

# BELIEVE IN YOURSELF

## ELECTRONIC CHEAT SHEET

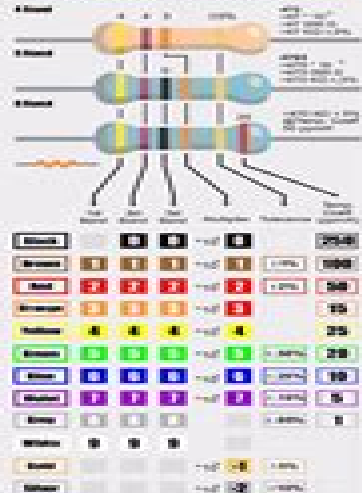
### Ohm's law



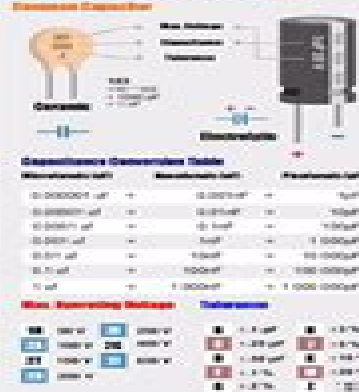
### American Wire Gauge

| American Wire Gauge | Diameter (inches) | Area (sq. mils) | Resistance (ohms/1000 ft.) |
|---------------------|-------------------|-----------------|----------------------------|
| 40                  | .0047             | 19.7            | 103.5                      |
| 38                  | .0050             | 25.5            | 80.8                       |
| 36                  | .0054             | 32.3            | 64.1                       |
| 34                  | .0058             | 39.8            | 50.8                       |
| 32                  | .0063             | 49.0            | 40.1                       |
| 30                  | .0067             | 59.7            | 31.8                       |
| 28                  | .0070             | 70.6            | 25.1                       |
| 26                  | .0075             | 85.0            | 20.1                       |
| 24                  | .0080             | 100.0           | 16.5                       |
| 22                  | .0085             | 117.0           | 13.8                       |
| 20                  | .0090             | 136.0           | 11.5                       |
| 18                  | .0095             | 157.0           | 9.5                        |
| 16                  | .0100             | 182.0           | 7.8                        |
| 14                  | .0110             | 217.0           | 6.4                        |
| 12                  | .0120             | 258.0           | 5.3                        |
| 10                  | .0130             | 306.0           | 4.4                        |
| 8                   | .0140             | 364.0           | 3.6                        |
| 6                   | .0160             | 424.0           | 3.0                        |
| 4                   | .0180             | 500.0           | 2.5                        |
| 2                   | .0200             | 596.0           | 2.0                        |
| 0                   | .0220             | 706.0           | 1.6                        |
| 00                  | .0240             | 837.0           | 1.3                        |
| 000                 | .0270             | 1000.0          | 1.1                        |
| 0000                | .0300             | 1196.0          | .9                         |
| 1                   | .0320             | 1419.0          | .75                        |
| 2                   | .0360             | 1753.0          | .6                         |
| 3                   | .0390             | 2116.0          | .5                         |
| 4                   | .0420             | 2500.0          | .4                         |
| 5                   | .0450             | 2907.0          | .35                        |
| 6                   | .0480             | 3338.0          | .3                         |
| 7                   | .0500             | 3773.0          | .28                        |
| 8                   | .0530             | 4232.0          | .25                        |
| 9                   | .0560             | 4716.0          | .22                        |
| 10                  | .0590             | 5226.0          | .20                        |
| 11                  | .0620             | 5763.0          | .18                        |
| 12                  | .0650             | 6328.0          | .16                        |
| 13                  | .0680             | 6921.0          | .15                        |
| 14                  | .0710             | 7543.0          | .14                        |
| 15                  | .0740             | 8194.0          | .13                        |
| 16                  | .0770             | 8875.0          | .12                        |
| 17                  | .0800             | 9587.0          | .11                        |
| 18                  | .0830             | 10330.0         | .10                        |
| 19                  | .0860             | 11105.0         | .09                        |
| 20                  | .0890             | 11913.0         | .085                       |
| 21                  | .0920             | 12754.0         | .08                        |
| 22                  | .0950             | 13629.0         | .075                       |
| 23                  | .0980             | 14538.0         | .07                        |
| 24                  | .1010             | 15482.0         | .065                       |
| 25                  | .1040             | 16461.0         | .06                        |
| 26                  | .1070             | 17476.0         | .055                       |
| 27                  | .1100             | 18527.0         | .05                        |
| 28                  | .1130             | 19615.0         | .045                       |
| 29                  | .1160             | 20740.0         | .04                        |
| 30                  | .1190             | 21903.0         | .038                       |
| 31                  | .1220             | 23104.0         | .035                       |
| 32                  | .1250             | 24344.0         | .032                       |
| 33                  | .1280             | 25623.0         | .03                        |
| 34                  | .1310             | 26942.0         | .028                       |
| 35                  | .1340             | 28301.0         | .025                       |
| 36                  | .1370             | 29700.0         | .023                       |
| 37                  | .1400             | 31140.0         | .021                       |
| 38                  | .1430             | 32621.0         | .02                        |
| 39                  | .1460             | 34144.0         | .018                       |
| 40                  | .1490             | 35709.0         | .017                       |

