

Three & Four 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 bare aluminum grounding wire

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

COLOUR CODE:

Cond #	Color
3C	Black - Red - Blue
4C	Black - Red - Blue - White

Part Number	Conductor Size	Ground Wire Size	Min. Avg. Insulation Thickness	Nominal Diameter			Weight	Ampacity*	
				Jacket	Armour	Cable		75°C	90°C
	AWG/kcmil	AWG/kcmil	mm	mm	mm	mm	kg/km	amps	amps
Three Conductor									
6-03ACWU	6	8	0.76	6.8	19.9	22.3	484	50	55
4-03ACWU	4	6	1.02	7.9	23.3	25.8	657	65	75
2-03ACWU	2	6	1.02	9.3	26.5	29.0	840	90	100
1-03ACWU	1	4	1.27	10.6	29.6	32.0	1,008	100	115
1/0-03ACWU	1/0	4	1.27	11.6	31.8	34.2	1,166	120	135
2/0-03ACWU	2/0	4	1.27	12.6	34.1	36.6	1,336	135	150
3/0-03ACWU	3/0	4	1.27	13.8	36.8	39.3	1,559	155	175
4/0-03ACWU	4/0	4	1.27	15.1	39.8	42.2	1,809	180	205
250-03ACWU	250	2	1.52	16.8	46.0	48.9	2,309	205	230
300-03ACWU	300	2	1.52	17.7	48.1	50.7	2,661	230	260
350-03ACWU	350	2	1.52	19.2	51.5	54.4	2,905	250	280
400-03ACWU	400	2	1.52	20.3	52.9	55.5	3,188	270	305
500-03ACWU	500	1	1.52	22.3	58.6	61.4	3,815	310	350
600-03ACWU	600	1	1.52	25.0	61.6	65.1	4,519	340	385
750-03ACWU	750	1/0	1.52	27.4	68.7	73.7	5,513	385	435



1-877-611-5122
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Part Number	Conductor Size	Ground Wire Size	Min. Avg. Insulation Thickness	Nominal Diameter			Weight	Ampacity*	
				Jacket	Armour	Cable		75°C	90°C
	AWG/kcmil	AWG/kcmil	mm	mm	mm	mm	kg/km	amps	amps
Four Conductor									
6-04ACWU	6	8	0.76	6.8	23.7	26.2	538	50	55
4-04ACWU	4	6	1.02	7.6	27.2	29.3	696	65	75
2-04ACWU	2	6	1.02	9.3	27.7	30.2	943	90	100
1-04ACWU	1	4	1.27	10.6	31.0	33.4	1,149	100	115
1/0-04ACWU	1/0	4	1.27	11.6	33.3	35.7	1,323	120	135
2/0-04ACWU	2/0	4	1.27	12.6	35.7	38.2	1,543	135	150
3/0-04ACWU	3/0	4	1.27	13.8	40.9	43.8	1,990	155	175
4/0-04ACWU	4/0	4	1.27	15.1	44.0	46.8	2,316	180	205
250-04ACWU	250	2	1.52	16.8	48.2	51.1	2,732	205	230
300-04ACWU	300	2	1.52	17.7	51.8	54.9	3,114	230	260
350-04ACWU	350	2	1.52	19.2	54.0	56.9	3,475	250	280
500-04ACWU	500	1	1.52	22.3	61.4	65.1	4,710	310	350
600-04ACWU	600	1	1.52	25.0	68.0	71.6	5,615	340	385
750-04ACWU	750	1/0	1.52	27.4	73.7	77.3	6,670	385	435

All values are nominal and subject to correction.

*Ampacity based on the 2018 Canadian Electrical Code Part 1 Table 4 for cable with three carrying conductors and show the allowable Ampacities of insulated conductors, in a raceway, cable, or earth based on ambient temperature of 30°C (86°F)

