

2kV ECOSAFE™

Low Voltage Commercial & Industrial Cables



Description

Single conductor 2kV RHW-2 non-halogenated cable with stranded copper conductors, extruded insulation system consisting of a thermosetting polyolefin inner 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 2014 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 and is specifically formulated to provide a rugged outer covering, with the additional benefits of limited-smoke and halogen-free materials. Both layers are cross-linked polyolefins.

Options

- Class C, Class D, Class G and Class I conductor strandings per ASTM
- Tin-coated conductor
- Colorable

Installation



Conduit in Air



Direct Buried



Underground Duct



In Cable Tray



Wet Locations



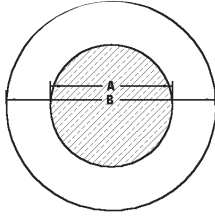
Dry Locations



Isolated in Air

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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	
2kV Copper								
033498BK	14 AWG CU	60	0.071	1.80	0.21	5.39	34	35
033499BK	12 AWG CU	60	0.089	2.26	0.23	5.85	44	40
033440	10 AWG CU	60	0.113	2.87	0.25	6.46	60	55
033500BK	8 AWG CU	70	0.142	3.61	0.31	7.75	92	80
033439	6 AWG CU	70	0.178	4.52	0.34	8.66	129	105
033501BK	4 AWG CU	70	0.225	5.72	0.39	9.86	187	140
033502BK	2 AWG CU	70	0.283	7.19	0.45	11.33	276	190
033503BK	1 AWG CU	90	0.322	8.18	0.53	13.34	351	220
033504BK	1/0 AWG CU	90	0.360	9.19	0.57	14.38	429	260
033505BK	2/0 AWG CU	90	0.405	10.29	0.61	15.52	526	300
033506BK	3/0 AWG CU	90	0.453	11.51	0.66	16.74	645	350
033507BK	4/0 AWG CU	90	0.507	12.88	0.71	18.11	793	405
033508BK	250 MCM CU	105	0.554	14.07	0.80	20.32	952	455
033509BK	350 MCM CU	105	0.661	16.79	0.92	23.29	1278	570
033510BK	500 MCM CU	105	0.789	20.04	1.05	26.54	1791	700
033511BK	750 MCM CU	120	0.968	24.59	1.25	31.85	2645	885

PRODUCT NOTES:

⁵ Items are Prysmian authorized stock.
 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:

2014 NEC Table 310.15(B)(17): Single-insulated conductor, 90°C conductor operating temperature, and 30°C ambient temperature.