USE: General Customer information for grounding and bonding.

MINUMUM SIZE OF BONDING, EQUIPMENT GROUNDING, GROUNDING ELECTRODE CONDUCTORS AND GROUND BUS

TABLE 250.122 Minimum Size Equipment Grounding Conductors for Grounding Raceway and Equipment		
Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc., Not Exceeding (Amperes)	Copper	Aluminum or Copper-Clad Aluminum
15	14	12
20	12	10
30	10	8
40	10	8
60	10	8
100	8	6
200	6	4
300	4	2
400	3	1
500	2	1/0
600	1	2/0
800	1/0	3/0
1000	2/0	4/0
1200	3/0	250
1600	4/0	350
2000	250	400
2500	350	600
3000	400	600
4000	500	800
5000	700	1200
6000	800	1200
		Size (AWG or kcmil)

NOTES:

1. For sizing bonding conductor for gas line, per NEC 250.014.
2. For sizing any bond conductor required on the load side of fuses or circuit breakers per NEC 250.102.

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USE: General Customer information for grounding and bonding.

MINUMUM SIZE OF BONDING, EQUIPMENT GROUNDING, GROUNDING ELECTRODE CONDUCTORS AND GROUND BUS

TABLE 250.66 Grounding Electrode Conductor for Alternating Current System			
Size of Largest Underground Service - Entrance Conductor or Equivalent Area for Parallel Conductors (AWG/kcmil)		**Size of Grounding Electrode Conductor (AWG/kcmil)**	
Copper	Aluminum or Copper-Clad Aluminum	Copper	Aluminum or Copper-Clad Aluminum
2 or smaller	1/0 or smaller	8	6
1 or 1/0	2/0 or 3/0	6	4
2/0 or 3/0	4/0 or 250	4	2
Over 3/0 through 350	Over 250 through 500	2	1/0
Over 350 through 600	Over 500 through 900	1/0	3/0
Over 600 through 1100	Over 900 through 1750	2/0	4/0
Over 1100	Over 1750	3/0	250
Review the notes below this table and in the NEC			

NOTES:

1. For metal water pipe bonding refer to the NEC 250.104
2. For sizing main bonding jumper from equipment grounding bus to neutral bus refer to the NEC 250.28.
3. Where exposed, a grounding electrode conductor or its enclosure shall be securely fastened to the surface on which it is carried. A #4 AWG or larger copper or aluminum grounding electrode conductor shall be protected where exposed to physical damage. A #6 AWG grounding electrode conductor that is free from exposure to physical damage shall be permitted to be run along the surface of the building construction without metal covering or protection where it is securely fastened to the construction; otherwise, it shall be in rigid metal conduit, intermediate metal conduit, rigid nonmetallic conduit, electrical metallic tubing, or cable armor. Grounding electrode conductors smaller than #6 AWG shall be in rigid metal conduit, intermediate metal conduit, rigid nonmetallic conduit, electrical metallic tubing, or cable armor. Refer to the NEC 250.64

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