

# USEFUL CONVERSION FACTORS

## AWG to Metric

| AWG | MM <sup>2</sup> | CMIL    | Diameter (Inches) |
|-----|-----------------|---------|-------------------|
| 22  | 0.32            | 640     | 0.029             |
| 20  | 0.52            | 1,020   | 0.036             |
| 18  | 0.82            | 1,620   | 0.046             |
| 16  | 1.31            | 2,580   | 0.058             |
| 14  | 2.08            | 4,110   | 0.073             |
| 12  | 3.31            | 6,530   | 0.092             |
| 10  | 5.26            | 10,380  | 0.116             |
| 9   | 6.63            | 13,090  | 0.130             |
| 8   | 8.38            | 16,510  | 0.146             |
| 6   | 13.20           | 26,240  | 0.184             |
| 4   | 21.20           | 41,740  | 0.232             |
| 3   | 26.70           | 52,620  | 0.260             |
| 2   | 33.60           | 66,360  | 0.292             |
| 1   | 42.40           | 83,690  | 0.332             |
| 1/0 | 53.50           | 105,600 | 0.373             |
| 2/0 | 67.40           | 133,100 | 0.419             |
| 3/0 | 85.00           | 167,800 | 0.470             |
| 4/0 | 107.00          | 211,600 | 0.528             |

| Kcmil | MM <sup>2</sup> | CMIL      | Diameter (Inches) |
|-------|-----------------|-----------|-------------------|
| 250   | 126.00          | 250,000   | 0.575             |
| 300   | 152.00          | 300,000   | 0.630             |
| 350   | 177.00          | 350,000   | 0.681             |
| 400   | 202.00          | 400,000   | 0.728             |
| 500   | 253.00          | 500,000   | 0.813             |
| 550   | 278.00          | 550,000   | 0.855             |
| 600   | 304.00          | 600,000   | 0.893             |
| 700   | 354.00          | 700,000   | 0.964             |
| 750   | 380.00          | 750,000   | 0.998             |
| 900   | 456.00          | 900,000   | 1.094             |
| 1,000 | 506.00          | 1,000,000 | 1.152             |

## Miscellaneous Conversions

| Unit                | Multiply By             | To Get              |
|---------------------|-------------------------|---------------------|
| Centimeters         | 0.3937                  | Inches              |
| Circular Mils       | 0.7854                  | Square Mils         |
| Cubic Centimeters   | 5.0671x10 <sup>-4</sup> | Square Millimeters  |
| Cubic Centimeters   | 0.0610                  | Cubic Inches        |
| Cubic Inches        | 16.386                  | Cubic Centimeters   |
| Inches              | 2.54                    | Centimeters         |
| Kilograms           | 2.2046                  | Pounds              |
| Kilograms/Kilometer | 0.6720                  | Pounds/1000'        |
| Kilometers          | 0.6214                  | Miles               |
| Kilometers          | 3280.8                  | Feet                |
| Meters              | 3.2808                  | Feet                |
| Mils                | 0.001                   | Inches              |
| Mils                | 0.0254                  | Millimeters         |
| Miles               | 1.609                   | Kilometers          |
| Millimeters         | 0.03937                 | Inches              |
| OHMS/Kilometer      | 0.3048                  | OHMS/1000'          |
| OHMS/1000'          | 3.2808                  | OHMS/Kilometer      |
| Pounds              | 0.4536                  | Kilograms           |
| Pounds/1000'        | 1.4881                  | Kilograms/Kilometer |
| Square Centimeters  | 1.55x10 <sup>5</sup>    | Square Mils         |
| Square Centimeters  | 1.97x10 <sup>5</sup>    | Circular Mils       |
| Square Inches       | 1.2732x10 <sup>6</sup>  | Circular Mils       |
| Square Inches       | 645.16                  | Square Millimeter   |
| Square Millimeters  | 1,973.5                 | Circular Mils       |

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