

Appalachian Electric Cooperative

Electrical Service Installation Guide

Mobile Home or Tiny Home Overhead To Meter Pole

100-200 Amp, 120/240 Volt Single Phase

MOBILE HOME OR TINY HOME

All modular homes, including tiny homes, **MUST** include a green certification label.

Site built homes must be built by licensed contractor in the State of Tennessee.

All anchoring must be inspected.

Install eye bolt 9 inches from top of pole (eye bolt can be picked up at AEC Service Dept.)

Point of attachment minimum of 12 feet 6 inches above ground level. If properly installed, the attachment point will be 14 feet 9 inches above ground level.

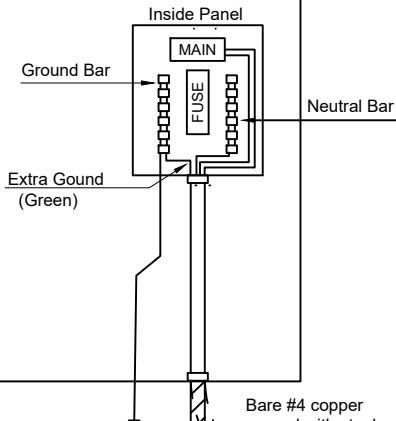
Customer wires must extend at least 18" beyond weatherhead. Neutral service conductor must be clearly identified

Conduit strap

Rigid or schedule 40 PVC conduit

| COPPER | | 100AMP | 200AMP | 225AMP |
|--------|------------|--------|--------|--------|
| | CONDUCTORS | #2 | #2/0 | 3/0 |
| | NEUTRAL | #4 | #1/0 | 2/0 |
| | CONDUIT | 1 1/4" | 2" | 2" |

| ALUMINUM | | 100AMP | 200AMP | 225AMP |
|----------|------------|--------|--------|----------|
| | CONDUCTORS | #1 | #4/0 | 250KCMIL |
| | NEUTRAL | #2 | #2/0 | 4/0 |
| | CONDUIT | 1 1/4" | 2" | 2 1/2" |



Neutral Bar

Weatherproof connectors
Meter base 5 feet 6 inches from ground level.

Do not use blocks or wood behind meter base.

UL approved weatherproof outside main disconnect with space for additional breakers. Must be located within 30 feet of mobile home.

Extra Ground (Green)
#6 Copper

Bare #4 copper ground with staples.

12 inches to 24 inches metal flex or slip joint conduit on trailer end of run

Optional flex conduit if mobile home is within 12 inches of meter pole.

Use schedule 80 PVC from breaker panel to 18 inches below ground level, then change to schedule 40 PVC 18 inches below ground level or 24 inches direct burial.

A 20 foot treated pole (6 inch x 6 inch square or round) set 4 feet 6 inches in ground. Backfill **MUST** be thoroughly **tamped** the full depth of the hole in **6 inches increments**. Rake the pole 3 inches away from the direction of the service wire.

#6 Cu minimum

Two 5/8 inch x 8 foot copper or galvanized ground rod with approved clamp. (Below ground level). See Note 4.

Not less than 6 feet

Notes:

- The service installation must meet NEC, NESC and AEC requirements for connections. This guideline is not a substitution or is not intended to convey all the requirements of the NEC or NESC.
- The service pole installation is to be examined by the State Deputy Wiring Inspector and sealed as "PASSED" prior to being connected by AEC.
- The customer is to contact the AEC Engineering Dept. to have the meter pole spotted. AEC reserves the right to have the customer relocate the meter pole if the customer has disregarded this requirement.
- Per the NEC, the customer may elect to attach the service pole ground to the foundation footer rebar in lieu of a 2nd ground rod.

| APPALACHIAN ELECTRIC COOPERATIVE | A E C | DESCRIPTION | BY | CKD | APR | DATE | REV | USE | PAGE |
|----------------------------------|-------------|--|-----|-----|-----|--------|--------|-----|-------|
| | | Mobile Home Service Guideline (Overhead to meter pole) | MLM | AWN | - | 1/2/76 | 5/1/22 | CE | C1100 |