CHART NO. 1 - SELECTING A SUITABLE WIRE GAUGE BASED ON AMPERAGE LOAD AND LENGTH OF THE WIRE

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This guide does not address voltage drop that occurs in wiring due to its gauge and length.

Common Comparative Definitions:

"Amperage"equates to the "flow"of electrons in a wire.
"Voltage" equates to the pressure present in the flow of electrons in a wire.

Wire Gauge Selection Table 12 Volt Circuit

AMPS	3'	5'	7'	10'	15'	20'	25'
0 to 5	18	18	18	18	18	18	18
6	18	18	18	18	18	18	18
7	18	18	18	18	18	18	18
8	18	18	18	18	18	16	16
10	18	18	18	18	16	16	16
11	18	18	18	18	16	16	14
12	18	18	18	18	16	16	14
15	18	18	18	18	14	14	12
18	18	18	16	16	14	14	12
20	18	18	16	16	14	12	10
22	18	18	16	16	12	12	10
24	18	18	16	16	12	12	10
30	18	16	16	14	10	10	10
40	18	16	14	12	10	10	8
50	16	14	12	12	10	10	8
100	12	12	10	10	6	6	4
150	10	10	8	8	4	4	2
200	10	8	8	6	4	4	2