

# 12 Volt Cable Sizing Chart

## Chart A

Conductor Sizes (mm <sup>2</sup> ) for 3% Volt Drop																			
Amps	2m	4m	6m	8m	10m	12m	14m	16m	18m	20m	22m	24m	26m	28m	30m	35m	40m	45m	50m
5	0.75	1.5	1.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0
10	1.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	16.0	25.0	25.0	25.0	25.0	35.0
15	2.5	4.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	16.0	25.0	25.0	25.0	25.0	35.0	35.0	35.0	50.0
20	2.5	6.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	25.0	25.0	35.0	35.0	35.0	50.0	50.0	50.0	70.0
25	4.0	6.0	10.0	10.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	35.0	35.0	50.0	50.0	50.0	70.0	70.0	70.0
30	4.0	6.0	10.0	16.0	16.0	25.0	25.0	35.0	35.0	35.0	35.0	50.0	50.0	50.0	70.0	70.0	70.0	95.0	95.0
40	6.0	10.0	16.0	25.0	25.0	35.0	35.0	35.0	50.0	50.0	50.0	70.0	70.0	70.0	70.0	95.0	95.0	120	120
50	6.0	16.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0	70.0	70.0	70.0	95.0	95.0	95.0	120	120	150	150
60	10.0	16.0	25.0	35.0	35.0	50.0	50.0	70.0	70.0	70.0	70.0	95.0	95.0	95.0	120	120	150	150	185
70	10.0	16.0	25.0	35.0	50.0	50.0	70.0	70.0	70.0	95.0	95.0	120	120	120	150	150	185	185	240
80	10.0	16.0	35.0	35.0	50.0	70.0	70.0	70.0	95.0	95.0	95.0	120	120	150	150	185	185	240	240
90	10.0	25.0	50.0	50.0	50.0	70.0	70.0	95.0	95.0	120	120	120	150	185	185	240	240	300	300
100	16.0	25.0	50.0	50.0	70.0	95.0	95.0	120	120	150	150	150	185	185	240	240	300	300	400

## Chart B

Conductor Sizes (mm <sup>2</sup> ) for 10% Volt Drop																			
Amps	2m	4m	6m	8m	10m	12m	14m	16m	18m	20m	22m	24m	26m	28m	30m	35m	40m	45m	50m
5	0.75	0.75	0.75	0.75	1.0	1.0	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	6.0
10	0.75	0.75	1.0	1.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	6.0	6.0	6.0	6.0	6.0	10.0	10.0	10.0
15	0.75	1.0	1.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	6.0	10.0	10.0	10.0	10.0	10.0	16.0	16.0
20	0.75	2.5	2.5	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	16.0	16.0	25.0	25.0
25	1.0	2.5	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	25.0	25.0	25.0
30	1.0	2.5	4.0	6.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	16.0	25.0	25.0	25.0	25.0
40	1.5	4.0	4.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	16.0	25.0	25.0	25.0	25.0	35.0	35.0	35.0
50	2.5	4.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0	35.0	50.0	50.0
60	2.5	6.0	6.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	25.0	35.0	35.0	35.0	35.0	50.0	50.0	50.0
70	2.5	6.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	35.0	35.0	35.0	50.0	50.0	50.0	50.0
80	4.0	6.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	35.0	35.0	50.0	50.0	50.0	70.0	70.0	70.0
90	4.0	10.0	10.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	35.0	50.0	50.0	50.0	50.0	70.0	70.0	70.0	95.0
100	4.0	10.0	10.0	16.0	25.0	25.0	25.0	35.0	35.0	35.0	50.0	50.0	50.0	50.0	50.0	70.0	70.0	95.0	95.0

Note: For DC applications the distance of cable run measured is from the source to device and back to source.

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