

RW90 1000V INSULATED WIRE COPPER

Description Single copper 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.

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. Approved for use with ceiling fixtures



Size	Strand	Insulation Thickness		Approximate Diameter		Approx Weight Copper Cond		Amp (30°C Ambient) Copper	
		mm	in	mm	in	kg/km	lbs/mft	Free Air	Conduit #
14	1	1.14	0.045	3.9	0.16	28	19	20	15
12	1	1.14	0.045	4.4	0.17	40	27	25	20
10	1	1.14	0.045	5.0	0.20	59	40	40	30
14	7	1.14	0.045	4.1	0.16	28	19	20	15
12	7	1.14	0.045	4.6	0.18	42	28	25	20
10	7	1.14	0.045	5.2	0.21	61	41	40	30
8	7	1.14	0.045	6.0	0.24	92	62	70	45
6	7	1.52	0.060	7.8	0.31	149	100	100	65
4	7	1.52	0.060	9.0	0.35	226	152	135	85
3	7	1.52	0.060	9.7	0.38	280	188	155	105
2	7	1.52	0.060	10.5	0.41	347	233	180	120
1	19	2.03	0.080	12.5	0.49	446	300	210	140
1/0	19	2.03	0.080	13.5	0.53	552	371	245	155
2/0	19	2.03	0.080	14.6	0.58	685	460	285	185**
3/0	19	2.03	0.080	15.9	0.63	853	573	330	210
4/0	19	2.03	0.080	17.3	0.68	1060	712	385	235
250	37	2.28	0.090	19.0	0.75	1255	843	425	265
300	37	2.28	0.090	20.4	0.80	1490	1001	480	295
350	37	2.28	0.090	21.6	0.85	1729	1162	530	325
400	37	2.28	0.090	22.8	0.90	1966	1321	575	345
500	37	2.28	0.090	24.9	0.98	2433	1635	660	395
600	61	2.28	0.090	26.9	1.06	2903	1951	740	455
750	61	2.28	0.090	29.5	1.16	3603	2421	845	500
1000	61	2.28	0.090	33.3	1.31	4764	3201	1000	585

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. #2/0 AWG copper shall be 200 amperes. In these cases, the 5% adjustment per C.E. Code Rule 8-106(1) cannot be applied.

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