

CONSTRUCTION CHARACTERISTICS TABLE - ACWU90

SINGLE STRANDED CONDUCTOR (PLUS BONDING WIRE)										
Size* AWG or kcmil	Insulation Thickness		Bonding Wire Size AWG or kcmil	Approximate Diameter				Approximate Net Cable Weight		Ampacity** (amps) 30°C Ambient
				Armour		PVC Jacket				
	mm	in		mm	in	mm	in	kg/km	lbs/kft	
350	1.65	0.065	1/0	29.2	1.15	31.4	1.24	1115	770	415
500	1.65	0.065	2/0	31.3	1.26	34.8	1.37	1422	982	515
750	2.03	0.080	3/0	36.8	1.49	40.6	1.60	1961	1354	670

Notes:
 Insulation Colour Code: Black (sunlight resistant)
 * Compact aluminum conductors are AA-8000 series aluminum alloy (ACM)
 **Ampacity in accordance with Table 3 of the Canadian Electrical Code.

THREE STRANDED CONDUCTOR (PLUS BONDING WIRE)										
Size* AWG or kcmil	Insulation Thickness		Bonding Wire Size AWG	Approximate Diameter				Approximate Net Cable Weight		Ampacity** (amps) 30°C Ambient
				Armour		PVC Jacket				
	mm	in		mm	in	mm	in	kg/km	lbs/kft	
6	1.14	0.045	8	20.6	0.81	23.6	0.93	500	335	55 [#]
4	1.14	0.045	6	23.1	0.91	25.9	1.02	618	415	65
2	1.14	0.045	6	25.9	1.02	28.7	1.13	771	518	95 [#]
1	1.40	0.055	4	28.9	1.14	31.7	1.25	941	632	105
1/0	1.40	0.055	4	31.0	1.22	33.5	1.32	1074	722	120
2/0	1.40	0.055	4	33.0	1.30	35.8	1.41	1235	830	145
3/0	1.40	0.055	4	35.8	1.41	38.3	1.51	1444	970	165
4/0	1.40	0.055	4	38.6	1.52	41.9	1.65	1746	1173	185 [#]
250	1.65	0.065	2	42.2	1.66	45.5	1.79	2165	1455	215
300	1.65	0.065	2	45.7	1.80	48.8	1.92	2661	1788	240
350	1.65	0.065	2	48.3	1.90	51.6	2.03	2958	1989	260
500	1.65	0.065	1	54.9	2.16	58.2	2.29	3767	2531	330

Notes:
 Insulation Colour Code: Black, Red, White (all sunlight resistant)
 *Compact aluminum conductors are AA-8000 series aluminum alloy (ACM)
 **Ampacity in accordance with Table 4 of the Canadian Electrical Code.
[#] For 3-wire 120/240 V and 120/208 V service conductors for single dwellings, or for feeder conductors supplying single dwelling units of row housing, of apartments and similar buildings, and sized in accordance with Rules 8-200(1), 8-200(2) and 8-202(1), the allowable ampacity for sizes 6 AWG, 2 AWG and 4/0 AWG shall be 60 A, 100 A and 200 A respectively. In this case the 5% adjustment Rule 8-106(1) cannot be applied.

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FOUR STRANDED CONDUCTOR (PLUS BONDING WIRE)										
Size* AWG or kcmil	Insulation Thickness		Bonding Wire Size AWG	Approximate Diameter				Approximate Net Cable Weight		Ampacity** (amps) 30°C Ambient
				Armour		PVC Jacket				
	mm	in		mm	in	mm	in	kg/km	lbs/kft	
4	1.14	0.045	6	25.4	1.00	28.7	1.13	774	520	65
1	1.40	0.055	4	32.0	1.26	34.8	1.37	1143	768	105
3/0	1.40	0.055	4	39.4	1.55	42.4	1.67	1839	1236	165
4/0	1.40	0.055	4	42.4	1.67	45.7	1.80	2168	1457	185 [#]
250	1.65	0.065	2	47.2	1.86	50.5	1.99	2897	1947	215
350	1.65	0.065	2	53.0	2.09	56.3	2.22	3612	2427	260
500	1.65	0.065	1	60.4	2.38	64.5	2.54	4834	3248	330

Notes:

Insulation Colour Code: Black, Red, Blue, White (all sunlight resistant)

*Compact aluminum conductors are AA-8000 series aluminum alloy (ACM)

**Ampacity in accordance with Table 4 of the Canadian Electrical Code, assuming the fourth conductor is the neutral of a balanced 3 phase, 4 wire system.

[#] For 3-wire 120/240 V and 120/208 V service conductors for single dwellings, or for feeder conductors supplying single dwelling units of row housing, of apartments and similar buildings, and sized in accordance with Rules 8-200(1), 8-200(2) and 8-202(1), the allowable ampacity for sizes 6 AWG, 2 AWG and 4/0 AWG shall be 60 A, 100 A and 200 A respectively. In this case the 5% adjustment Rule 8-106(1) cannot be applied.