

NUAL® Brand RWU90 High Speed (HS) XLPE, Low-Voltage Power 1000 V, CSA Type RWU90, Single Conductor, Aluminum



Features:

- Rated 90°C wet and dry locations
- UV/sunlight-resistant, moisture-resistant and flame-retardant insulation in all colors
- Meets cold bend and cold impact tests at -40°C
- Excellent electrical, thermal and physical properties
- Resistant to crush, compression cuts and heat deformation
- Rated for direct burial
- High Speed (HS) cable features a specially designed XLPE insulation that allows for fast and easy cable pulls

Compliances:

- Industry Compliances:**
- CSA C22.2 No. 38 Type RWU90, CSA File #LL028117
 - OSHA Acceptable
 - Canadian Electrical Code CEC

Other Compliances:

- RoHS Compliant

Packaging:

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

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 1000 kcmil Class B compact stranded aluminum alloy (8000 series) per ASTM B800 and ASTM B801

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)

Print:

- GENERAL CABLE® (PLANT OF MFG) SIZE (AWG OR KCMIL)(MM²) AL ACM NUAL® RWU90 XLPE HS (-40°C) 600 V SUN-RES CSA LL28117 YEAR DATE (TIME OF MFG) SEQUENTIAL METER MARK

Options:

- Other sizes and stranding options available upon request
- Available in black and full color skin coat

Applications:

- In accordance with Canadian Electrical Code (CEC), Part 1
- For wiring exposed to the weather
- For use in raceways (except cable trays) in dry, damp or wet locations in accordance with Canadian Electrical Code (CEC)
- For termination and splicing of aluminum conductors, refer to CEC Rule 12-118

COND. SIZE (AWG or kcmil)	NUMBER OF WIRES	NOM. COND. DIAMETER		MIN. AVERAGE INS. THICKNESS		NOM. CABLE DIAMETER		ALUMINUM CONDUCTOR WEIGHT		NET WEIGHT		AMPACITY (1) 30°C AMBIENT	
		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	KG/KM	LBS/1000 FT	KG/KM	@ 75°C	@ 90°C

8 AWG - 1000 kcmil CONDUCTORS

8	7	0.134	3.40	0.080	2.03	0.294	7.47	16	24	38	57	40	45
6	7	0.169	4.29	0.080	2.03	0.329	8.36	25	37	51	76	50	55 ⁽²⁾
4	7	0.213	5.41	0.080	2.03	0.373	9.47	39	58	70	104	65	75
2	7	0.268	6.81	0.080	2.03	0.428	10.87	62	92	99	147	90	100
1	8	0.298	7.57	0.095	2.41	0.488	12.40	79	118	129	192	100	115
1/0	10	0.337	8.56	0.095	2.41	0.527	13.39	99	147	155	231	120	135
2/0	12	0.374	9.50	0.095	2.41	0.564	14.33	125	186	186	277	135	150
3/0	16	0.421	10.69	0.095	2.41	0.611	15.52	158	235	226	336	155	175
4/0	19	0.470	11.94	0.095	2.41	0.660	16.76	199	296	274	408	180	205
250	23	0.514	13.06	0.110	2.79	0.734	18.64	235	350	329	490	205	230
300	22	0.566	14.38	0.110	2.79	0.786	19.96	282	420	385	573	230	260
350	26	0.607	15.42	0.110	2.79	0.827	21.01	329	490	439	653	250	280
400	37	0.659	16.74	0.110	2.79	0.879	22.33	376	560	488	726	270	305
500	37	0.736	18.69	0.110	2.79	0.956	24.28	471	701	593	882	310	350
600	61	0.813	20.65	0.125	3.18	1.063	27.00	565	841	719	1070	340	385
750	61	0.908	23.06	0.125	3.18	1.158	29.41	706	1051	876	1304	385	435
1000	61	1.060	26.92	0.125	3.18	1.310	33.27	941	1400	1138	1694	445	500

Dimensions and weights are nominal; subject to industry tolerances.

(1) Ampacity based on the Canadian Electrical Code (CEC) Part 1 Table 4 for three conductors in raceway. Refer to CEC Rules 4-004 and 4-006.

(2) For 3 wires, 120/240 V and 120/208 V residential services or subservices, the allowable ampacity for #6 AWG shall be 60A. In this case, the 5% adjustment of CEC Rule 8-106(1) cannot be applied.

Refer to CEC Rule 4-004(23) and Table 39.

COLOR CODE CHART

Color Code	Color	Color Code	Color
1	Black	7	Blue
2	White	8	Orange
3	Red	9	Gray
4	Green	A	Purple
5	Yellow	C	Tan
6	Brown	-	-

