

## ~ Wire Size Recommendations ~

### Conductor Sizes (Gauge) for 3% Voltage Drop - 12 VOLTS

Length of conductor from source of current to the product and back to the source - in feet

Total Current on Circuit	10'	15'	20'	25'	30'	40'	50'	60'	70'	80'	90'	100'
5 amps	18	16	14	12	12	10	10	10	8	8	8	6
10 amps	14	12	10	10	10	8	6	6	6	6	4	4
15 amps	12	10	10	10	10	6	6	6	4	4	2	2
20 amps	10	10	8	6	6	6	4	4	2	2	2	2
25 amps	10	8	6	6	6	4	4	2	2	2	1	1

### Conductor Sizes (Gauge) for 10% Voltage Drop - 12 VOLTS

Length of conductor from source of current to the product and back to the source - in feet

Total Current on Circuit	10'	15'	20'	25'	30'	40'	50'	60'	70'	80'	90'	100'
5 amps	18	18	18	18	18	16	16	14	14	14	12	12
10 amps	18	18	16	16	14	14	12	12	10	10	10	10
15 amps	18	16	14	14	12	12	10	10	8	8	8	8
20 amps	16	14	14	12	12	10	10	8	8	8	6	6
25 amps	16	14	12	12	10	10	8	8	6	6	6	6

### Conductor Sizes (Gauge) for 3% Voltage Drop - 24 VOLTS

Length of conductor from source of current to the product and back to the source - in feet

Total Current on Circuit	10'	15'	20'	25'	30'	40'	50'	60'	70'	80'	90'	100'
5 amps	18	18	18	16	16	14	12	12	12	10	10	10
10 amps	18	16	14	12	12	10	10	10	8	8	8	6
15 amps	18	14	12	12	10	10	8	8	6	6	6	6
20 amps	14	12	10	10	10	8	6	6	6	6	4	4
25 amps	12	12	10	10	8	6	6	6	4	4	4	4

### Conductor Sizes (Gauge) for 10% Voltage Drop - 24 VOLTS

Length of conductor from source of current to the product and back to the source - in feet

Total Current on Circuit	10'	15'	20'	25'	30'	40'	50'	60'	70'	80'	90'	100'
5 amps	18	18	18	18	18	18	18	18	16	16	16	16
10 amps	18	18	18	18	18	16	16	14	14	14	12	12
15 amps	18	18	18	16	16	14	14	12	12	12	10	10
20 amps	18	18	16	16	14	14	12	12	10	10	10	10
25 amps	18	16	16	14	14	12	12	10	10	10	8	8