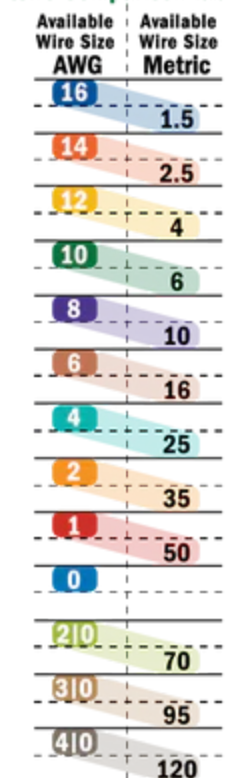


# Standard and Metric Wire Comparison Table



KEY  
AWG WIRE SIZE  
CLOSEST EQUIVALENT IN METRIC

CIRCUIT LENGTH

| CIRCUIT TYPE   |                                  |                             | CURRENT FLOW IN AMPS |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |
|----------------|----------------------------------|-----------------------------|----------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| CIRCUIT LENGTH | Non-Critical<br>10% VOLTAGE DROP | Critical<br>3% VOLTAGE DROP | 5A                   | 10A    | 15A    | 20A     | 25A     | 30A     | 40A     | 50A     | 60A     | 70A     | 80A     | 90A     | 100A    | 120A    | 150A    | 200A    |
|                | 0 to 20 ft                       | 0 to 6 ft                   | 16 AWG               | 16 AWG | 14 AWG | 14 AWG  | 12 AWG  | 10 AWG  | 8 AWG   | 6 AWG   | 6 AWG   | 6 AWG   | 4 AWG   | 4 AWG   | 4 AWG   | 2 AWG   | 1 AWG   |         |
|                | 30 ft                            | 10 ft                       | 16 AWG               | 14 AWG | 12 AWG | 12 AWG  | 10 AWG  | 10 AWG  | 8 AWG   | 6 AWG   | 6 AWG   | 4 AWG   | 4 AWG   | 2 AWG   | 2 AWG   | 2 AWG   | 1 AWG   | 2 0 AWG |
|                | 50 ft                            | 15 ft                       | 16 AWG               | 12 AWG | 10 AWG | 10 AWG  | 8 AWG   | 8 AWG   | 6 AWG   | 6 AWG   | 4 AWG   | 4 AWG   | 2 AWG   | 2 AWG   | 2 AWG   | 2 AWG   | 1 AWG   | 0 AWG   |
|                | 65 ft                            | 20 ft                       | 14 AWG               | 10 AWG | 10 AWG | 8 AWG   | 6 AWG   | 6 AWG   | 6 AWG   | 4 AWG   | 4 AWG   | 2 AWG   | 2 AWG   | 2 AWG   | 1 AWG   | 1 AWG   | 0 AWG   | 2 0 AWG |
|                | 80 ft                            | 25 ft                       | 12 AWG               | 10 AWG | 8 AWG  | 6 AWG   | 6 AWG   | 4 AWG   | 4 AWG   | 2 AWG   | 2 AWG   | 1 AWG   | 1 AWG   | 1 AWG   | 1 AWG   | 0 AWG   | 0 AWG   | 2 0 AWG |
|                | 100 ft                           | 30 ft                       | 12 AWG               | 10 AWG | 8 AWG  | 6 AWG   | 4 AWG   | 4 AWG   | 2 AWG   | 2 AWG   | 1 AWG   | 1 AWG   | 1 AWG   | 0 AWG   | 0 AWG   | 0 AWG   | 2 0 AWG | 3 0 AWG |
|                | 130 ft                           | 40 ft                       | 10 AWG               | 8 AWG  | 6 AWG  | 4 AWG   | 4 AWG   | 2 AWG   | 2 AWG   | 1 AWG   | 0 AWG   | 0 AWG   | 0 AWG   | 2 0 AWG | 2 0 AWG | 3 0 AWG | 4 0 AWG |         |
|                | 165 ft                           | 50 ft                       | 10 AWG               | 6 AWG  | 6 AWG  | 4 AWG   | 2 AWG   | 2 AWG   | 1 AWG   | 0 AWG   | 0 AWG   | 2 0 AWG | 3 0 AWG | 3 0 AWG | 3 0 AWG | 3 0 AWG | 4 0 AWG |         |
|                | 200 ft                           | 60 ft                       | 8 AWG                | 6 AWG  | 4 AWG  | 2 AWG   | 2 AWG   | 1 AWG   | 0 AWG   | 0 AWG   | 2 0 AWG | 3 0 AWG | 4 0 AWG | 4 0 AWG | 4 0 AWG | 4 0 AWG |         |         |
|                |                                  | 70 ft                       | 8 AWG                | 4 AWG  | 4 AWG  | 2 AWG   | 2 AWG   | 1 AWG   | 0 AWG   | 2 0 AWG | 3 0 AWG | 4 0 AWG | 4 0 AWG |         |         |         |         |         |
|                |                                  | 80 ft                       | 8 AWG                | 4 AWG  | 2 AWG  | 2 AWG   | 1 AWG   | 0 AWG   | 2 0 AWG | 3 0 AWG | 4 0 AWG | 4 0 AWG |         |         |         |         |         |         |
|                |                                  | 90 ft                       | 6 AWG                | 4 AWG  | 2 AWG  | 1 AWG   | 0 AWG   | 2 0 AWG | 3 0 AWG | 4 0 AWG |         |         |         |         |         |         |         |         |
|                |                                  | 100 ft                      | 6 AWG                | 4 AWG  | 2 AWG  | 1 AWG   | 0 AWG   | 2 0 AWG | 3 0 AWG | 4 0 AWG |         |         |         |         |         |         |         |         |
|                |                                  | 110 ft                      | 6 AWG                | 2 AWG  | 1 AWG  | 0 AWG   | 2 0 AWG | 3 0 AWG | 4 0 AWG |         |         |         |         |         |         |         |         |         |
|                |                                  | 120 ft                      | 2 AWG                | 1 AWG  | 0 AWG  | 2 0 AWG | 3 0 AWG | 4 0 AWG |         |         |         |         |         |         |         |         |         |         |
|                |                                  | 130 ft                      | 2 AWG                |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |

## AWG WIRE SIZE CHART

