



APPROVED MATERIALS LIST SECTION 700 – LPC



All materials shall meet the requirements of the City of Longmont's Public Improvement Design Standards and Construction Specifications.

1. SPECIFICATION FOR METER HOUSINGS 200 AMPS OR LESS SINGLE-PHASE

A. General

- (1) Description: Socket, Meter, 5 Terminal, 200 Amp, Continuous Duty Bypass required
- (2) Unit of Measure: Each
- (3) Use: Mounting watt-hour meters for residential and commercial revenue metering
- (4) Recommended dimensions for individual meter sockets used in underground installations shall be: up to 200 amp – 19" height by 13" width

B. Standards

- (1) All sockets shall have a lever-operated bypass and shall be constructed in accordance with and conform to the following ANSI (American National Standards Institute) publications.
- (2) Meter socket bypass lever shall be constructed of metal.
- (3) Two piece lids are not allowed unless combination meter main equipment is being used.
- (4) Meter sockets shall have ringless style covers with latch capable of accommodating City seal and lock mechanism.
- (5) Meter sockets shall be suitable for outdoor installation, i.e. weatherproof (NEMA 3R, IP14, or equivalent)

C. Construction

- (1) Meter sockets shall be constructed of galvanized steel, 16-gauge minimum. Non-metallic or aluminum enclosures are not acceptable
- (2) Cover shall be of the one piece ringless type, equipped with a suitable device for closing and sealing with padlock type seals.
- (3) Finish shall be bonderized with light neutral gray baked enamel.
- (4) Knockout for load carrying cable shall be concentric type.
- (5) The general construction of the socket shall provide protection to personnel against accidental contact with energized elements of the meter and socket; and shall provide protection to the electrical components against adverse environmental weather conditions.
- (6) All three wire sockets, both single-phase and network, shall have a fifth jaw installed at the 9 o'clock position.

D. Electrical

- (1) The neutral terminal shall be electrically bonded to the enclosure by a bolted or riveted connection.
- (2) A bonding jumper in the form of a separate screw, strap, or other means shall bond the enclosure to the grounded (neutral) conductor using a #4 AWG copper jumper.
- (3) The following are pre-approved products:
 - a. Milbank part number: Z911531-AC
 - b. Durham part number: ARPO I074
 - c. Landis and Gyr #HQ Block, part number: 64 560-1



SECTION 700 APPROVED MATERIALS LIST
LONGMONT POWER AND COMMUNICATIONS (CONTINUED)



2. SPECIFICATIONS FOR 320 CLASS, NEMA 3R, IP, 14 OR EQUIVALENT METER HOUSING

A. 400 amp K-Base meter housings are not acceptable

B. General

- (1) Socket, Meter, Self-Contained, 120/240 or 120/208 volt, single-phase, rated for up to 320 amps (continuous duty) shall have jaw-clamping, lever-operated bypass mechanism that can operate as a continuous duty bypass device.
- (2) 320 class meter sockets shall be equipped with anti-inversion clips that prevent normal width terminal blades from being installed in a 320 class socket. All three wire sockets, both single-phase and network, shall have a fifth terminal installed at the 9 o'clock position.
- (3) Two piece lids are not allowed, unless combination meter main equipment is being used. Recommended dimensions for individual meter sockets used in underground installations shall be:
320 amp – 26.5" height by 13" width

C. Standards

- (1) Meter sockets should be constructed of galvanized steel, 16-gauge minimum. Non-metallic or aluminum enclosures are not acceptable.
- (2) Meter sockets shall be suitable for outdoor installation, i.e. weatherproof (NEMA 3R, IP, 14, or equivalent).
- (3) 320 class meter sockets shall be equipped with anti-inversion clips that prevent normal width terminal blades from being installed in a 320 socket.
- (4) ANSI C12.7 American National Standard Requirements for Watt-hour Meter Sockets dated 1993 or latest revision.

D. Construction

- (1) Sockets shall be constructed of 16 gauge (minimum) galvanized sheet steel.
- (2) Cover shall be equipped with a suitable device for closing and sealing with padlock type seals.
- (3) Finish shall be bonderized with light neutral gray baked enamel.
- (4) Knockout for load carrying cable shall be concentric type.
- (5) The general construction of the socket shall provide protection to personnel against accidental contact with energized elements of the meter and socket; and shall provide protection to the electrical components against adverse environmental weather conditions.

E. Electrical

- (1) The neutral terminal shall be electrically bonded to the enclosure by means of a bolted or riveted connection.