

## **PREASSEMBLED AERIAL CABLE CROSS-LINKED POLYETHYLENE INSULATION (RHW-2 or USE-2) THREE CONDUCTOR, 600 VOLT**

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### **SCOPE:**

This specification covers Aetna Insulated Wire's standard construction for three conductor preassembled cables, cross-linked insulated as Type RHW-2 per NEC, cabled and bound to a supporting messenger.

### **PRODUCT SPECIFICATIONS AND RATINGS:**

- i) UL 44 Thermoset-Insulated Wires and Cables
- ii) ICEA S-95-658/NEMA WC70 Non-Shielded Power Cables 2000 V or Less
- iii) ICEA P-79-561 Guide for Selecting Aerial Cable Messengers and Lashing Wires
- iv) For product ratings see specific product data sheets

### **APPLICATION:**

Conductors are recognized as TYPE RHW-2 or USE-2 as designated in NFPA70: National Electric Code Article 310 and as such these cables are suitable for use as permitted in the code. All cables manufactured under this specification are suitable for use in circuits not exceeding 600 volts. These cables are suitable for use in the transmission and distribution of electrical energy, indoors and outdoors, for industrial and electrical utility aerial power cable systems. The cable may be used wet or dry at conductor temperatures of 90°C continuous, 130°C emergency overload and 250°C short circuit.

### **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 cross-linked polyethylene. It is extruded concentrically over the conductor to the wall thickness and requirements for Type RHW-2 as defined by NEC and the other governing specifications listed.

**Conductor Coding** - Phase identification is provided by a number code.

**Messenger** - The messenger is galvanized steel per ASTM Specification A475 or copper clad steel per ASTM B228. The messenger is sized per ICEA P-79-561.

**Assembly** - The required number of conductors will be twisted together. The messenger is laid straight, not part of the twisted group but paralleled against the group and firmly bound to the group by means of a polyethylene coated rectangular shaped galvanized steel binding strap. A 5 ft. length of messenger is left out on both ends of each length.

**Tests** - The finished cable will meet all the requirements as specified in the reference specifications.

### **AVAILABLE OPTIONS:**

- a) CPE jacket or (-40°C) PVC jacket or LLD Polyethylene jacket.
- b) Aetna 3742 non-halogen, flame resistant, low smoke, low corrosion, non toxic jacket.
- c) Stainless steel messenger/stainless binder
- d) Jacketed messenger.