



ALLOWABLE CONDUCTOR AMPACITIES

Based on Ambient Temperature of 30°C. 2012 Canadian Electrical Code.

| AWG or KCMIL | Copper Conductors | | | | Aluminum Conductors | | | |
|-----------------|-------------------|---------|------------------|---------|---------------------|---------|------------------|---------|
| | 75° C Ampacities | | 90° C Ampacities | | 75° C Ampacities | | 90° C Ampacities | |
| | Free Air | Raceway | Free Air | Raceway | Free Air | Raceway | Free Air | Raceway |
| | Table 1 | Table 2 | Table 1 | Table 2 | Table 3 | Table 4 | Table 3 | Table 4 |
| 14 [^] | 30 | 20 | 35 | 25 | -- | -- | -- | -- |
| 12 [^] | 35 | 25 | 40 | 30 | 30 | 20 | 35 | 25 |
| 10 [^] | 50 | 35 | 55 | 40 | 40 | 30 | 40 | 35 |
| 8 | 70 | 50 | 80 | 55 | 55 | 40 | 60 | 45 |
| 6 | 95 | 65 | 105 | 75 | 75 | 50 | 80 | 55# |
| 4 | 125 | 85 | 140 | 95 | 100 | 65 | 115 | 75 |
| 3 | 145 | 100 | 165 | 115 | 115 | 75 | 130 | 85 |
| 2 | 170 | 115 | 190 | 130 | 135 | 90 | 150 | 100 |
| 1 | 195 | 130 | 220 | 145 | 155 | 100 | 175 | 115 |
| 1/0 | 230 | 150 | 260 | 170 | 180 | 120 | 205 | 135 |
| 2/0 | 265 | 175 | 300 | 195# | 210 | 135 | 235 | 150 |
| 3/0 | 310 | 200 | 350 | 225 | 240 | 155 | 270 | 175 |
| 4/0 | 360 | 230 | 405 | 260 | 280 | 180 | 315 | 205 |
| 250 | 405 | 255 | 455 | 290 | 315 | 205 | 355 | 230 |
| 300 | 445 | 285 | 500 | 320 | 350 | 230 | 395 | 260 |
| 350 | 505 | 310 | 570 | 350 | 395 | 250 | 445 | 280 |
| 400 | 545 | 335 | 615 | 380 | 425 | 270 | 480 | 305 |
| 500 | 620 | 380 | 700 | 430 | 485 | 310 | 545 | 350 |
| 600 | 690 | 420 | 780 | 475 | 545 | 340 | 615 | 385 |
| 750 | 785 | 475 | 885 | 535 | 620 | 385 | 700 | 435 |
| 1000 | 935 | 545 | 1055 | 615 | 750 | 445 | 845 | 500 |

[^] See rule 14-104(2)

NOTE: # For wire 120/240 V and 120/208 V service conductors for single dwellings, or for feeder conductors supplying single dwelling units of row housing, of apartments and similar buildings, and sized in accordance with rules 8-200(1), 8-200(2), and 8-202(1), the allowable ampacity for sizes No. 2/0 AWG copper shall be 200 Amps, and No. 6 AWG aluminum shall be 60 Amps. In this case the 5% adjustment of Rule 8-106(1) cannot be applied.

Information is provided as a guideline only. Check your local code.

