



Specification Sheet

BWC Part Number #: BWC-500-01XHHW-2-ALUM

Aluminum XHHW-2 / RW90 600V/1000V XLP INSULATION

Application

Type XHHW-2/RW90 wires are primarily used in conduit or recognized raceways for services, feeders, and branch circuit wiring as specified in the National Electrical Code or the Canadian Electrical Code. These conductors can be used in wet or dry locations at temperatures not exceeding 90°C. The voltage rating is 600V or 1000V for XHHW-2 and 600V for RW90. A cable tray rating is available upon request for sizes 1/0 AWG and larger.

Construction

- Conductor: The conductor is a compact, Class B stranded bare AA-8000 series aluminum alloy per ASTM standards.
- Insulation: The insulation is an abrasion, heat, and moisture-resistant cross-linked polyethylene (XLP). It features a low coefficient of friction ("slippery" or "slick") and is available in ten solid colors.

Standards

- UL 44/CSA C22.2 No. 38 Thermoset-Insulated Wires and Cables
- UL 1685 Vertical-Tray Fire-Propagation and Smoke-Release Test
- ANSI/NEMA WC-70/ICEA S-95-658
- ASTM B800, B801
- Federal Specification A-A-59544A
- NFPA 70 National Electrical Code
- CSA C22.1 Canadian Electrical Code
- Sunlight resistant





Specification Sheet

Part Number	Cond.Size (AWG/ MCM)	COND. SIZE (INCHES)	COND. SIZE (MM)	INSULAATION THICKNESS (INCHES)	INSULATION THICKNESS (MM)	OVERALL DIAMETER (INCHES)	OVERALL DIAMETER (MM)	NET WEIGHT (LBS/KFT)	AMPACITY ** AT 75C	AMPACITY ** AT 90C
BWC-8-01XHHW-2-ALUM	8	.134	3.40	.045	1.14	.227	5.77	30	40	45
BWC-6-01XHHW-2-ALUM	6	.169	4.29	.045	1.14	.262	6.65	42	50	55
BWC-4-01XHHW-2-ALUM	4	.203	5.41	.045	1.14	.306	7.77	58	65	75
BWC-3-01XHHW-2-ALUM	3	.238	6.05	.045	1.14	.330	8.38	72	75	85
BWC-2-01XHHW-2-ALUM	2	.268	6.81	.045	1.14	.361	9.17	86	90	100
BWC-1-01XHHW-2-ALUM	1	.299	7.59	.055	1.40	4.12	10.46	110	100	115
BWC-1/0-01XHHW-2-ALUM	1/0	.336	8.53	.055	1.40	.449	11.40	134	120	135
BWC-2/0-01XHHW-2-ALUM	2/0	.376	9.55	.055	1.40	.489	12.42	163	135	150
BWC-3/0-01XHHW-2-ALUM	3/0	.423	10.74	.055	1.40	.536	13.61	200	155	175

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BWC-4/0-01XHHW-ALUM	4/0	.475	12.07	.055	1.40	.588	14.94	247	180	205
BWC-250-01XHHW-2-ALUM	250	.520	13.21	.065	1.65	.653	16.59	296	205	230
BWC-300-01XHHW-2-ALUM	300	.570	14.48	.065	1.65	.703	17.86	359	230	260
BWC-350-01XHHW-2-ALUM	350	.616	15.65	.065	1.65	.749	19.02	401	250	280
BWC-400-01XHHW-2-ALUM	400	.659	16.74	.065	1.65	.792	20.12	453	270	305
BWC-500-01XHHW-2-ALUM	500	.736	18.69	.065	1.65	.869	22.07	556	310	350
BWC-600-01XHHW-2-ALUM	600	.813	20.65	.080	2.03	.979	24.87	679	340	385
BWC-700-01XHHW-2-ALUM	700	.877	22.28	.080	2.03	1.040	26.42	782	375	425
BWC-750-01XHHW-2-ALUM	750	.908	23.06	.080	2.03	1.071	27.2	833	385	435

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BWC-800-01XHHW-2-ALUM	800	.938	23.83	.080	.203	1.110	28.19	883	395	445
BWC-900-01XHHW-2-ALUM	900	.99	25.37	.080	2.03	1.169	29.69	983	425	480
BWC-1000-01XHHW-2-ALUM	1000	1.060	26.92	.080	2.03	1.223	31.06	1090	445	500

Table data sourced from. All values are nominal and subject to correction.

**Ampacities are for not more than three conductors in a raceway, cable, or earth (directly buried), based on an ambient temperature of 30°C per Table 310.16 of the 2020 National Electrical Code.

ALL SPECIFIED PARAMETERS WITHOUT A TOLERANCE ARE NOMINAL AND SUBJECT TO VERIFICATION. BEST WIRE IS NOT RESPONSIBLE FOR UNKNOWN PERFORMANCE ATTRIBUTES THAT WERE NOT MADE KNOWN TO BEST WIRE AT THE TIME OF DESIGN.

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