



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



Standard:

- UL 44 / CSA C22.2 No. 38 Thermoset-Insulated Wires and Cables
- UL 1685 Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables
- 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 on sizes 6 AWG and larger

Insulation:

Abrasion, heat and moisture resistant cross-linked polyethylene insulation (XLP), low coefficient of friction, "slippery" or "slick" material. It is available in ten solid colors.

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. XHHW-2/RW90 conductors may be used in wet or dry locations at temperatures not to exceed 90°C. Voltage rating for XHHW-2 conductors is 600 or 1000 volts, or 600 volts for RW90. Cable tray rated for 1/0 AWG and larger available upon request.

Conductors:

Compact bare AA-8000 series aluminum alloy, Class B

| Cable Code | Conductor Size AWG/kcmil | Conductor Diameter | | Insulation Thickness | | Overall Diameter | | Net Weight lbs/kft | Ampacity at 75°C amps | Ampacity at 90°C amps |
|-----------------|-----------------------------|--------------------|-------|----------------------|------|------------------|-------|-----------------------|-----------------------------|-----------------------------|
| | | inches | mm | inches | mm | inches | mm | | | |
| 8 AWG XHHW-2 | 8 | 0,134 | 3,40 | 0,045 | 1,14 | 0,227 | 5,77 | 30 | 40 | 45 |
| 6 AWG XHHW-2 | 6 | 0,169 | 4,29 | 0,045 | 1,14 | 0,262 | 6,65 | 42 | 50 | 55 |
| 4 AWG XHHW-2 | 4 | 0,213 | 5,41 | 0,045 | 1,14 | 0,306 | 7,77 | 58 | 65 | 75 |
| 3 AWG XHHW-2 | 3 | 0,238 | 6,05 | 0,045 | 1,14 | 0,33 | 8,38 | 72 | 75 | 85 |
| 2 AWG XHHW-2 | 2 | 0,268 | 6,81 | 0,045 | 1,14 | 0,361 | 9,17 | 86 | 90 | 100 |
| 1 AWG XHHW-2 | 1 | 0,299 | 7,59 | 0,055 | 1,40 | 0,412 | 10,46 | 110 | 100 | 115 |
| 1/0 AWG XHHW-2 | 1/0 | 0,336 | 8,53 | 0,055 | 1,40 | 0,449 | 11,40 | 134 | 120 | 135 |
| 2/0 AWG XHHW-2 | 2/0 | 0,376 | 9,55 | 0,055 | 1,40 | 0,489 | 12,42 | 163 | 135 | 150 |
| 3/0 AWG XHHW-2 | 3/0 | 0,423 | 10,74 | 0,055 | 1,40 | 0,536 | 13,61 | 200 | 155 | 175 |
| 4/0 AWG XHHW-2 | 4/0 | 0,475 | 12,07 | 0,055 | 1,40 | 0,588 | 14,94 | 247 | 180 | 205 |
| 250 AWG XHHW-2 | 250 | 0,52 | 13,21 | 0,065 | 1,65 | 0,653 | 16,59 | 296 | 205 | 230 |
| 300 AWG XHHW-2 | 300 | 0,57 | 14,48 | 0,065 | 1,65 | 0,703 | 17,86 | 359 | 230 | 260 |
| 350 AWG XHHW-2 | 350 | 0,616 | 15,65 | 0,065 | 1,65 | 0,749 | 19,02 | 401 | 250 | 280 |
| 400 AWG XHHW-2 | 400 | 0,659 | 16,74 | 0,065 | 1,65 | 0,792 | 20,12 | 453 | 270 | 305 |
| 500 AWG XHHW-2 | 500 | 0,736 | 18,69 | 0,065 | 1,65 | 0,869 | 22,07 | 556 | 310 | 350 |
| 600 AWG XHHW-2 | 600 | 0,813 | 20,65 | 0,080 | 2,03 | 0,979 | 24,87 | 679 | 340 | 385 |
| 700 AWG XHHW-2 | 700 | 0,877 | 22,28 | 0,080 | 2,03 | 1,040 | 26,42 | 782 | 375 | 425 |
| 750 AWG XHHW-2 | 750 | 0,908 | 23,06 | 0,080 | 2,03 | 1,071 | 27,20 | 833 | 385 | 435 |
| 900 AWG XHHW-2 | 900 | 0,999 | 25,37 | 0,080 | 2,03 | 1,169 | 29,69 | 983 | 425 | 480 |
| 1000 AWG XHHW-2 | 1000 | 1,06 | 26,92 | 0,080 | 2,03 | 1,223 | 31,06 | 1090 | 445 | 500 |

All values are nominal and subject to correction.

**Ampacities for not more than three conductors in raceway or cable or earth (directly buried), based on ambient temperature of 30°C per Table 310.15(B)(16) of the 2017 National Electrical Code.