RHH/RHW-2/USE-2 or RHH/RHW-2, VW-1
FR-CROSS-LINKED POLYETHYLENE INSULATION, 600 VOLT OPTIONAL JACKET OVERALL

SCOPE:
This specification covers Aetna Insulated Wire's standard construction for copper conductors insulated with flame retardant cross-linked polyethylene (XLP). These cables are referred to in the industry and recognized by NEC as type RHH or RHW-2 or USE-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) UL 854 Service Entrance Cables
iv) ICEA S-95-658/NEMAWC70 Nonshielded Power Cables Rated 2000 Volts or Less
v) Federal Specification J-C-30B Cable and Wire, Electrical
vi) See individual product sheets for specific listings and ratings

APPLICATION:
RHH or RHW-2 or USE-2 are recognized TYPE designations in NEC Article 310 and as such these cables are suitable for use as permitted in the NFPA70: National Electric Code. These cable types are a heavier insulated wire than XHHW-2. They are approved for use in circuits not exceeding 600 volts, where the maximum operating temperature does not exceed 90°C, in wet or dry locations. Maximum allowable emergency overload temperature is 130°C and Maximum short circuit temperature is 250°C. RHH or RHW-2 or RHW-2, are for use in applications between buildings, in conduits or ducts or in open air or direct buried. Cables with the suffix VW-1 are suitable for application where the vertical wire flame test listing is required. Type USE-2 is primarily for use in direct burial applications for Service Entrance.

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 (XLP) extruded concentrically over the conductor to the wall thickness as specified in 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.

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