

AC90 – ALUMINUM CONDUCTOR

3 CONDUCTOR SIZES #8 AWG, THRU 750 kcmil

XLPE/ALUMINUM ARMoured/600 V, (-40°C) CSA



Conductor:
8 AWG. Thru 750 kcmil compact class "B"
stranded aluminum (8000 series aluminum)

Insulation:
Cross-linked Polyethylene (XLPE) Type RW90

Colour Coding:
Black, white, red for sizes #8 through #2
Black with color code for size #1 through 750

Bonding Conductor (Ground):
One (1) bare stranded class "B" aluminum
conductor

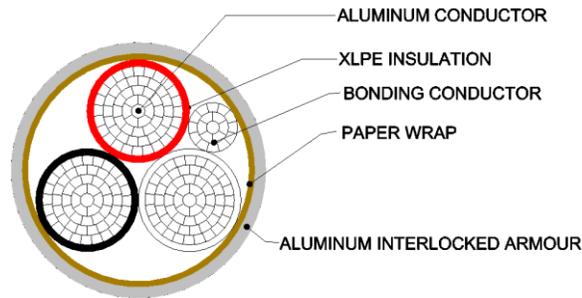
Armour:
Aluminum Interlocked Armour (AIA)

CSA Licence:
109933

Applications:
For exposed and concealed wiring in dry, locations
For use in ventilated, non-ventilated and ladder-type cable trays in
dry locations

Features:
Rated at 90°C dry
Excellent crush resistance
Provides long service life
Cost effective alternative to installations in conduit
Meets cold bend and impact tests at (-40°C)

Compliances:
Industry compliances: CSA Standard C22.2 No. 51, No.38 and
No.2256, RoHS
Flame test compliances: CSA ST1 and FT4



PART NO.	NO OF COND.	COND. SIZE (AWG/kcmil)	GROUND WIRE SIZE (AWG /kcmil)	MIN. AVG. INSULATION		NOMINAL DIAMETER (OVER)				NET WEIGHT KG/KM	AMPACITY AT 90° C
						TWISTED CORE		ARMOUR			
				INCHES	mm	INCHES	mm	INCHES	mm		
801722	3	8	8	0.045	1.14	0.486	12.3	0.730	18.54	319	45
800936	3	6	8	0.045	1.14	0.570	14.5	0.820	20.83	390	55
800937	3	4	6	0.045	1.14	0.664	16.9	0.915	23.24	502	75
801723	3	3	6	0.045	1.14	0.712	18.1	0.978	24.84	571	85
800806	3	2	6	0.045	1.14	0.785	19.9	1.035	26.29	653	100
800952	3	1	4	0.055	1.40	0.902	22.9	1.152	29.26	811	115
800938	3	1/0	4	0.055	1.40	0.978	24.8	1.281	32.54	949	132
801008	3	2/0	4	0.055	1.40	1.066	27.1	1.316	33.43	1089	150
801142	3	3/0	4	0.055	1.40	1.170	29.7	1.420	36.07	1275	175
801524	3	4/0	4	0.055	1.40	1.281	32.5	1.531	38.89	1518	205
801481	3	250	2	0.065	1.65	1.391	35.3	1.641	41.68	1791	230
801526	3	300	2	0.065	1.65	1.518	38.6	1.828	46.43	2017	260
801528	3	350	2	0.065	1.65	1.593	40.5	1.843	46.81	2301	280
801530	3	400	2	0.065	1.65	1.681	42.7	1.991	50.57	2549	305
801532	3	500	1	0.065	1.65	1.845	46.9	2.155	54.74	3143	350
801724	3	600	1	0.080	2.03	2.073	52.7	2.323	59.00	3642	385
801534	3	750	1/0	0.080	2.03	2.273	57.7	2.523	64.08	4367	435

DIMENSIONS AND WEIGHTS ARE NOMINAL; SUBJECT TO INDUSTRY TOLERANCES

AMPACITY IS BASED ON CEC Part 1