

ARAB ELECTRIC COOPERATIVE, INC.

The Cooperative will provide an overhead service to customer's service equipment for a mobile home in accordance with its policies covering such extensions. The customer's service equipment shall be located on a pole adjacent to, but not in or on the mobile home and shall be rated at not less than 100 amperes and has to match inside panel amps.

The pole, service equipment and feeder assembly must be properly sized and installed as shown on the specifications. The installation must conform to the current edition of the National Electric Code, particularly Article 550.

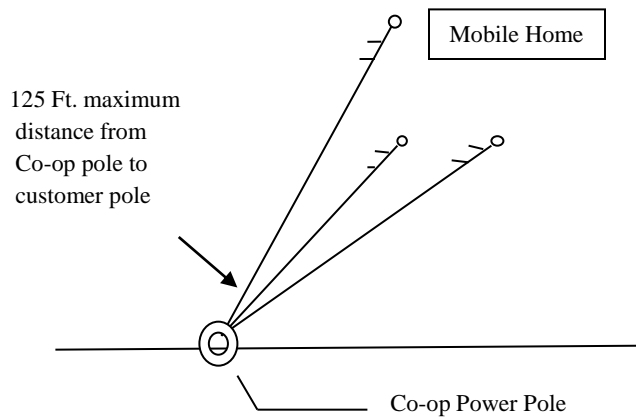
Minimum Conductor Sizes (Insulation type must be RH, RHH, RHW, THHW, THW, THWN, THHN, XHHW, or USE if in conduit above ground. Insulation types THHW, THW, THWN, XHHW, and USE are acceptable in conduit below grade.

Outside Main Disconnect	Maximum Inside Main	Service Entrance and Feeder Conductors	Equipment Grounding Conductor	Grounding Electrode Conductor (to rod)	Minimum Conduit Size
100 AMP	100 AMP	2-#2 Aluminum, 1-#2 Neutral or 2-#2 Copper, 1-#2 Neutral	1-#4 Stranded Insul. Copper Green	#4 Bare Copper	1-1/4 inch
200 AMP	200 AMP	2-4/0 Aluminum, 1-#2/0 Neutral or 2-3/0 Copper, 1-#1/0 Neutral	1-#4 Stranded Insul. Copper Green	#4 Bare Copper	2 inch

Four (4) conductors are required between the outside main disconnect and the inside main in the trailer. All four (4) of the conductors must be insulated. One of the 3 insulated conductors must be identified as the neutral conductor. The fourth wire will be a green #4 stranded copper equipment grounding conductor. (NEC 550-24a)
All four (4) conductors must be inside the proper size rigid metal conduit or Schedule 40 Rigid PVC Conduit as per Spec.

Some Acceptable Locations of Customer Pole

The Cooperative's overhead electric service drop will not be installed over the mobile home. The Customer pole should be in direct line with, and not over 125 feet from the Cooperative power pole. The Customer pole must also be located not more than 30 feet from the side of the mobile home. **The Customer should not install their service pole without first checking with the Cooperative's Engineering Department.**



REQUIREMENTS FOR SINGLE PHASE ELECTRIC SERVICE TO MOBILE HOMES