NUAL® Brand AC90 Cable

XLPE

600 V, CSA Type AC90, Aluminum

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 750 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.) SIZE (AWG OR KCMIL) AL ACM NUAL® XLPE -40˚C 600 V SUN RES CSA YEAR DATE (TIME OF MFG)

Options:

- Other sizes and stranding options available upon request

Applications:

NUAL® Brand AC90 armored cable is designed for the following above-ground applications:

- For service entrance and feeders
- For power lighting and signal circuits
- Indoor locations
- In cable tray
- In dry locations and embedded in plaster finish on brick or other masonry except in damp or wet conditions
- In certain hazardous locations
- Interior temporary power

Features:

- Rated 90°C 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

Compliances:

Industry Compliances:

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

Other Compliances:

- OSHA Acceptable
- RoHS Compliant

Packaging:

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

COND. SIZE (AWG/kcmil)	BOND SIZE	MIN. AVG. INSULATION THICKNESS		SUB ASSEMBLY		NOM. CABLE DIAMETER OVER ARMOR		ALUMINUM CONDUCTOR WEIGHT		NET WEIGHT	
		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
SINGLE CONDUCTOR WITH CONCENTRIC BOND											
1/0	4	0.050	1.27	0.55	14.0	0.78	19.8	161	240	271	403
2/0	2	0.050	1.27	0.59	15.0	0.82	20.8	187	278	304	452
3/0	2	0.050	1.27	0.64	16.3	0.86	21.8	219	326	347	516
4/0	2	0.050	1.27	0.70	17.8	0.93	23.6	277	412	416	619
250	1	0.060	1.52	0.76	19.3	0.99	25.1	313	466	470	699
300	1	0.060	1.52	0.81	20.6	1.04	26.4	359	534	528	786
350	1/0	0.060	1.52	0.87	22.1	1.10	27.9	427	635	606	902
750	3/0	0.060	1.52	1.21	30.7	1.44	36.6	860	1280	1099	1635
THREE CONDUCTORS WITH BOND											
6	8	0.045	1.14	0.57	14.5	0.76	19.3	89	132	209	311
4	6	0.045	1.14	0.68	17.3	0.87	22.1	142	211	283	421
2	6	0.045	1.14	0.77	19.6	0.96	24.4	211	314	374	557
1	4	0.050	1.27	0.88	22.4	1.07	27.2	274	408	472	702
1/0	4	0.050	1.27	0.94	23.9	1.14	29.0	336	500	552	821
2/0	4	0.050	1.27	1.02	25.9	1.21	30.7	413	615	650	967
3/0	4	0.050	1.27	1.12	28.4	1.32	33.5	511	760	774	1152
4/0	4	0.050	1.27	1.23	31.2	1.42	36.1	634	943	927	1380
250	2	0.060	1.52	1.37	34.8	1.63	41.4	765	1138	1150	1711
300	2	0.060	1.52	1.48	37.6	1.74	44.2	905	1347	1326	1973
350	2	0.060	1.52	1.57	39.9	1.83	46.5	1046	1557	1495	2225
400	2	0.060	1.52	1.68	42.7	1.94	49.3	1186	1765	1668	2482
500	1	0.060	1.52	1.84	46.7	2.11	53.6	1484	2208	2017	3002
600	1	0.060	1.52	2.01	51.1	2.28	57.9	1765	2627	2347	3493
750	1/0	0.060	1.52	2.21	56.1	2.48	63.0	2207	3284	2856	4250
FOUR CONDUCTORS WITH BOND											
6	8	0.045	1.14	0.58	14.7	0.78	19.8	114	170	248	369
4	6	0.045	1.14	0.78	19.8	0.97	24.6	181	269	181	269
2	6	0.045	1.14	0.89	22.6	1.08	27.4	273	406	273	406
1	4	0.050	1.27	1.01	25.7	1.21	30.7	353	525	602	896
1/0	4	0.050	1.27	1.09	27.7	1.28	32.5	435	647	699	1040
2/0	4	0.050	1.27	1.16	29.5	1.35	34.3	538	801	826	1229
3/0	4	0.050	1.27	1.26	32.0	1.45	36.8	668	994	987	1469
4/0	4	0.050	1.27	1.38	35.1	1.64	41.7	832	1238	1223	1820
250	2	0.060	1.52	1.54	39.1	1.80	45.7	999	1487	1480	2202
300	2	0.060	1.52	1.66	42.2	1.92	48.8	1186	1765	1711	2546
350	2	0.060	1.52	1.75	44.5	2.02	51.3	1374	2045	1935	2880
400	2	0.060	1.52	1.88	47.8	2.15	54.6	1561	2323	2141	3186
500	1	0.060	1.52	2.07	52.6	2.33	59.2	1952	2905	2596	3863
600	1	0.060	1.52	2.25	57.2	2.52	64.0	2327	3463	3032	4512
750	1/0	0.060	1.52	2.48	63.0	2.75	69.9	2909	4329	3698	5503

Dimensions and weights are nominal; subject to industry tolerances.