

General Cable's NUAL[®] Brand Type RW90 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 RW90 cables meet or exceed the requirements of CSA C22.2 No. 38 and are approved for use in accordance with the recommendations of the Canadian Electrical Code. With a rating of 600 volts, NUAL Brand RW90 can be installed in enclosed raceways in both wet and dry locations and are designed for use as service, feeder or branch circuits. Standard RW90 may be pulled into underground ducts, but is not approved for direct burial in earth.

NUAL Brand RW90 consists of a single aluminum alloy conductor with cross-linked polyethylene insulation. RW90 is available in multiple forms, including with an optional CSA-certified PVC outer covering.

Product Features:

- Maximum Conductivity – NUAL Brand compact aluminum alloy conductors carry twice the current per kilogram as 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 NUAL Brand RW90 cable is rated for operating temperatures of -40°C to +90 °C and offers a higher maximum short-circuit temperature rating than thermoplastic insulation
- 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
- Sunlight and moisture resistant insulation

Application:

- CSA-certified Type RW90 XLPE is recognized for use in enclosed raceways in wet and dry locations
- Most commonly, an approved raceway would consist of rigid metal or plastic conduit, flexible conduit, electrical metallic tubing or other enclosed raceway
- Type RW90 XLPE is certified to be pulled into underground ducts
- Standard RW90 XLPE is not approved for direct burial in the earth

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



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	1.14	5.69	22.6	37.9
6	4.29	1.14	6.58	35.9	54.4
4	5.41	1.14	7.70	57.2	79.7
3	6.05	1.14	8.33	72.1	97.0
2	6.81	1.14	9.09	90.9	118.7
1	7.56	1.40	10.35	114.6	155.6
1/0	8.56	1.40	11.35	144.6	191.0
2/0	9.49	1.40	12.28	182.3	233.9
3/0	10.69	1.40	13.49	229.8	288.5
4/0	11.94	1.40	14.73	289.8	356.0
250	13.06	1.65	16.36	342.4	424.4
300	14.38	1.65	17.68	410.9	501.8
350	15.42	1.65	18.72	479.4	577.4
400	16.74	1.65	20.04	547.8	640.1
500	18.69	1.65	21.99	684.8	787.6
600	20.65	2.03	24.71	821.8	960.6
750	23.06	2.03	27.12	1027.2	1181.8
1000	26.92	2.03	30.98	1369.6	1549.9
1500	35.87	2.41	40.70	2054.4	2388.1

Notes:

1. Data are approximate and subject to normal manufacturing tolerances.
2. Standard lengths are subject to normal manufacturing tolerances of ±10%.
3. Two, three or four conductors can be paralleled on a reel.
4. The suffix -2 indicates that these wire types can be used at a continuous 90° C operating temperature in wet and dry locations.



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