

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 130-2017 Code Compliant
 NFPA 502-2017 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)

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

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

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

- 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



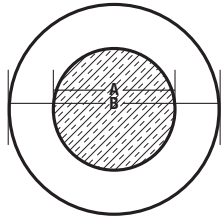
In Cable Tray



Dry Locations

600 Volt ECOSAFE™

Low Voltage LSZH Cables



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter		Overall Diameter		Cable Weight (lbs/kft)	† Ampacity (Amps)
			A	B	A	B		
			(in.)	(mm)	(in.)	(mm)		90°C In Free Air
600 Volt Copper								
034551BK	14 AWG CU	45	0.070	1.78	0.18	4.57	26	35
034552BK	12 AWG CU	45	0.090	2.29	0.19	4.83	36	40
034553BK	10 AWG CU	45	0.115	2.92	0.22	5.59	51	55
034554BK	8 AWG CU	60	0.140	3.56	0.28	7.11	83	80
034555BK	6 AWG CU	60	0.180	4.57	0.32	8.13	117	105
034556BK	4 AWG CU	60	0.225	5.72	0.36	9.14	173	140
034557BK	3 AWG CU	60	0.250	6.35	0.39	9.91	212	165
034558BK	2 AWG CU	60	0.285	7.24	0.42	10.67	257	190
034559BK	1 AWG CU	80	0.320	8.13	0.50	12.70	339	220
034560BK	1/0 AWG CU	80	0.360	9.14	0.54	13.72	416	260
034561BK	2/0 AWG CU	80	0.400	10.16	0.58	14.73	510	300
034562BK	3/0 AWG CU	80	0.455	11.56	0.64	16.26	629	350
034563BK	4/0 AWG CU	80	0.505	12.83	0.69	17.53	775	405
034564BK	250 KCMIL CU	95	0.555	14.10	0.77	19.56	924	455
034565BK	300 KCMIL CU	95	0.610	15.49	0.82	20.83	1098	500
034566BK	350 KCMIL CU	95	0.660	16.76	0.87	22.10	1237	570
034567BK	400 KCMIL CU	95	0.705	17.91	0.92	23.37	1429	615
034568BK	500 KCMIL CU	95	0.790	20.07	1.00	25.40	1744	700
034569BK	600 KCMIL CU	110	0.865	21.97	1.11	28.19	2115	780
034570BK	750 KCMIL CU	110	0.970	24.64	1.21	30.73	2591	885
034571BK	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.