NUAL® Brand TECK90

General Cable

General Cable's NUAL® Brand TECK90 Cable is a rugged, durable AA-8030 aluminum alloy cable used extensively in demanding applications such as hazardous locations, direct burial, and industrial applications. The excellent inherent properties of the materials and construction of TECK90 cable ensure reliable service, even when exposed to environmentally harsh conditions, hazardous locations and abuse.

NUAL Brand TECK90 is a flexible, interlocked aluminum armored cable having an inner PVC jacket over insulated NUAL Brand RW90 conductors as well as an outer PVC jacket over the armor with lead-free SR acid flame check. TECK90 cable is available as a single conductor 1000 volt construction in sizes 250 to 1000 kcmil (127 to 507 mm^2) with the bonding conductor applied concentrically around the phase conductor. Multi-conductor constructions are available in a 1000 volt rating in sizes 6 AWG to 750 kcmil (13.3 to 380 mm^2) with a bonding conductor.

Product Features:

- TECK90 cables are filled to round using non-hygroscopic filler ensuring uniform concentricity which eases pulling
- TECK90 PVC jackets have metre markings which greatly ease measuring and cutting lengths — prior to shipping from the manufacturing facility, the accuracy of the markings is verified with gauges calibrated to international standards
- NUAL Brand TECK90 is CSA-approved for open and concealed wiring, direct burial and for use in Class 1, Zone 1 and 2, and Classes 2 and 3, Division 1 and 2 hazardous locations
- NUAL Brand TECK90 cables meet or exceed the following standards:
  - CSA C22.2 No. 131 (TECK)
  - CSA C22.2 No. 174 (Hazardous Locations)
  - FT4-Rated; vertical cable-tray test
- NUAL Brand TECK90 cables are intended for use in hazardous locations, direct burial, and industrial applications

Application:

- Used extensively in hazardous locations, direct burial, and industrial applications
- Performs reliably when exposed to environmentally harsh conditions, hazardous locations and abuse
- Can be installed in cable trays (enclosed ventilated or non-ventilated, and ladder-type), suspended on Unistrut, or clamped directly to walls or ceilings in indoor locations
- Certified for outdoor and other wet applications, including direct burial in the earth
- Installed in mines and major resource industries such as the pulp and paper, petrochemical, and metal industries

NUAL® BRAND

NUAL® Brand TECK90 - 1000V

Conductor Size AWG/kcmil	Conductor Size mm²	NUAL Bonding Conductor Size	1000 Volt				
			Approximate Diameters			Approximate Weight	
			Under Armour (mm)	Over Armour (mm)	Over Jacket (mm)	Conductor Metal (kg/km)	Total (kg/km)
SINGLE CONDUCTOR							
250	127	1	23.4	28.6	30.7	342	1081
300	152	1	24.7	29.9	32.0	411	1187
350	177	1/0	25.8	31.0	33.0	479	1314
500	253	2/0	29.7	34.9	37.0	685	1649
750	380	3/0	34.1	41.0	43.5	1027	2249
1000	507	3/0	37.9	44.9	47.4	1370	2766
THREE CONDUCTOR							
6		8	22.6	27.8	29.8	130	820
4		6	25.3	30.5	32.5	207	981
2		6	28.0	33.2	35.3	309	1168
1		4	31.8	38.8	41.3	401	1512
1/0		4	34.0	40.9	43.5	491	1685
2/0		4	36.0	42.9	45.4	604	1908
3/0		4	38.6	45.8	48.3	747	2227
4/0		2	41.3	48.5	51.0	960	2553
250		2	46.3	53.5	56.0	1118	3067
300		2	49.1	563	58.9	1324	3406
350		2	51.4	58.6	61.6	1529	3814
400	203	1	54.2	61.4	64.5	1758	4136
500		1	59.1	66.3	69.3	2169	4809
750		1/0	68.5	75.7	78.8	3226	6373
FOUR CONDUCTOR							
6		8	24.9	30.1	32.1	166	928
4		6	28.0	33.2	35.2	265	1123
2		6	30.8	36.0	38.0	399	1349
1		4	35.5	42.4	44.9	516	1772
1/0		4	37.5	44.4	46.9	636	1977
2/0		4	39.5	46.7	49.2	786	2320
3/0		4	43.9	51.1	53.7	976	2799
4/0		2	47.1	54.3	56.9	1250	3207
250		2	50.9	58.1	61.1	1460	3694
350		2	56.6	63.7	66.8	2008	4597
400		1	59.8	66.9	70.0	2306	5001
500		1	65.1	72.3	75.4	2854	5834
750		1/0	77.2	84.4	88.0	4253	8179

Conversion Factors:

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

General Cable

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Printed in USA
Form No. BWC-0005E-0314