



Wire Ampacity Chart

Residential Service, 3-Wire, Single Phase

For dwelling units, conductors, as listed below, shall be permitted to be used as 120/240 volt, 3 wire, single phase service entrance conductors, service lateral conductors, and feeder conductors that serve as the main power feeder to dwelling unit and are installed in raceway or cable with or without an equipment grounding conductor.

Conductor Types and Sizes

Copper AWG	Aluminum or Copper-Clad Aluminum AWG	Service or Feeder Rating in Amps
4	2	100
3	1	110
2	1/0	125
1	2/0	150
1/0	3/0	175
2/0	4/0	200
3/0	250 kcmil	225

Allowable Ampacities, Insulated Conductors

Ampacities for insulated wires or cables rated 0-2000 volts and not more than three conductors in raceway or cable or earth. * Caution: Although conductors are rated 90°C; most equipment to which they connect is not. Consult listing and/or equipment before using 90°C ampacities.

Copper				Aluminum			
Size (AWG or kcmil)	TW, UF-B, NM-B (60°C)	RHW, THW, THWN, XHHW, SE, USE (75°C)	RHH, RHW-2, THHN, THW-2, THWN-2, XHHW-2, USE-2, SE/XHHW-2 CDRS (90°C)	TW, UF-B, NM-B (60°C)	RHW, THW, THWN, XHHW, SE, USE (75°C)	RHH, RHW-2, THHN, THW-2, THWN-2, XHHW-2, USE-2, SE/XHHW-2 CDRS (90°C)	Size (AWG or kcmil)
14	15	15	15	-	-	-	14
12	20	20	20	15	15	15	12
10	30	30	30	25	25	25	10
8	40	50	55	30	40	45	8
6	55	65	75	40	50	60	6
4	70	85	95	55	65	75	4
3	85	100	110	65	75	85	3
2	95	115	130	75	90	100	2
1	110	130	150	85	100	115	1
1/0	125	150	170	100	120	135	1/0
2/0	145	175	195	115	135	150	2/0
3/0	165	200	225	130	155	175	3/0
4/0	195	230	260	150	180	205	4/0
250	215	255	290	170	205	230	250
300	240	285	320	190	230	255	300
350	260	310	350	210	250	280	350
400	280	335	380	225	270	305	400
500	320	380	430	260	310	350	500
600	355	420	475	285	340	385	600
700	385	460	520	310	375	420	700
750	400	475	535	320	385	435	750
800	410	490	555	330	395	450	800
900	435	520	585	355	425	480	900
1000	455	545	615	375	445	500	1000