



## Specification Sheet

**BWC Part Number #: BWC-250-01XHHW-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





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| Part Number           | Cond.Size<br>(AWG/<br>MCM) | COND.<br>SIZE<br>(INCHES) | COND.<br>SIZE<br>(MM) | INSULAATION<br>THICKNESS<br>(INCHES) | INSULATION<br>THICKNESS<br>(MM) | OVERALL<br>DIAMETER<br>(INCHES) | OVERALL<br>DIAMETER<br>(MM) | NET<br>WEIGHT<br>(LBS/KFT) | AMPACITY<br>** AT 75C | AMPACITY<br>** 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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