

NEC Table 250.66 Grounding Electrode for Alternating-Current Systems

Size of Largest Ungrounded Service-Entrance Conductor

Size of Grounding Electrode

Conductor or Equivalent Area for Parallel Conductors (AWG/kcmil)		(AWG/kcmil)	
		BCEC Requires Grounds No Smaller Than # 6 Copper	
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 – 350	Over 250 – 500	2	1/0
Over 350 – 600	Over 500 – 900	1/0	3/0
Over 600 – 1100	Over 900 – 1750	2/0	4/0
Over 1100	Over 1750	3/0	250

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 (Amperage)	Size (AWG or kcmil)	
	Copper	Aluminum or Copper – Clad Aluminum
	BCEC Requires Grounds No Smaller than #6 Copper	

15	14	12
20	12	10
30	10	8
40	10	8
6	10	8
10	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