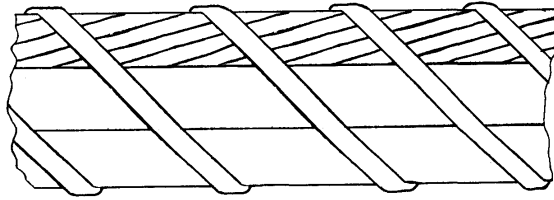


MATERIAL STANDARD**CABLE, PREASSEMBLED, PARALLEL LAY****1. Scope**

This specification covers cross-linked polyethylene-insulated aluminum conductors, prelashed to a bare aluminum AW/AAAC neutral messenger, for use on secondary distribution at 600 volts or less.

2. Industry Standards

ASTM B 230, Standard Specification for Aluminum 1350-H19 Wire for Electrical Purposes

ASTM B 398, Standard Specification for Aluminum-Alloy 6201-T81 Wire for Electrical Purposes

ICEA S-66-524 (NEMA WC 7), Cross-Linked-Thermosetting-Polyethylene Insulated Wire and Cable

NEMA WC 26, Wire and Cable Packaging

3. Requirements

Insulated Conductors The 4/0, 19-strand conductors shall be Class B concentric, stranded, 1350 grade aluminum, meeting the requirements of ASTM B 230. The insulation shall be cross-linked, thermosetting polyethylene, meeting the requirements of ICEA S-66-524, Sec. 7.4.3.2. The average insulation thickness shall be 0.060". The minimum thickness at any point shall not be less than 90 percent of the average thickness. One insulated conductor shall have continuous, molded, longitudinal ridges for identifying purposes. The color of the insulation shall be black.

Neutral Messenger The neutral messenger shall be equivalent to 1/0 AAAC conductor for current-carrying capacity, and shall consist of four 0.1490" diameter AAAC strands, and three 0.1490" diameter AW strands. Stranding shall be Class AA concentric. The AAAC strands shall be Type 6201 aluminum alloy, meeting the requirements of ASTM B 398. The AW strands shall be *Alumoweld* as manufactured by the Copperweld Steel Co. The neutral messenger shall have a minimum breaking strength of 11,000 lbs.

Assembly The cable shall be assembled so that when installed the center line of all conductors shall be in a vertical plane with the neutral messenger on top. The cable shall be lashed together with either:

1. A single 1350-H19 grade aluminum ribbon having a minimum cross-sectional area of 0.0075 sq. in. and a minimum thickness of 0.050" and the width to vary accordingly; or
2. Single #10 AWG 1350-H19 grade wire.

The lay of the lashing shall be 4" - 6".

4. Packaging:

The cable shall be wound in 3000 ft. lengths on non-returnable reels of NEMA Standard WC 26 dimension. Both ends of the cable shall be securely fastened to the reel. The cable shall be adequately protected to ensure delivery without damage. Each reel shall be legibly marked with the type, weight, and length of the cable, the name and address of the manufacturer, and City of Seattle purchase order number and receiving warehouse.

5. Approved Manufacturers:

Alcan, Alcoa, BICC/General, Copperweld, Kaiser, Pirelli, Southwire

Stock Unit: FT

Stock Number: 600612

Special Order by Engineering Only – minimum 24-week lead time.

STANDARDS COORDINATOR

STANDARDS SUPERVISOR

UNIT DIRECTOR