



ALUMINUM CONDUCTOR POWER CABLE

1KV Aluminum RWU90 CSA
XLPE, Building Wire
1000V, CSA Type RWU90(-40°C), Single Conductor, Aluminum

APPLICATION: For use in raceways in accordance with Canadian Electrical Code (CEC)*. Approved for direct burial and for service entrance below ground.

DESCRIPTION: 8 AWG thru 1000 kcmil Class B compact stranded AA 8000 series. Insulation is heat-and- moisture-resistant, low-temperature Cross-Linked Polyethylene (XLPE), Type RWU90, -40°C.

Color Code: 8 AWG thru 2 AWG- black, white, red, blue, green; 1 AWG and larger- black.

Ratings: Rated at 90°C wet or dry. Meets cold bend and cold impact testes at -40°C.

SPECIFICATIONS: CSA Standard C 22.2 No. 38. CSA Approval File Number 156400

COND. SIZE (AWG/kcmil)	COND STRAND	NOMINAL COND. O.D.		MIN. AVG. INS. THICKNESS		NOMINAL DIAMETER (OVER) INSULATION		ALUMINUM WEIGHT		NET WEIGHT		AMPACITY 30C AMBIENT
		Inches	mm	Inches	mm	Inches	mm	lbs/kft	kg/km	lbs/kft	kg/km	
8 AWG- 1000 kcmil CONDUCTORS												
8	7/.0481	0.13	3.30	0.080	2.03	0.29	7.37	15	22	38	57	30
6	7/.0606	0.17	4.32	0.080	2.03	0.33	8.38	24	36	52	78	55
4	7/.0772	0.21	5.33	0.080	2.03	0.37	9.40	39	58	72	108	65
3	7/.0867	0.24	6.10	0.080	2.03	0.40	10.16	50	74	87	130	75
2	7/.0974	0.27	6.86	0.080	2.03	0.43	10.92	62	92	103	154	95
1	18/.0664	0.30	7.62	0.095	2.41	0.49	12.45	78	116	131	195	105
1/0	18/.0745	0.34	8.64	0.095	2.41	0.53	13.46	98	146	157	234	120
2/0	18/.0837	0.38	9.65	0.095	2.41	0.57	14.48	125	186	190	283	145
3/0	18/.0940	0.43	10.92	0.095	2.41	0.62	15.75	156	232	229	341	165
4/0	18/.1055	0.48	12.19	0.095	2.41	0.67	17.02	194	289	275	409	185
250	35/.0822	0.52	13.21	0.110	2.79	0.74	18.80	231	344	331	493	215
300	37/.0900	0.57	14.48	0.110	2.79	0.79	20.07	282	420	392	583	240
350	35/.0972	0.62	15.75	0.110	2.79	0.84	21.34	324	482	443	659	260
400	37/.1040	0.66	16.76	0.110	2.79	0.88	22.35	376	559	502	747	290
500	35/.1162	0.74	18.80	0.110	2.79	0.96	24.38	467	695	609	906	330
600	58/.0992	0.82	20.83	0.125	3.18	1.07	27.18	560	833	734	1093	370
750	58/.1109	0.91	23.11	0.125	3.18	1.16	29.46	691	1028	884	1316	405
1000	61/.1280	1.06	26.92	0.125	3.18	1.31	33.27	941	1400	1167	1737	480

1)For compact-stranded constructions, the number of wires may be reduced as follows

19-Wire Constructions- 18 Wires Minimum

37- Wire Constructions- 35 Wires Minimum

61- Wire Constructions- 58 Wires Minimum

2)Based on CEC Part 1, Table 4 for three conductors in raceway (conduit). For underground installations, refer to CEC, Rule 4-004 for Ampacity rating.

* Not for cable trays

**Refer to CEC, Table 19 for conditions of use.

***For termination and splicing of aluminum conductors, refer to CEC Rule 12-118.

† For 3 wires 120/208V residential services or subservices, the allowable Ampacity for sizes No. 6, No. 2 and No. 4/0 AWG shall be 60A, 100A, and 200A respectively. In this case, the 5% adjustment of Rule 8-106(1) cannot be applied.

Cable Marking: PRIORITY WIRE <AWG/kcmil (mm²)> CSA 156400 RWU90 AL AA-8000 XLPE 1000V -40°C FT1<YEAR><SEQ METERS>

Revision Date: 11/16/10

Revision #: 002

Approved By: Brian Yu

Signature

Date: 11/16/10