



WIRE & CABLE, INC.

Distributor / Wholesale Supplier of Electrical Products
Wire • Cable • Cord • Terminals • Accessories

877-4MY-WIRE

Wire Selection Chart																
Total Approx Circuit Amp.	Total Circuit Watts	Total Candle Power	Wire Gauge (For length in feet)													
			12V	12V	12V	3'	5'	7'	10'	15'	20'	25'	30'	40'	50'	75'
1	12	6	18	18	18	18	18	18	18	18	18	18	18	18	18	18
1.5	18	10	18	18	18	18	18	18	18	18	18	18	18	18	18	18
2	24	16	18	18	18	18	18	18	18	18	18	18	18	18	16	16
3	36	24	18	18	18	18	18	18	18	18	18	18	18	18	14	14
4	48	30	18	18	18	18	18	18	18	18	18	18	16	16	12	12
5	60	40	18	18	18	18	18	18	18	18	18	18	16	14	12	12
6	72	50	18	18	18	18	18	18	18	16	16	16	16	14	12	10
7	84	60	18	18	18	18	18	18	18	16	16	16	14	14	10	10
8	96	70	18	18	18	18	18	18	18	16	16	16	14	12	10	10
10	120	80	18	18	18	18	18	16	16	16	16	14	12	12	10	10
11	132	90	18	18	18	18	18	16	16	16	14	14	12	12	10	8
12	144	100	18	18	18	18	18	16	16	14	14	12	12	12	10	8
15	180	120	18	18	18	18	18	14	14	12	12	12	12	10	8	8
18	216	140	16	16	16	16	16	14	14	12	12	10	10	10	8	8
20	240	160	16	16	16	16	16	14	12	10	10	10	10	10	8	6
22	264	180	14	14	14	14	14	12	12	10	10	10	10	8	6	6
24	288	200	14	14	14	14	14	12	12	10	10	10	10	8	6	6
30	360		12	12	12	12	12	10	10	10	10	10	10	6	4	4
40	480		10	10	10	10	10	10	10	8	8	6	6	6	4	2
50	600		8	8	8	8	8	8	8	8	8	6	6	6	2	2
100	1200		4	4	4	4	4	4	4	4	4	4	4	2	1	1/0
150	1800		2	2	2	2	2	2	2	2	2	2	2	1	2/0	2/0
200	2400		1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	4/0	4/0

How to use this chart:

1. Measure length of wire in circuit-chart applies to ground return. Two wire circuits will be total of both wit lengths. Be sure to include both vehicles on auto and trailer applications.
2. Find the total amperes, watts or candle power and choose nearest value in proper column.
3. Move horizontally to proper footage column and find nearest wire gauge.

Based on maximum of 10% voltage drop @ 100F (in free air).

Note:

18 gauge applications above the thick line area could be 20 gauge electrically, but 18 gauge is recommended for tensile strength of wire.

*“Helping businesses succeed
 by being the quickest, most efficient and professional supplier
 of electrical wire, cable, and related accessories”*

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