



Minimum Required Charging Cable Gauge

NOTES

- All cable sizes in the table are AWG (American Wire Gauge)
- Cable sizes are based on 0.3 volt drop for a new vehicle with a maximum of 0.5 volt drop over the life of the vehicle
- On a 3-wire systems, the maximum voltage drop in the #2 lead must not exceed 0.2 volts failure modes listed (applicable in US and Canada)

AWG TO METRIC CONVERSIONS

AWG Number	Inches	mm
6/0 (000000)	0.580	14.73
5/0 (00000)	0.517	13.12
4/0 (0000)	0.460	11.7
3/0 (000)	0.410	10.4
2/0 (00)	0.365	9.26
1/0 (0)	0.325	8.25
1	0.289	7.35
2	0.258	6.54
3	0.229	5.83
4	0.204	5.19
5	0.182	4.62
6	0.162	4.11
7	0.144	3.66
8	0.128	3.26
9	0.114	2.91
10	0.102	2.59
11	0.0907	2.30
12	0.0808	2.05
13	0.0720	1.83
14	0.0641	1.63
15	0.0571	1.45
16	0.0508	1.29

AWG 12 VOLT CABLES

Output in Amps	Cable Length (must include ground return)							
	up to 4 feet	4-7 feet	7-10 feet	10-13 feet	13-16 feet	16-19 feet	19-22 feet	22-25 feet
0 - 20	16	12	12	10	10	8	8	8
20 - 35	12	10	8	8	6	6	6	4
35 - 50	10	8	8	6	6	4	4	4
50 - 65	8	8	6	4	4	4	2	2
65 - 85	8	6	4	4	2	2	2	1/0
85 - 105	8	6	4	2	2	1/0	1/0	1/0
105 - 125	6	4	4	2	1/0	1/0	1/0	1/0
125 - 150	6	4	2	2	1/0	1/0	2/0	2/0
150 - 175	6	4	2	1/0	1/0	2/0	2/0	3/0
175 - 200	4	2	1/0	1/0	2/0	2/0	3/0	3/0
200 - 250	4	2	1/0	2/0	2/0	3/0	4/0	4/0
250 - 300	4	2	1/0	2/0	3/0	4/0	2-2/0	2-2/0
300 - 350	2	2	1/0	2/0	3/0	4/0	4/0	2-2/0
350 - 400	2	1	1/0	3/0	3/0	4/0	2-2/0	2-2/0
400 - 450	1	1/0	2/0	3/0	4/0	2-2/0	2-3/0	2-3/0
450 - 500	1	1/0	2/0	3/0	4/0	2-2/0	2-3/0	2-3/0

Tech Support 800-372-0222

If you need assistance with part number identification or electrical system troubleshooting, we're here to help.