

# 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:** ICEA S-95-658

**UL:** UL 1685 ST1

**IEEE:** IEEE 1202 Flame Test

**CSA:** CSA C22.2 No. 0.3

**NFPA:** NFPA 130 Code Compliant  
NFPA 502 Code Compliant

## 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)

FT-1 (#6 AWG and Larger)  
FT2, FT-4

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

*For 90°C wet or dry operation*

## 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
- Colorable

## Installation

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

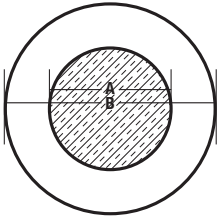


## Prysmian

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SPL-RTF-0007-0424

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Conductor	Average Insulation Thickness (mils)	Conductor Diameter		Overall Diameter		Average Cable Weight (lbs/kft)	† Ampacity (Amps)
		A		B			
		(in.)	(mm)	(in.)	(mm)		90°C In Free Air
<b>600 Volt Copper</b>							
14 AWG CU	45	0.070	1.78	0.18	4.57	26	35
12 AWG CU	45	0.090	2.29	0.19	4.83	36	40
10 AWG CU	45	0.115	2.92	0.22	5.59	51	55
8 AWG CU	60	0.140	3.56	0.28	7.11	83	80
6 AWG CU	60	0.180	4.57	0.32	8.13	117	105
4 AWG CU	60	0.225	5.72	0.36	9.14	173	140
3 AWG CU	60	0.250	6.35	0.39	9.91	212	165
2 AWG CU	60	0.285	7.24	0.42	10.67	257	190
1 AWG CU	80	0.320	8.13	0.50	12.70	339	220
1/0 AWG CU	80	0.360	9.14	0.54	13.72	416	260
2/0 AWG CU	80	0.400	10.16	0.58	14.73	510	300
3/0 AWG CU	80	0.455	11.56	0.64	16.26	629	350
4/0 AWG CU	80	0.505	12.83	0.69	17.53	775	405
250 KCMIL CU	95	0.555	14.10	0.77	19.56	924	455
300 KCMIL CU	95	0.610	15.49	0.82	20.83	1098	500
350 KCMIL CU	95	0.660	16.76	0.87	22.10	1237	570
400 KCMIL CU	95	0.705	17.91	0.92	23.37	1429	615
500 KCMIL CU	95	0.790	20.07	1.00	25.40	1744	700
600 KCMIL CU	110	0.865	21.97	1.11	28.19	2115	780
750 KCMIL CU	110	0.970	24.64	1.21	30.73	2591	885
1000 KCMIL CU	110	1.120	28.45	1.36	34.54	3381	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 2017 NEC Table 310.15(B)(17):

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



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