

600 Volt ECOSAFE™ RW90

Low Voltage LSZH Cables – Canada



Description

Single conductor 600 Volt RW90 non-halogenated cable with stranded copper conductors, extruded insulation system consisting of a thermosetting EPR-based insulation, and a thermosetting polyolefin outer insulation.

Specifications

ICEA: S-95-658

UL: 1685 ST1

IEEE: 1202 Flame Test

CSA: C22.2 No. 0.3

NFPA: 130 Code Compliant
502 Code Compliant

For 90°C wet or dry operation

Ratings

Type II EPR

Type RW90, Class XL
FT4/ST1 (Low Smoke)
VW-1

For CT USE (1/0 AWG and Larger)
Oil Resistance II
Sunlight Resistant (black, red,
grey and dark colors)

FT1, FT2, FT4

Cable is CSA listed as RW90 in
accordance with CSA C22.2 No. 38

TC-ER (1/0 to 2000KCMIL)

-40°C

Sunlight Resistant (all colors)

Design Parameters

CONDUCTOR: Annealed, Class B, concentric compressed, round, bare copper strand as standard. Other optional strandings per ASTM are available for increased flexibility.

INSULATION: A dual-layer product where the inner and outer layers are co-extruded, resulting in a tightly bonded system. The inner layer utilizes an EPR-based compound and is optimized for superior electrical properties. The outer layer is EVA-based cross-linked polyolefin and is specifically formulated to provide a rugged outer covering, with the additional benefits of limited smoke and halogen-free materials.

Options

- 2kV option available on request
- Class C, Class D, Class G and Class I conductor strandings per ASTM
- Tin-coated conductor
- True Colors and Striping
- Sizes up to 2000KCMIL available upon request

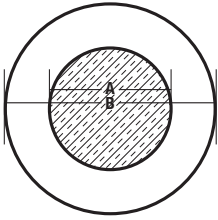
Installation

- Conduit In Air
- Underground Duct
- Wet Locations
- Isolated In Air
- Direct Buried
- In Cable Tray
- Dry Locations



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Conductor				Insulation Thickness (mils)	Nominal Overall Cable Diameter		Nominal Cable Weight (Lbs/kft)	Ampacity in Free Air @ 30°C Ambient (A) per CSA C22.1:24 Table 1 †
Size	# of Strands	Nominal Diameter (in)	Nominal Diameter (mm)		(in)	(mm)		
14 AWG	7	0.07	1.78	45	0.18	4.57	29	30
12 AWG	7	0.09	2.29	45	0.20	5.08	36	40
10 AWG	7	0.12	2.92	45	0.22	5.59	49	55
8 AWG	7	0.14	3.56	60	0.28	7.11	80	80
6 AWG	7	0.18	4.57	75	0.35	8.89	127	105
4 AWG	7	0.23	5.72	75	0.40	10.16	184	140
3 AWG	7	0.25	6.35	75	0.42	10.67	233	165
2 AWG	7	0.29	7.24	75	0.46	11.68	269	190
1 AWG	19	0.32	8.13	100	0.54	13.72	359	220
1/0 AWG	19	0.36	9.14	100	0.60	15.24	439	260
2/0 AWG	19	0.40	10.16	100	0.63	16.00	533	300
3/0 AWG	19	0.46	11.56	100	0.68	17.27	648	350
4/0 AWG	19	0.51	12.83	100	0.74	18.80	807	405
250 KCMIL	37	0.56	14.10	130	0.86	21.84	1000	455
300 KCMIL	37	0.61	15.49	130	0.90	22.86	1167	500
350 KCMIL	37	0.66	16.76	130	0.97	24.64	1321	570
400 KCMIL	37	0.71	17.91	130	0.99	25.15	1497	615
500 KCMIL	37	0.79	20.07	130	1.09	27.69	1833	700
600 KCMIL	61	0.87	21.97	145	1.19	30.23	2190	780
750 KCMIL	61	0.97	24.64	145	1.29	32.77	2705	885
1000 KCMIL	61	1.12	28.45	145	1.44	36.58	3534	1055

PRODUCT NOTES: The above dimensions are approximate and subject to normal manufacturing tolerances. All metric (SI) dimensions are derived from a soft conversion.

† Ampacities are based on the following:

In Free Air per Table CSA C22.1:24 Table 1:

Single-insulated conductor, 90°C conductor operating temperature, and 30°C ambient temperature.