C	90°C
<b>Three Conductors</b>												
564182	6 (6)	0.06	1.52	0.92	23.29	1.02	25.9	8	376	559	55	~
564183	4 (6)	0.06	1.52	1.01	25.76	1.11	28.2	6	467	695	75	~
564184	2 (6)	0.08	2.03	1.14	28.83	1.27	32.3	6	632	940	100	~
564205	1 (18)	0.08	2.03	1.25	31.70	1.38	35.1	4	753	1120	115	~
564206	1/0 (18)	0.08	2.03	1.32	33.55	1.46	37.1	4	847	1260	135	203
564207	2/0 (18)	0.08	2.03	1.41	35.79	1.54	39.1	4	964	1434	150	230
564208	3/0 (18)	0.08	2.03	1.51	38.43	1.64	41.7	4	1109	1650	175	261
564209	4/0 (18)	0.095	2.42	1.63	41.35	1.79	45.5	4	1351	2010	205	298
564210	250 (35)	0.095	2.42	1.77	44.98	1.93	49	2	1572	2339	230	324
564212	300 (35)	0.095	2.42	1.89	48.03	2.04	51.8	2	1829	2721	260	359
565741	350 (35)	0.095	2.42	1.99	50.60	2.14	54.4	2	2024	3012	280	390
564213	400 (35)	0.095	2.42	2.09	53.01	2.24	56.9	2	2219	3302	305	419
564214	500 (35)	0.095	2.42	2.26	57.33	2.4	61	1	2612	3886	350	473
564215	600 (58)	0.11	2.8	2.49	63.32	2.66	67.6	1	3148	4684	385	522
564216	750 (58)	0.11	2.8	2.70	68.61	2.87	72.9	1/0	3721	5537	435	586
<b>Four Conductors</b>												
566336	6 (6)	0.06	1.52	0.99	25.02	1.08	27.5	8	435	648	55	~
566340	4 (6)	0.08	2.03	1.09	27.76	1.23	21.3	6	592	881	75	~
566343	2 (6)	0.08	2.03	1.23	31.19	1.36	34.6	6	746	1110	100	~
566346	1 (18)	0.08	2.03	1.35	34.39	1.49	37.9	4	896	1334	115	~
566357	1/0 (18)	0.08	2.03	1.44	36.50	1.57	39.9	4	1016	1511	135	203
566361	2/0 (18)	0.095	2.42	1.54	38.99	1.7	43.2	4	1214	1807	150	230
566365	3/0 (18)	0.095	2.42	1.65	41.94	1.81	46	4	1419	2112	175	261
566368	4/0 (18)	0.095	2.42	1.74	44.30	1.94	49.3	4	1651	2457	205	298
565909	250 (35)	0.095	2.42	1.95	49.50	2.1	53.3	2	1987	2957	230	324
566129	350 (35)	0.095	2.42	2.19	55.52	2.33	59.2	2	2500	3720	280	390
566371	500 (35)	0.11	2.8	2.48	63.02	2.66	67.6	1	3329	4955	350	473
566032	750 (58)	0.11	2.8	2.98	75.67	3.14	79.8	1/0	4670	6949	435	586

\* Numbers in brackets represent number of strands per conductor. † For Direct Buried Applications, ampacities are based on the 2015 CE Code Part I - Installation Configuration D10 Detail 1 and Table D10B. Direct Buried installations must comply with 2015 CE Code Rules 12-012 and 4-004

