

## AUTOMOTIVE ELECTRIC WIRING

Wire Gauge AWG	Maximum Wire Length (Feet) for Car Wiring (1)					
	Current Load in Amps @ 12 Volts DC (2)					
	1	2	4	6	8	10
<b>20</b>	106	53	26	17	13	<b>nr</b>
<b>18</b>	150	75	37	25	18	15
<b>16</b>	224	112	56	37	28	22
<b>14</b>	362	181	90	60	45	36
<b>12</b>	572	286	143	95	71	57
<b>10</b>	908	454	227	151	113	90
<b>8</b>	1452	726	363	241	181	145
<b>6</b>	2342	1171	585	390	292	234
<b>4</b>	3702	1851	925	616	462	370
<b>2</b>	6060	3030	1515	1009	757	606
<b>1</b>	7692	3846	1923	1280	961	769
<b>0</b>	9708	4854	2427	1616	1213	970

Wire Gauge AWG	Maximum Wire Length (Feet) for Car Wiring (1)					
	Current Load in Amps @ 12 Volts DC (2)					
	12	15	20	50	100	200
<b>20</b>	<b>nr</b>	<b>nr</b>	<b>nr</b>	<b>nr</b>	<b>nr</b>	<b>nr</b>
<b>18</b>	12	<b>nr</b>	<b>nr</b>	<b>nr</b>	<b>nr</b>	<b>nr</b>
<b>16</b>	18	14	<b>nr</b>	<b>nr</b>	<b>nr</b>	<b>nr</b>
<b>14</b>	30	24	18	<b>nr</b>	<b>nr</b>	<b>nr</b>
<b>12</b>	47	38	28	<b>nr</b>	<b>nr</b>	<b>nr</b>
<b>10</b>	75	60	45	<b>nr</b>	<b>nr</b>	<b>nr</b>
<b>8</b>	120	96	72	29	<b>nr</b>	<b>nr</b>
<b>6</b>	194	155	117	46	23	<b>nr</b>
<b>4</b>	307	246	185	74	37	<b>nr</b>
<b>2</b>	503	403	303	121	60	30
<b>1</b>	638	511	384	153	76	38
<b>0</b>	805	645	485	194	97	48
<b>000</b>	1296	1039	781	312	156	78

(1) Maximum recommended wire lengths are based on a ½ volt maximum voltage drop over the length of the wire. If you want to determine lengths based on a different drop, simply multiply the table value by the appropriate factor ( for example, if you want the values for a 1 volt drop, multiply the table value by 2).

(2) If you want the lengths for a 6 volt or 24 volt systems, multiply the listed amperage by 0.5 for 6 volt or 2 for 24 volt and then select the wire length from the table.

“nr” means wire size is not recommended at selected current. To be safe, always pick one wire size larger than you need for the specified length at the required current level