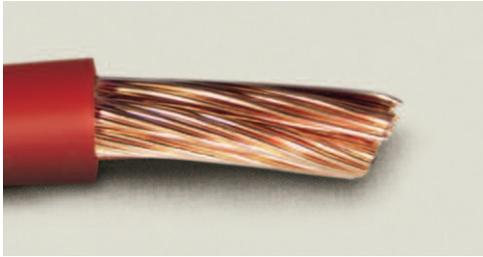


# Battery & Welding Cable



PVC Jacketed Battery Cable – Red



PVC Jacketed Battery Cable – Black



Rubber Jacketed Battery Cable – Black



Neoprene Jacketed Welding Cable – Black

## PVC Jacketed Battery Cable

- SAE specification J1127
- PVC insulation
- 100% copper conductor
- Finely stranded
- 50V rating
- Oil resistant
- Excellent flame retardant characteristics
- Temperature rating: -40°C to 85°C (-40°F to 185°F)

### Red

Gauge	Outside Diameter	Stranding	25' (7.6 m)	100' (30.5 m)	Bulk Spool*
6	.272"	7 x 18 x .0142"	769233	769242	769242B
4	.350"	7 x 27 x .0142"	769234	769243	769243B
2	.460"	19 x 16 x .0142"	769235	769244	769244B
1	.460"	19 x 21 x .0142"	769236	769245	769245B
1/0	.510"	19 x 26 x .0142"	769237	769246	769246B
2/0	.570"	19 x 22 x .0179"	769238	769247	769247B

\* Call elecDirect.com for exact spool lengths on cost saving bulk spools. Customers will be billed by the foot for the exact amount that is on the spool.

### Black

Gauge	Outside Diameter	Stranding	25' (7.6 m)	100' (30.5 m)	Bulk Spool*
4	.350"	7 x 27 x .0142"	*669226	*769226	*769226B
2/0	.570"	19 x 22 x .0179"	*669230	*769230	*769230B

\* Call elecDirect.com for exact spool lengths on cost saving bulk spools. Customers will be billed by the foot for the exact amount that is on the spool.

**\*NEW**

## Rubber Jacketed Battery Cable

- SAE specification J1127
- Black SGR Rubber insulation
- 100% copper conductor
- Finely stranded
- 50V rating
- Oil and acid resistant
- Excellent flame retardant characteristics
- Temperature rating: -40°C to 85°C (-40°F to 185°F)

### Black

Gauge	Outside Diameter	Stranding	25' (7.6 m)	100' (30.5 m)	Bulk Spool*
6	.272"	7 x 18 x .0142"	769256	769266	769266B
4	.350"	7 x 27 x .0142"	769255	769265	769265B
2	.460"	19 x 16 x .0142"	769252	769262	769262B
1	.460"	19 x 21 x .0142"	769250	769260	769260B
1/0	.510"	19 x 26 x .0142"	769251	769261	769261B
2/0	.570"	19 x 22 x .0179"	769253	769263	769263B
3/0	.640"	19 x 35 x .0159"	769284	769267	769267B
4/0	.699"	19 x 44 x .0159"	769286	769287	769287B

### Approximate Bulk Spool Quantities

769266B	3400'-3600'	769261B	1000'-1250'
769265B	1500'-1750'	769263B	750'-1000'
769262B	1200'-1500'	769267B	500'-750'
769260B	1200'-1500'	769287B	400'-600'

\* Call elecDirect.com for exact spool lengths on cost saving bulk spools. Customers will be billed by the foot for the exact amount that is on the spool.

## Neoprene Jacketed Welding Cable

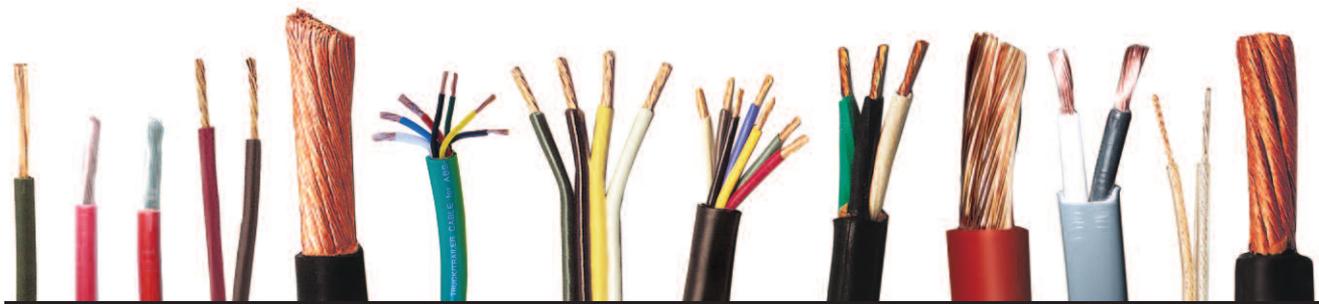
- SAE specification J1127
- Black Neoprene insulation
- Extra flexible multi-stranded copper conductor
- 50V rating
- Oil and acid resistant
- Excellent flame retardant characteristics
- Temperature rating: -40°C to 90°C (-40°F to 194°F)

### Black

Gauge	Outside Diameter	Stranding	25' (7.6 m)	100' (30.5 m)
2	.496"	672 x .010"	769296	*769298
1	.583"	840 x .010"	769295	*769297
1/0	.640"	1083 x .010"	769293	*769292
2/0	.700"	1274 x .010"	769294	*769291

**\*NEW**

## Wire & Cable



The gauge of cable, number of conductors and type of insulation is determined by its application (i.e., the operating conditions and electrical load to be carried). Wiring cable, especially when applying to automobiles or heavy, off road equipment must have flexible characteristics to withstand constant vibrations and adverse operating conditions; it should not become stiff and brittle when subjected to heat or cold. Corrosion, oil, gasoline, battery acids, etc must not damage it.

