

600 Volt ECOSAFE™ RHW-2

Low Voltage LSZH Cables



Description

Single conductor 600 Volt RHW-2 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

NFPA: 130 Code Compliant
502 Code Compliant

For 90°C wet or dry operation

Ratings

Type II EPR

Type RHW-2, 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)

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
- CSA Listed product available on request
- 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

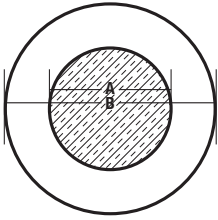


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Conductor				Insulation Thickness (mils)	Nominal Overall Diameter		Nominal Cable Weight (Lbs/kft)	Ampacity in Free Air @ 30°C Ambient (A) per NEC Table 310.17 dated 2026 †
Size	# of Strands	Nominal Diameter (in)	Nominal Diameter (mm)		(in)	(mm)		
14 AWG	7	0.07	1.78	45	0.18	4.57	29	35
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	60	0.32	8.13	114	105
4 AWG	7	0.23	5.72	60	0.36	9.14	169	140
3 AWG	7	0.25	6.35	60	0.39	9.91	218	165
2 AWG	7	0.29	7.24	60	0.42	10.67	253	190
1 AWG	19	0.32	8.13	80	0.50	12.70	338	220
1/0 AWG	19	0.36	9.14	80	0.55	13.97	405	260
2/0 AWG	19	0.40	10.16	80	0.58	14.73	496	300
3/0 AWG	19	0.46	11.56	80	0.64	16.26	620	350
4/0 AWG	19	0.51	12.83	80	0.69	17.53	759	405
250 KCMIL	37	0.56	14.10	95	0.78	19.81	930	455
300 KCMIL	37	0.61	15.49	95	0.83	21.08	1103	500
350 KCMIL	37	0.66	16.76	95	0.89	22.61	1243	570
400 KCMIL	37	0.71	17.91	95	0.92	23.37	1424	615
500 KCMIL	37	0.79	20.07	95	1.02	25.91	1744	700
600 KCMIL	61	0.87	21.97	110	1.13	28.70	2116	780
750 KCMIL	61	0.97	24.64	110	1.23	31.24	2624	885
1000 KCMIL	61	1.12	28.45	110	1.36	34.54	3410	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 310.17 in 2026 NEC:

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

