



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

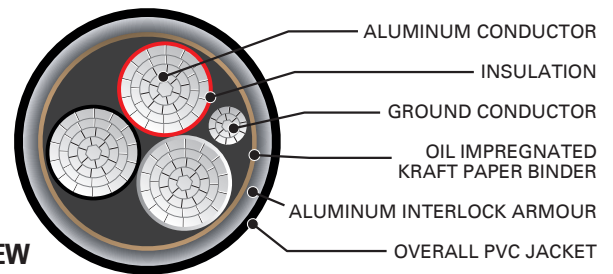
- CSA -40°C LOW TEMPERATURE RATING
- CSA SUNLIGHT RESISTANT
- XLPE 90°C INSULATION

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
Three Conductors												
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
Four Conductors												
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

