NUAL® Brand ACWU90 Cable

XLPE

600 V, CSA Type ACWU90, Aluminum

COND. SIZE (AWG/kcmil)	BOND SIZE	MIN. AVG. INSULATION THICKNESS		SUB ASSEMBLY		NOM. CABLE DIAMETER OVER ARMOR		NOM. JACKET DIAMETER OVER ARMOR		NOM. JACKET THICKNESS		ALUMINUM CONDUCTOR WEIGHT		NET WEIGHT	
		IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
SINGLE CONDUCTORS WITH CONCENTRIC BOND															
1	4	0.050	1.27	0.51	13.0	0.74	18.8	0.83	21.1	0.045	1.14	119	177	288	429
1/0	4	0.050	1.27	0.55	14.0	0.78	19.8	0.87	22.1	0.045	1.14	161	240	341	507
2/0	2	0.050	1.27	0.59	15.0	0.82	20.8	0.91	23.1	0.045	1.14	187	278	377	561
3/0	2	0.050	1.27	0.64	16.3	0.86	21.8	0.95	24.1	0.045	1.14	219	326	424	631
4/0	2	0.050	1.27	0.70	17.8	0.93	23.6	1.02	25.9	0.045	1.14	277	412	498	741
250	1	0.060	1.52	0.76	19.3	0.99	25.1	1.11	28.2	0.060	1.52	313	466	588	875
300	1	0.060	1.52	0.81	20.6	1.04	26.4	1.16	29.5	0.060	1.52	359	534	652	970
350	1/0	0.060	1.52	0.87	22.1	1.10	27.9	1.22	31.0	0.060	1.52	427	635	737	1097
400	1/0	0.060	1.52	0.92	23.4	1.15	29.2	1.27	32.3	0.060	1.52	474	705	795	1183
500	2/0	0.060	1.52	1.02	25.9	1.25	31.8	1.37	34.8	0.060	1.52	593	882	943	1403
600	2/0	0.060	1.52	1.11	28.2	1.34	34.0	1.46	37.1	0.060	1.52	719	1070	1097	1633
750	3/0	0.060	1.52	1.21	30.7	1.44	36.6	1.56	39.6	0.060	1.52	860	1280	1268	1887
1000	3/0	0.060	1.52	1.37	34.8	1.66	42.2	1.78	45.2	0.060	1.52	1141	1698	1645	2448
THREE CONDUCTORS WITH BOND															
6	8	0.045	1.14	0.57	14.5	0.76	19.3	0.85	21.6	0.045	1.14	89	132	277	412
4	6	0.045	1.14	0.68	17.3	0.87	22.1	0.96	24.4	0.045	1.14	142	211	361	537
2	6	0.045	1.14	0.77	19.6	0.96	24.4	1.05	26.7	0.045	1.14	211	314	460	685
1	4	0.050	1.27	0.88	22.4	1.07	27.2	1.19	30.2	0.060	1.52	274	408	600	893
1/0	4	0.050	1.27	0.94	23.9	1.14	29.0	1.26	32.0	0.060	1.52	336	500	687	1022
2/0	4	0.050	1.27	1.02	25.9	1.21	30.7	1.33	33.8	0.060	1.52	413	615	794	1182
3/0	4	0.050	1.27	1.12	28.4	1.32	33.5	1.44	36.6	0.060	1.52	511	760	929	1383
4/0	4	0.050	1.27	1.23	31.2	1.42	36.1	1.54	39.1	0.060	1.52	634	943	1094	1628
250	2	0.060	1.52	1.37	34.8	1.63	41.4	1.75	44.5	0.060	1.52	765	1138	1340	1994
300	2	0.060	1.52	1.48	37.6	1.74	44.2	1.86	47.2	0.060	1.52	905	1347	1528	2274
350	2	0.060	1.52	1.57	39.9	1.83	46.5	1.95	49.5	0.060	1.52	1046	1557	1708	2542
400	2	0.060	1.52	1.68	42.7	1.94	49.3	2.06	52.3	0.060	1.52	1186	1765	1894	2819
500	1	0.060	1.52	1.84	46.7	2.11	53.6	2.26	57.4	0.075	1.91	1484	2208	2325	3460
600	1	0.060	1.52	2.01	51.1	2.28	57.9	2.43	61.7	0.075	1.91	1765	2627	2679	3987
750	1/0	0.060	1.52	2.21	56.1	2.48	63.0	2.63	66.8	0.075	1.91	2207	3284	3216	4786
1000	1/0	0.060	1.52	2.54	64.5	2.81	71.4	2.96	75.2	0.075	1.91	2909	4329	4073	6061
FOUR CONDUCTORS WITH BOND															
6	8	0.045	1.14	0.58	14.7	0.78	19.8	0.87	22.1	0.045	1.14	114	170	318	473
4	6	0.045	1.14	0.78	19.8	0.97	24.6	1.06	26.9	0.045	1.14	181	269	435	647
2	6	0.045	1.14	0.89	22.6	1.08	27.4	1.20	30.5	0.060	1.52	273	406	598	890
1	4	0.050	1.27	1.01	25.7	1.21	30.7	1.33	33.8	0.060	1.52	353	525	745	1109
1/0	4	0.050	1.27	1.09	27.7	1.28	32.5	1.40	35.6	0.060	1.52	435	647	850	1265
2/0	4	0.050	1.27	1.16	29.5	1.35	34.3	1.47	37.3	0.060	1.52	538	801	985	1466
3/0	4	0.050	1.27	1.26	32.0	1.45	36.8	1.57	39.9	0.060	1.52	668	994	1158	1723
4/0	4	0.050	1.27	1.38	35.1	1.64	41.7	1.76	44.7	0.060	1.52	832	1238	1415	2106
250	2	0.060	1.52	1.54	39.1	1.80	45.7	1.92	48.8	0.060	1.52	999	1487	1690	2515
300	2	0.060	1.52	1.66	42.2	1.92	48.8	2.04	51.8	0.060	1.52	1186	1765	1934	2878
350	2	0.060	1.52	1.75	44.5	2.02	51.3	2.17	55.1	0.075	1.91	1374	2045	2230	3319
400	2	0.060	1.52	1.88	47.8	2.15	54.6	2.30	58.4	0.075	1.91	1561	2323	2454	3652
500	1	0.060	1.52	2.07	52.6	2.33	59.2	2.48	63.0	0.075	1.91	1952	2905	2936	4369
600	1	0.060	1.52	2.25	57.2	2.52	64.0	2.67	67.8	0.075	1.91	2327	3463	3398	5057
750	1/0	0.060	1.52	2.48	63.0	2.75	69.9	2.90	73.7	0.075	1.91	2909	4329	4096	6096
1000	1/0	0.060	1.52	2.85	72.4	3.11	79.0	3.26	82.8	0.075	1.91	3846	5723	5218	7765

