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**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

| 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  |

## 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      |

**Tech Support 800-372-0222**

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



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