

General Cable's NUAL® Brand RWU90 single conductor aluminum alloy cable is designed for use in general purpose residential, commercial and industrial wiring applications. As with all NUAL® Brand aluminum alloy building wire, these products are of the highest quality, provide outstanding performance and offer tremendous flexibility.

NUAL Brand RWU90 consists of a single aluminum alloy conductor with cross-linked polyethylene insulation. RWU90 conductor's XLPE insulation is thicker than the insulation on RW90 conductor. Optional CSA-certified PVC jacket is available upon request.

Product Features:

- Maximum Conductivity – NUAL Brand compact aluminum alloy conductors carry twice the current per kilogram as copper conductors
- NUAL Brand RWU90 is rated for 1000 volts
- Reliable Termination – NUAL Brand conductors terminate safely with industry standard dual-rated aluminum lugs
- Exceptional Insulation – The cross-linked polyethylene (XLPE) insulation on NUAL Brand RWU90 cable is rated for operating temperatures of -40°C to +90 °C and offers a higher maximum short-circuit temperature rating than thermoplastic insulation
- 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
- Meets the requirements of CSA C22.2 No. 38 and approved for use in accordance with the recommendations of the Canadian Electrical Code

Application:

- Enclosed raceways
- In wet or dry locations
- Designed for use as a service, feeder and branch circuits
- Direct burial**
- Underground ducts

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

**Rules 12-012 and 4-004 of the Canadian Electrical Code, Part I should be consulted for limitations with respect to depth of burial, required additional protection and conductor to conductor spacing.



Conductor Size (AWG or kcmil)	NOMINAL DIMENSIONS			APPROXIMATE MASS	
	NUAL Brand Compact (mm)	Insulation Thickness** (mm)	Overall Diameter (mm)	Bare Conductor (kg/km)	Total (kg/km)
8	3.40	2.03	7.5	22.6	54.6
6	4.29	2.03	8.4	35.9	73.4
4	5.41	2.03	9.5	57.2	101.5
2	6.81	2.03	10.9	90.9	144.0
1	7.56	2.41	12.4	114.6	188.5
1/0	8.56	2.41	13.4	144.6	226.9
2/0	9.49	2.41	14.3	182.3	272.5
3/0	10.69	2.41	15.5	229.8	330.5
4/0	11.94	2.41	16.8	289.8	401.7
250	13.06	2.79	18.6	342.4	481.5
350	15.42	2.79	21.0	479.4	642.2
500	18.69	2.79	24.3	684.8	863.0
750	23.06	3.18	29.4	1027.2	1274.0
1000	26.92	3.18	33.3	1369.6	1654.7
1500	35.87	3.56	43.0	2054.4	2524.6

Conversion Factors:

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

**Minimum average.

1500 kcmil is conventional round. All sizes up to 1000 kcmil are compact.