

FR-CROSS-LINKED POLYETHYLENE INSULATION (RHH or RHW-2 or USE-2) 600 VOLT, STYLE 2B, 3B AND 4B DUPLEX, TRIPLEX AND QUADRUPLEX

DESCRIPTION:

This specification covers Aetna Insulated Wire's standard construction for multiple copper conductors each insulated with flame retardant cross-linked polyethylene (XLP) and cabled together without a covering or binder. The cabled conductors are each 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
- vi) See individual product sheets for specific listings and ratings

APPLICATION:

RHH, RHW-2 and USE-2 are recognized TYPE designations in NEC Article 310 and manufactured in accordance with Underwriters Laboratory (UL) 44 Thermoset Wires or (UL) 854 Service Entrance Cables as such these cables are suitable for use as permitted in the NFPA70: National Electric Code. They are approved for use in circuits not exceeding 600 volts, where the maximum operating temperature does not exceed 90°C, RHH in dry locations and both RHW-2 and USE-2 in wet or dry location. Maximum allowable emergency overload temperature is 130°C and Maximum short circuit temperature is 250°C. The cables are recommended for use in applications between buildings, in conduits or ducts or in open air (RHH dry locations only) or direct buried (not including RHH only). Type USE-2 is primarily for use in direct burial applications for Service Entrance.

CONSTRUCTION DATA AND SPECIFICATIONS:

Conductors - The conductors consist of uncoated soft, copper strands meeting the requirements of ASTM B3. Unless otherwise specified the conductor shall be 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 listed.

Conductor Coding - Phase identification is provided by number code on each insulated conductor.

Assembly - The required number of insulated conductors will be twisted per the governing specification.