

# NUAL® Brand RW90 High Speed (HS) XLPE, Low-Voltage Power 600 V, CSA Type RW90, 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
- 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 RW90, 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)(MM<sup>2</sup>) AL ACM NUAL® RW90 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 non-High Speed
- Available in black and full color skin coat
- Available in FeederPlex HS® Type RW90

**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
- Type RW90 XPLE is certified to be pulled into underground ducts
- Standard RW90 XLPE is not approved for direct burial in the earth

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
<b>8 AWG - 1000 kcmil CONDUCTORS</b>													
8	7	0.134	3.40	0.045	1.14	0.224	5.69	16	24	26	39	40	45
6	7	0.169	4.29	0.045	1.14	0.259	6.58	25	37	39	58	50	55 <sup>(2)</sup>
4	7	0.213	5.41	0.045	1.14	0.303	7.70	39	58	56	83	65	75
2	7	0.268	6.81	0.045	1.14	0.358	9.09	62	92	83	124	90	100
1	8	0.298	7.57	0.055	1.40	0.408	10.36	79	118	108	161	100	115
1/0	10	0.337	8.56	0.055	1.40	0.447	11.35	99	147	132	196	120	135
2/0	12	0.374	9.50	0.055	1.40	0.484	12.29	125	186	162	241	135	150
3/0	16	0.421	10.69	0.055	1.40	0.531	13.49	158	235	199	296	155	175
4/0	19	0.470	11.94	0.055	1.40	0.580	14.73	199	296	244	363	180	205
250	23	0.514	13.06	0.065	1.65	0.644	16.36	235	350	292	435	205	230
300	22	0.566	14.38	0.065	1.65	0.696	17.68	282	420	345	513	230	260
350	26	0.607	15.42	0.065	1.65	0.737	18.72	329	490	397	591	250	280
400	37	0.659	16.74	0.065	1.65	0.789	20.04	376	560	443	659	270	305
500	37	0.736	18.69	0.065	1.65	0.866	22.00	471	701	544	810	310	350
600	61	0.813	20.65	0.080	2.03	0.973	24.71	565	841	664	988	340	385
750	61	0.908	23.06	0.080	2.03	1.068	27.13	706	1051	817	1216	385	435
1000	61	1.060	26.92	0.080	2.03	1.220	30.99	941	1400	1071	1594	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	-	-

