

NUAL® Brand AC90 cable with its interlocked aluminum armor is designed for above-ground applications. The distinctive features unique to NUAL Brand AC90 Cable provide significant savings in installation cost and time. Engineered to replace conduit and wire applications, this all-in-one cable assembly offers fewer installation steps. NUAL Brand AC90 cable's interlocked aluminum armor protects the conductors from damage before, during and after installation, and provides overall flexibility not available with a conduit.

NUAL Brand AC90 is a factory-produced 600 volt assembly of one to four insulated, phase-identified NUAL® ACM conductors and one bare bonding conductor inside flexible interlocked aluminum armour. Cross-linked polyethylene (XLPE) insulated conductors are rated for 90°C.

Multi-conductor AC90 cables are available in sizes 6 AWG to 750 kcmil. Single conductor AC90 cables are available in sizes from 1 AWG to 750 kcmil, but are not approved for use in hazardous locations. On single-conductor cables, the bonding conductor is applied concentrically around the phase conductor.

NUAL Brand AC90 cables meet or exceed the requirements of CSA C22.2 No. 38 and C22.2 No. 51, and are approved for use in accordance with the recommendations of the Canadian Electrical Code.

Product Features:

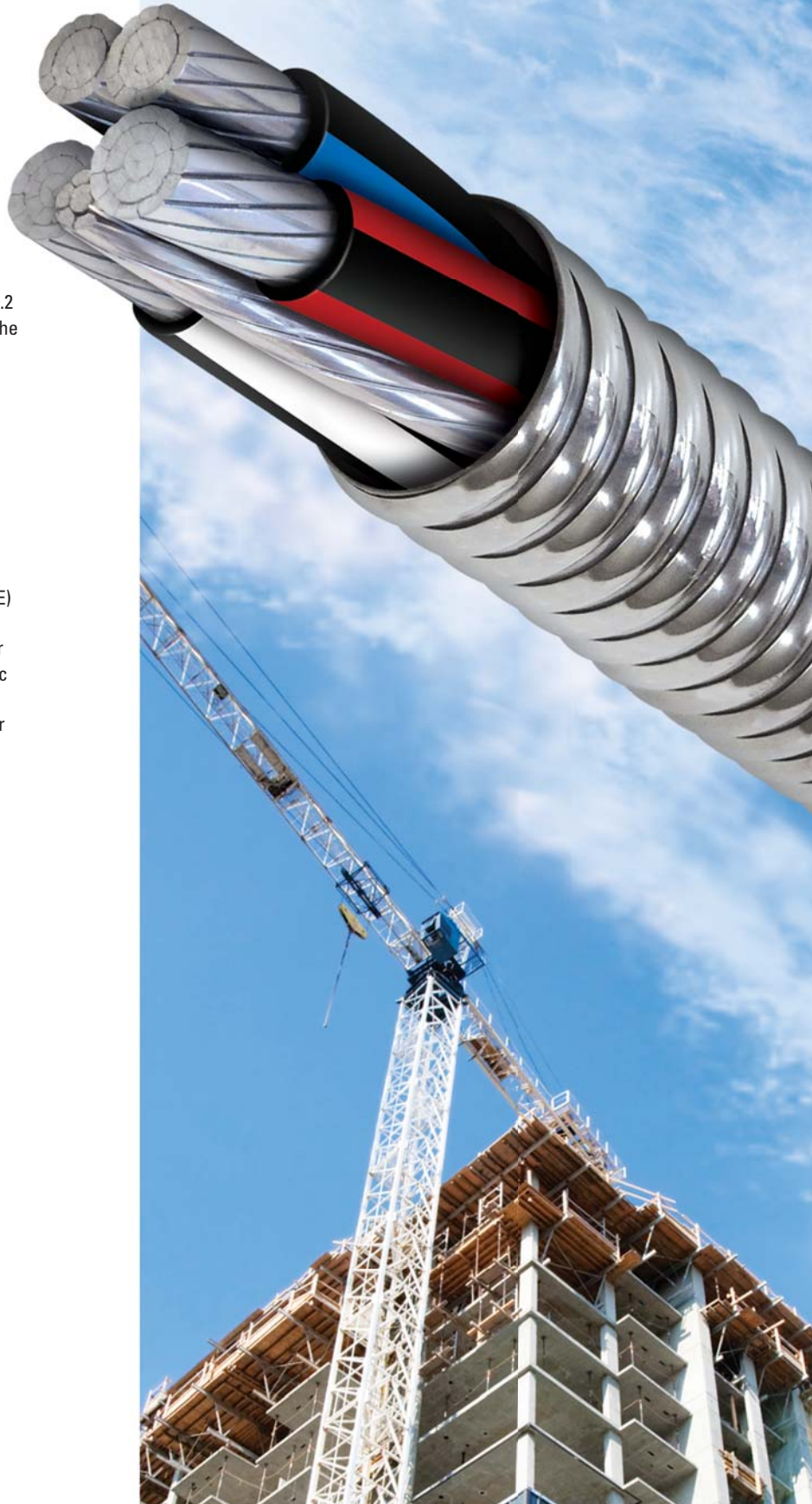
- Maximum Conductivity – NUAL Brand compact aluminum alloy conductors carry twice the current per kilogram as equivalent copper conductors.
- Reliable Termination – NUAL Brand conductors terminate safely with industry standard dual-rated aluminum lugs.
- Exceptional Insulation – The cross-linked polyethylene (XLPE) insulation on the NUAL Brand conductors is rated for operating temperatures of -40°C to +90 °C and offers a higher maximum short-circuit temperature rating than thermoplastic insulation. It is sunlight and moisture resistant.
- Easy to Install – NUAL Brand conductors are light weight for easier lifting and handling with 25% more flexibility and 40% less springback than copper conductors of equal ampacity.
- Heavy Metals Free* insulation is RoHS compliant and environmentally sustainable while providing excellent long-term performance.