### Resistor color Coding



### Capacitor coding



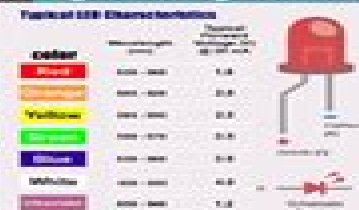
### Electrical Unit

| Electrical Unit | Symbol | Unit    | Electrical Unit | Symbol | Unit  |
|-----------------|--------|---------|-----------------|--------|-------|
| Capacitance     | F      | Farad   | Inductance      | H      | Henry |
| Charge          | C      | Coulomb | Magnetic Flux   | Wb     | Weber |
| Current         | A      | Ampere  | Potential       | V      | Volt  |
| Energy          | J      | Joule   | Power           | W      | Watt  |
| Force           | N      | Newton  | Resistance      | Ω      | Ohm   |
| Frequency       | Hz     | Hertz   |                 |        |       |

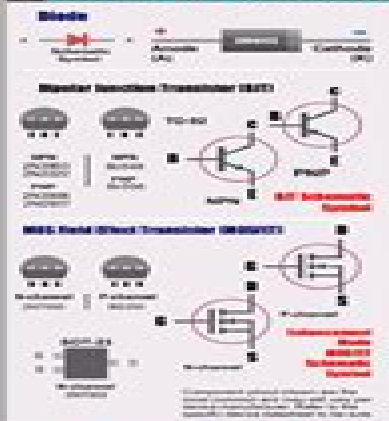
### Metric Prefixes

| Prefix | Symbol | Value                             |
|--------|--------|-----------------------------------|
| Yotta  | Y      | 1,000,000,000,000,000,000,000,000 |
| Zetta  | Z      | 1,000,000,000,000,000,000,000,000 |
| Ecta   | E      | 1,000,000,000,000,000,000,000,000 |
| Peta   | P      | 1,000,000,000,000,000,000,000,000 |
| Tera   | T      | 1,000,000,000,000,000,000,000,000 |
| Giga   | G      | 1,000,000,000,000,000,000,000,000 |
| Mega   | M      | 1,000,000,000,000,000,000,000,000 |
| Kilo   | k      | 1,000,000,000,000,000,000,000,000 |
| Hecto  | h      | 100,000,000,000,000,000,000,000   |
| Deca   | da     | 10,000,000,000,000,000,000,000    |
| Deci   | d      | 0.1, 10 <sup>-1</sup>             |
| Centi  | c      | 0.01, 10 <sup>-2</sup>            |
| Milli  | m      | 0.001, 10 <sup>-3</sup>           |
| Micro  | µ      | 0.0001, 10 <sup>-4</sup>          |
| Nano   | n      | 0.00001, 10 <sup>-5</sup>         |
| Pico   | p      | 0.000001, 10 <sup>-6</sup>        |

### Light Emitting Diode (LED)



### Diodes and Transistors



### Surface Mount Devices (SMD)



# Cheat Sheet For Digital Electronics

**Annelies Wilder-Smith**



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