

Single Conductor Aluminum ACWU90-HL 600V XLP Insulation



APPLICATION:

ACWU90-HL is for exposed and concealed wiring in wet or dry locations and where exposed to the weather. It is used in ventilated, non-ventilated, and ladder type cable trays in wet or dry locations. ACWU is suitable for direct earth burial (with protection as required by inspection authority), as well as for service entrance above or below ground. The cable is approved for use in and relating to Class I, II and III, Division 1 and 2 Hazardous Locations. Minimum recommended installation temperature is -40°C. Maximum normal operation conductor temperature is 90°C.

CONDUCTORS:

- Compact ACM aluminum with Class B stranding

INSULATION:

- Abrasion, heat, moisture, and sunlight resistant low temperature cross-linked polyethylene insulation (XLPE) and concentric grounding wire. Black

ARMOUR:

- Interlocked aluminum armour over the cabled conductors

JACKET:

- Abrasion, heat, moisture and sunlight resistant and low flame spread polyvinyl chloride (PVC) jacket, marked with sequential meter markings, -40°C, black

STANDARDS:

- CSA C22.2 No. 51 Armoured Cables & No. 174 Cables and Cable Glands for Use in Hazardous Locations
- Sunlight Resistant
- FT-4, AG-14

Part Number	Conductor Size	Ground Wire Size	Min. Avg. Insulation Thickness	Nominal Diameter			Weight	Ampacity*	
	AWG/kcmil	AWG/kcmil		Jacket	Armour	Cable		75°C	90°C
				mm	mm	mm	mm	kg/km	amps
4/0-01ACWU	4/0	2	1.27	15.1	23.9	26.3	750	280	315
250-01ACWU	250	1	1.52	16.8	25.6	28.0	893	315	355
350-01ACWU	350	1/0	1.52	19.2	29.0	30.5	1,107	395	445
500-01ACWU	500	2/0	1.52	22.3	31.0	33.5	1,417	485	545
600-01ACWU	600	2/0	1.52	25.0	33.9	36.3	1,635	545	615
750-01ACWU	750	3/0	1.52	27.4	36.3	38.7	1,942	620	700
1000-01ACWU	1000	3/0	1.52	31.4	42.3	45.2	2,536	750	845
1250-01ACWU	1250	4/0	1.52	35.0	48.6	51.0	3,090	855	965

All values are nominal and subject to correction.

*Ampacity based on the 2018 Canadian Electrical Code Part 1 Table 3 for one conductor cables and show the allowable Ampacities of insulated conductors, in a raceway, cable, or earth based on ambient temperature of 30°C (86°F)

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