Application:

NUAL Brand ACWU90 armoured cable is designed for use in the following open and concealed wiring applications:

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

* Denotes compliance to RoHS, Directive 2002/95/EC.



Conductor/ Size (AWG/kcmil)	NUAL COMPACT				
	Approximate Diameters		Bonding Conductor Size	Approximate Weights	
	Under Armour (mm)	Over Armour (mm)	Overall Diameter (mm)	Conductor Metal (kg/km)	Total (kg/km)
SINGLE CONDUCTOR					
1/0	14.0	18.8	2	237.88	391.81
2/0	15.1	19.9	2	275.54	441.60
3/0	16.2	21.0	2	323.06	503.60
4/0	17.6	22.4	1	408.20	605.05
250	19.2	24.0	1	460.75	684.09
300	20.5	25.3	1	529.23	768.94
350	21.7	26.5	1/0	626.40	881.62
750	29.7	34.5	3/0	1261.31	1593.77
THREE CONDUCTOR					
6	14.5	19.5	8	130.42	296.38
4	17.5	23.3	6	207.44	403.70
2	19.76	24.60	6	308.60	535.08
1	23.07	27.90	4	401.03	688.78
1/0	26.20	30.98	2	504.77	833.66
2/0	26.76	31.56	4	604.04	948.43
3/0	29.33	34.13	4	746.62	1128.85
4/0	32.74	39.24	1	984.04	1433.83
250	35.74	42.24	2	1118.08	1668.39
300	38.47	44.98	2	1323.52	1920.92
350	40.99	47.49	2	1528.95	2170.66
400	43.35	49.85	2	1734.39	2371.98
500	47.55	54.05	1	2169.00	2871.97
750	56.96	63.47	1/0	3226.20	4073.42
FOUR CONDUCTOR					
6	16.74	21.54	8	166.36	363.99
4	19.86	24.66	6	254.50	498.73
2	22.66	27.46	6	399.48	672.56
1	26.37	31.17	4	515.65	866.35
1/0	29.64	34.44	2	669.40	1061.84
2/0	30.28	35.08	4	789.34	1205.83
3/0	32.82	39.32	4	976.43	1490.83
4/0	37.49	43.99	1	1273.84	1857.15
250	40.01	46.51	2	1460.47	2127.55
300	43.06	49.56	2	1734.39	2459.87
350	45.88	52.38	2	2008.31	2788.88
400	48.52	55.02	2	2282.23	3053.57
500	53.22	59.73	1	2853.80	3705.59
750	63.77	70.28	1/0	4253.39	5282.50

Conversion Factors:

kcmil x 0.5067 = mm²
mm x 0.0394 = inches
kg/km x 0.6720 = lb/M ft.



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