

# XHHW-2 or XHHW-2 VW-1

## CROSS-LINKED POLYETHYLENE INSULATION, OPTIONAL JACKET, 600 VOLT

### SCOPE:

This specification covers Aetna Insulated Wire's standard construction for copper conductors insulated with flame retardant cross-linked polyethylene (XLP) and with an optional polyvinyl chloride (PVC) or chlorinated polyethylene (CPE) jacket. These cables are referred to in the industry and recognized by NEC as type XHHW-2.

### PRODUCT SPECIFICATIONS AND RATINGS:

- i) National Fire Protection Association (NFPA) 70, National Electric Code (NEC)
- ii) UL 44 Thermoset-Insulated Wire and Cables
- iii) ICEA S-95-658/NEMAWC70 Nonshielded Power Cables Rated 2000 Volts or Less
- iv) Federal Specification J-C-30B Cable and Wire, Electrical
- iv) See individual product sheets for specific listings and ratings

### APPLICATION:

XHHW-2 is a general purpose building wire. It is also a recognized TYPE designation in NEC Article 310 and as such this cable is suitable for use as permitted in the National Electric Code.

Generally, type XHHW-2 is a small diameter wire approved for use in circuits not exceeding 600 volts, where the maximum operating temperature does not exceed 90°C in wet or dry locations. The physical and electrical properties make it an excellent product for installation in duct or conduit, underground and where moisture may accumulate. This product is highly resistant to abrasion, ozone, chemicals and crushing. Cables with the suffix VW-1 are suitable for application where the vertical wire flame test listing is required. XHHW-2 cables sizes 1/0AWG and larger are "CT Use" rated and may be used in tray cable applications. Refer to individual product sheets for specific rating and markings.

### CONSTRUCTION DATA:

**Conductors** - The conductors consist of uncoated soft, copper strands meeting the requirements of ASTM B3. Unless otherwise specified the conductor is supplied

as Class B compressed per ASTM B8.

**Insulation** - The insulation is flame-retardant cross-linked polyethylene (XHHW-2 or XHHW-2 VW-1) extruded concentrically over the conductor to the wall thickness in accordance with the governing specifications.

**Optional Jacket** - When specified an optional protective jacket of sunlight and ozone resistant polyvinyl chloride (PVC) or chlorinated polyethylene (CPE) is extruded over the insulation.