

RW90 1000V INSULATED WIRE ALUMINUM

Description Single aluminum conductor with low temperature moisture resisting Exelene* cross-linked polyethylene insulation.
CSA Spec C22.2 No. 38-95

Temperature -40°C to +90°C

Jackets Standard colours are available.
Standard Black #6 and larger is sunlight resistant and marked "Outdoor"; coloured insulation is NOT.

Application For open wiring and raceways (except cable troughs and ventilated flexible cableway) in dry or wet locations.
For exposed wiring where exposed to weather with sunlight resistant insulation. Standard Black #6 and larger is sunlight resistant and marked "Outdoor", coloured insulation is NOT.



AWG Size	Cond. Size	Insulation Thickness		Approximate Diameter		Approx Net Cable Weight Aluminum Cond		Ampacity (30C Ambient)	
		mm	in	mm	in	kg/km	lbs/ft	Free Air	Conduit #
14	1	1.14	.045	3.9	0.16	-	-	-	-
12	1	1.14	.045	4.4	0.17	20	13	20	15
10	1	1.14	.045	5.0	0.20	27	18	30	25
14	7	1.14	.045	4.1	0.16	-	-	-	-
12	7	1.14	.045	4.6	0.18	21	14	20	15
10	7	1.14	.045	5.2	0.21	30	20	30	25
8	7	1.14	.045	6.0	0.24	42	28	45	30
6	7	1.52	0.06	7.8	0.31	67	45	80	55**
4	7	1.52	0.06	9.0	0.35	95	64	105	65
3	7	1.52	0.06	9.7	0.38	115	77	120	75
2	7	1.52	0.06	10.5	0.41	138	93	140	95**
1	19	2.03	0.08	12.5	0.49	183	123	165	105
1/0	19	2.03	0.08	13.5	0.53	220	148	190	120
2/0	19	2.03	0.08	14.6	0.58	268	180	220	145
3/0	19	2.03	0.08	15.9	0.63	326	219	255	165
4/0	19	2.03	0.08	17.3	0.68	397	267	300	185**
250	37	2.28	0.09	19.0	0.75	470	316	330	215
300	37	2.28	0.09	20.4	0.80	551	370	375	240
350	37	2.28	0.09	21.6	0.85	631	424	415	260
400	37	2.28	0.09	22.8	0.90	710	477	450	290
500	37	2.28	0.09	24.9	0.98	866	582	515	330
600	61	2.28	0.09	26.9	1.06	1018	684	585	370
750	61	2.28	0.09	29.5	1.16	1249	839	670	405
1000	61	2.28	0.09	33.3	1.31	1628	1094	800	480

Colours: Standard colours are available.

Non-jacketed RW-90 (XLPE) cables are not suitable for installation in vaults and switch rooms under the conditions of C.E. Code Part 1 Rule 12-2204. Suitable flame retardant jacketed cables are available on request.

**For 3-wire 120/240 and 120/208V residential services or sub-services, the allowable ampacity for sizes #6, #2 and #4/0 AWG aluminum shall be 60, 100 and 200 amperes respectively.

Based on not more than 3 aluminum conductors in raceway or cable. For 1 conductor per underground duct installation ampacities.