

How To Select Size Of Electric Cable

Voltage Drop is the primary consideration in selecting the proper electrical wire size. The length of wire in a circuit is the major contributing factor to voltage drop. The table below may be used in determining adequate wire gauge sizes for specific lengths of cable when the amperage requirements are known.

12-Volt System Amperes (Approx.)	Up To 30 Feet	40 Feet	50 Feet	60 Feet	80 Feet	100 Feet	120 Feet
	Gauge	Gauge	Gauge	Gauge	Gauge	Gauge	Gauge
1	14	14	14	14	14	14	14
2	14	14	14	14	14	14	14
3	14	14	14	14	14	14	12
4	14	14	14	14	14	12	12
5	14	14	14	14	12	12	12
6	14	14	14	14	12	12	10
7	14	14	14	12	12	10	10
8	14	14	12	12	10	10	10
10	14	12	12	12	10	10	8
11	14	12	12	10	10	8	8
12	14	12	12	10	10	8	8
15	12	12	10	10	8	8	8
18	12	10	10	8	8	8	8
20	12	10	10	8	8	8	6
25	12	10	8	8	8	6	6
30	12	10	8	8	8	6	6

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