

RW90/RW75 Aluminum

XLPE Insulated, 600 V, 1000 V, 2000 V

Features

Listed as RW90/RW75 per CSA
Insulation is rated per CSA as:

- Sunlight Resistant for Black color only
- For 600 V and 1000 V rated -40 °C and FT1

Application

These cables are used in general purpose wiring in circuits not exceeding 2000 volts.

May be used in wet or dry locations, installed in raceway, duct and aerial installations.

For exposed wiring in wet locations or exposed to weather.

For use in raceways, except cable trays, in wet locations.

For use in ventilated and non-ventilated cable trays in vaults and in switch rooms.

Standards

CSA C22.2 No. 38

Thermoset-Insulated Wire and Cable.

Specifications

Maximum operating voltage:

- 600 volts
- 1000 volts
- 2000 volts

Maximum conductor operation temperatures:

- **RW90:** 90 °C wet and dry
- **RW75:** 75 °C wet and dry

Engineering Information

1. Conductor: Aluminum AA-8000 alloy compacted conductor, Class B stranding, per ASTM B801.

Sizes: 6 AWG – 1000 kcmil

On request, larger sizes available.

2. Separator: A suitable opaque tape, as required.

3. Insulation: Black Thermoset flame retardant cross-linked polyethylene (XLPE).

On request, colored insulation.



Technical Data

RW90/RW75 600 V

Size AWG or kcmil	Number of Strands	Insulation Thickness	Approximate Outside Diameter	Approximate Net Weight
		mil	in	lb/kft
6	7	45	0.26	40
4	7	45	0.31	59
2	7	45	0.36	87
1	19	55	0.41	110
1/0	19	55	0.45	134
2/0	19	55	0.49	165
3/0	19	55	0.54	202
4/0	37	55	0.59	249
250	37	65	0.66	295
300	37	65	0.71	348
350	37	65	0.75	400
400	37	65	0.80	452
500	37	65	0.87	555
600	61	80	0.98	672
750	61	80	1.08	827
1000	61	80	1.23	1082

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.

Capacities: Refer to beginning of section.

Technical Data *continued*

RW90/RW75 1000 V

Size AWG or kcmil	Number of Strands	Insulation Thickness	Approximate Outside Diameter	Approximate Net Weight
		mil	in	lb/kft
6	7	60	0.30	45
4	7	60	0.34	63
2	7	60	0.39	92
1	19	80	0.47	122
1/0	19	80	0.51	146
2/0	19	80	0.55	177
3/0	19	80	0.60	215
4/0	37	80	0.65	263
250	37	90	0.71	313
300	37	90	0.76	367
350	37	90	0.81	420
400	37	90	0.85	473
500	37	90	0.93	577
600	61	90	1.01	681
750	61	90	1.10	836
1000	61	90	1.25	1092

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.

Ampacities: Refer to beginning of section.

RW90/RW75 2000 V

Size AWG or kcmil	Number of Strands	Insulation Thickness	Approximate Outside Diameter	Approximate Net Weight
		mil	in	lb/kft
6	7	70	0.32	51
4	7	70	0.36	71
2	7	70	0.42	102
1	19	90	0.49	135
1/0	19	90	0.53	161
2/0	19	90	0.57	194
3/0	19	90	0.62	234
4/0	37	90	0.67	284
250	37	105	0.75	339
300	37	105	0.80	394
350	37	105	0.84	450
400	37	105	0.88	504
500	37	105	0.96	612
600	61	120	1.07	736
750	61	120	1.17	897
1000	61	120	1.32	1161

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.

Ampacities: Refer to beginning of section.