Dimensions and weights are nominal; subject to industry tolerances.

Product Construction:

Conductor:

- 6 AWG thru 2 AWG Class B compact stranded aluminum alloy (8000 Series) per ASTM B800 and ASTM B801
- 1 AWG thru 350 kcmil compact stranded SIW aluminum alloy (8000 Series) per ASTM B800, ASTM B801 and ASTM B836
- 400 kcmil thru 1000 kcmil Class B compact stranded aluminum alloy (8000 Series) per ASTM B800 and ASTM B801

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE), Type RW90

Print:

- GENERAL CABLE® (PLT. OF MFG.) (# OF CDRS) SIZE (AWG OR KCMIL) AL ACM NUAL® ACWU90 XLPE -40°C 600 V HL FT4 AG14 SUN RES CSA YEAR DATE (TIME OF MFG) SEQUENTIAL METER MARK

Applications:

NUAL® Brand ACWU90 armored cable is designed for use in the following applications:

- Outdoors (exposed locations)
- In wet locations (Type RW90 conductors)
- Direct buried
- In cable trays
- Encased in concrete
- Temporary power
- As aerial cable on a messenger
- Class 1, Zones 1 and 2, and Classes 2 and 3, Divisions 1 and 2 hazardous locations for multi-conductors per CEC Section 18

Features:

- Rated 90°C wet or dry locations
- UV/sunlight-resistant, moisture-resistant and flame-retardant insulation
- Meets cold and bend impact test at -40°C
- Excellent electrical, thermal and physical properties
- Excellent crush, oil and chemical resistance
- Rated AG14 (Acid Gas)

Compliances:

Industry Compliances:

- CSA C22.2 No. 38
- CSA C22.2 No. 51
- CSA C22.2 No. 174 (Hazardous Locations)
- CSA Approved File # LL 28117
- Canadian Electrical Code (CEC)

Flame Test Compliances:

- CSA FT1 and FT4

Other Compliances:

- OSHA Acceptable
- RoHS Compliant

Packaging:

- Material cut to length and shipped on non-returnable wood reels

NUAL® BRAND

Canadian Standard Association

RoHS Compliant Directive 2011/65/EU

General Cable