TOMBIGBEE ELECTRIC COOPERATIVE

Service Entrance Conductor Sizes

Table is for Type RHH, RHW, RHW-2, THHN, THHW, THW, THW-2, THWN, THWN-2 XHHW, XHHW-2, SE, USE, USE-2, Insulated Conductors Rated at 75°c

	Control Contro		
	COPPER CONDUCTORS	ALUMINUM CONDUCTORS	
Size Entrance Switch	Recommended Conductor Size	Recommended Conductor Size	Conduit Size
SINGLE PHA	SE SERVICE ENTRANCE CABLE	2 CONDUCTORS, 1 NEUTRAL(F	RESIDENTAL)
100	#2	#1/0	
200	#2/0	#4/0	8
SINGLE P	HASE SERVICE IN CONDUIT 2 C	CONDUCTORS, 1 NEUTRAL(RES	IDENTAL)
100	#2	#1/0	2"
200	#2/0	#4/0	2"
400	500 MCM	750 MCM	4"
600	2 runs 350 MCM	2 runs 500 MCM	2@4"
TI	REE PHASE SERVICE IN COND	UIT 3 CONDUCTORS, 1 NEUTRA	Ĺ
100	#2	#1/0	2"
200	#3/0	#250 MCM	2"(2-1/2" w/Aluminum
400	500 MCM	750 MCM	4"
600	2 runs 350 MCM	2 runs 500 MCM	2@4"

GROUNDING ELECTRO	DE CONDUCTOR SIZES	
Size Entrance Switch	Size Of Grounding Electrode Conductor	
	COPPER	
100 Amp	#6	
200 Amp	#4	
400 Amp	#1/0	
600 Amp	#2/0	

- 1. ALUMINUM GROUNDING ELECTRODE CONDUCTORS SHALL <u>NOT</u> BE USED WHERE IN DIRECT CONTACT WITH MASONRY OR THE EARTH OR WHERE SUBJECT TO CORROSIVE CONDITIONS. ALUMINUM GROUNDING CONDUCTORS SHALL <u>NOT</u> BE INSTALLED WITHIN 18" OF THE EARTH.
- 2. ROD-TYPE ELECTRODES OF STAINLESS STEEL AND COPPER, OR ZINC COATED STEEL SHALL BE AT LEAST 5/8" IN DIAMETER. RODS SHALL BE NOT LESS THAN 8' IN LENGTH.

 3. IT IS RECOMMENDED THAT THE GROUNDING ELECTRODE CONDUCTOR BE RUN TO THE SERVICE NEUTRAL.
- 4. GROUND CLAMPS SHALL BE LISTED FOR THE MATERIALS OF THE GROUNDING ELECTRODE AND THE GROUNDING ELECTRODE CONDUCTOR, AND SHALL ALSO BE LISTED FOR DIRECT SOIL BURIED OR CONCRETE ENCASEMENT.
- 5. IF A SINGLE ROD ELECTRODE HAS A RESISTANCE OF LESS THAN 25 OHMS, SECOND ROD IS REQUIRED NOT LESS THAN 6' APART. BOTH RODS SHALL BE BONDED TO CREATE A SINGLE POINT OF GROUNDING.