

This chart is only to be used by qualified individuals as a reference. The user is responsible to confirm all sizing and take all unique project specific factors into account.

LOAD	sets	Wire - cu	equipment ground - cu	CONDUIT	BREAKER SIZE	terminal rating
20 amps	1	4 # 12	12	1/2"	20 amps	60
30 amps	1	4 # 10	10	3/4"	30 amps	60
60 amps	1	4 # 4	10	1-1/4"	60 amps	60
100 amps	1	4 # 1	8	1-1/2"	100 amps	60
150 amps	1	4 # 1/0	6	2"	150 amps	75
200 amps	1	4 # 3/0	6	2"	200 amps	75
225 amps	1	4 # 4/0	4	2-1/2"	225 amps	75
250 amps	1	4 # 250 kcmil	4	2-1/2"	250 amps	75
380 amps	1	4 # 500 kcmil	3	4"	400 amps	75
381 - 400 amps	1	4 # 600 kcmil	3	4"	400 amps	75
600 amps	2	4 # 350 kcmil	1	3"	600 amps	75
760 amps	2	4 # 500 kcmil	1/0	4"	800 amps	75
761 - 800 amps	2	4 # 600 kcmil	1/0	4"	800 amps	75
1000 amps	3	4 # 400 kcmil	2/0	3"	1000 amps	75
1200 amps	4	4 # 350 kcmil	3/0	3"	1200 amps	75
1600 amps	4	4 # 600 kcmil	4/0	4"	1600 amps	75

240.4(B) - The next higher ampacity standard OCPD can be used when it is 800 amps or less. Even though you can use a 400 amp breaker for 500 mcm the load can not exceed the wire rating of 380 amps. No derating factors have been taken into account.