

MINIMUM REQUIRED CHARGING CABLE GAUGE

| 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 |

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 |



For Customer Service or Technical Assistance call 800-372-0222

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