### Selecting the Correct Cable Gauge Size

Considerable voltage drop will be encountered should the load, e.g. lamps, starter, etc. not be in proper relation to the chosen gauge size. For instance, a 10% drop in battery voltage to the lamps will result in a 30% loss in candlepower output. These might seem like academic figures, however, in practice the effects of voltage drop are very evident in an inefficient electrical system.

### Measure Cable Length Required

Determine the length of cable needed to reach from the battery to the most distant electrical unit of the circuit. (Return circuit has been allowed for in the chart, which applies to chassis grounded returns. For two-wire circuits, use total length of both cables, or the double length to most distant electrical unit.)

### Total Amperes or Candlepower

**Total Candlepower** – Total the maximum candlepower to be used in the circuit. Locate the closest corresponding figure in the candlepower column of the chart.

**Total Amperes** – If the approximate total amperes load in a circuit is known, locate the corresponding amperes (approx.)

### Determining Gauge of Cable

Read across on the line representing the candlepower or the amperes of the circuit to the correct foot-length column. This figure indicates the proper gauge of cable to be used throughout the circuit.

### Recommended Cable Sizes for Replacement or Additional Electrical Unit Installations

Original equipment cable sizes on some vehicles may vary slightly from recommendations due to special electrical system design. This chart applies to chassis grounded return systems. For two-wire circuits, use total length of both cables, or double length to most distant electrical unit.

## Wire & Cable Guide

### 12-Volt System

### \* Total Length of Cable in Circuit from Battery to Most Distant Electrical Unit

Amperes (approx.)	Candle Power	*10' (3m)	*20' (6m)	*30' (9m)	*40' (12m)	*50' (15m)	*60' (18m)	*70' (21m)	*80' (24m)	*90' (27m)	*100' (30m)
1.0	6	18 ga	18 ga	18 ga	18 ga	18 ga	18 ga	18 ga	18 ga	18 ga	18 ga
1.5	10	18 ga	18 ga	18 ga	18 ga	18 ga	18 ga	18 ga	18 ga	18 ga	18 ga
2	16	18 ga	18 ga	18 ga	18 ga	18 ga	18 ga	18 ga	16 ga	16 ga	16 ga
3	24	18 ga	18 ga	18 ga	18 ga	18 ga	16 ga	16 ga	16 ga	14 ga	14 ga
4	30	18 ga	18 ga	18 ga	16 ga	16 ga	16 ga	14 ga	14 ga	14 ga	12 ga
5	40	18 ga	18 ga	18 ga	16 ga	14 ga	14 ga	14 ga	12 ga	12 ga	12 ga
6	50	18 ga	18 ga	16 ga	16 ga	14 ga	14 ga	12 ga	12 ga	12 ga	12 ga
7	60	18 ga	18 ga	16 ga	14 ga	14 ga	12 ga	12 ga	12 ga	10 ga	10 ga
8	70	18 ga	16 ga	16 ga	14 ga	12 ga	12 ga	12 ga	10 ga	10 ga	10 ga
10	80	18 ga	16 ga	14 ga	12 ga	12 ga	12 ga	10 ga	10 ga	10 ga	10 ga
11	90	18 ga	16 ga	14 ga	12 ga	12 ga	10 ga	10 ga	10 ga	10 ga	8 ga
12	100	18 ga	16 ga	14 ga	12 ga	12 ga	10 ga	10 ga	10 ga	8 ga	8 ga
15	120	18 ga	14 ga	12 ga	12 ga	10 ga	10 ga	10 ga	8 ga	8 ga	8 ga
18	140	16 ga	14 ga	12 ga	10 ga	10 ga	8 ga	8 ga	8 ga	8 ga	8 ga
20	160	16 ga	12 ga	12 ga	10 ga	10 ga	8 ga	8 ga	8 ga	8 ga	6 ga
22	180	16 ga	12 ga	10 ga	10 ga	8 ga	8 ga	8 ga	8 ga	6 ga	6 ga
24	200	16 ga	12 ga	10 ga	10 ga	8 ga	8 ga	8 ga	6 ga	6 ga	6 ga
36	-	14 ga	10 ga	8 ga	8 ga	8 ga	6 ga	6 ga	6 ga	4 ga	4 ga
50	-	12 ga	10 ga	8 ga	6 ga	6 ga	4 ga	4 ga	4 ga	2 ga	2 ga
100	-	10 ga	6 ga	4 ga	4 ga	2 ga	2 ga	1 ga	1 ga	1/0 ga	1/0 ga
150	-	8 ga	4 ga	2 ga	2 ga	1 ga	1/0 ga	1/0 ga	2/0 ga	2/0 ga	2/0 ga
200	-	6 ga	4 ga	2 ga	1 ga	1/0 ga	2/0 ga	3/0 ga	3/0 ga	3/0 ga	4/0 ga

