

A capacitor marked 104 is 10 with 4 more zeros or 100,000pF which is otherwise referred to as a .1 uF capacitor.

102	1000 pF	.001 uF
103	10000pF	.01 uF
104	100000 pF	.1 uF
474	470000pF	.47uF

Flat side +

Light Emitting Diode Color Chart (LED's)

LED colors and wavelengths

Ultra Violet	395 nm typical
Blue	439 nm typical
Green	565 nm typical
Yellow	595 nm typical
Red	660 nm typical
Infra Red	940 nm typical

1 Angstrom= 1×10^{-10} meters = 0.1 nm

Frequency (Hz) = 1/wavelength

IR	Red	Yellow	Green	Violet	UV	Color
900	700	600	500	450	400	Wavelength (nm)
	400	500	550	675	700	Frequency (THz) Approx.

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Metal Conductivity Chart. Listed best to worst conductors.

Material	(ohm-cmil/ft)	(microohm-cm)
Silver	9.546	1.587
Copper	10.09	1.678
Gold	13.32	2.214
Aluminum	15.94	2.650
Tungsten	31.76	5.28
Molybdenum	32.12	5.34
Zinc	35.49	5.90
Nickel	41.69	6.93
Iron	57.81	9.61
Platinum	63.16	10.5
Steel*	100	16.62
Constantan	272.97	45.38
Manganin	290	48.21
Nichrome V	650	108.1
Nichrome	675	112.2

Common wire size. Solid copper and not counting insulation.
1 mil = .001 inch

AWG	Diameter	Diameter	Turns per inch
#30	.01003 inch	10.03 mils	100
#28	.01246	12.64	80
#26	.01594	15.94	63
#24	.02010	20.10	50
#22	.02535	25.35	40
#20	.03196	31.96	31

The Greek Alphabet

A	α	Alpha
β	B	Beta
Γ	γ	Gamma
Δ	δ	Delta
E	ε	Epsilon
Z	ζ	Zeta
H	η	Eta
Θ	θ	Theta
I	ι	Iota
K	κ	Kappa
Λ	λ	Lambda
M	μ	Mu
N	ν	Nu
Ξ	ξ	Xi
O	ο	Omicron
Π	π	Pi
P	ρ	Rho
Σ	σ	Sigma
T	τ	Tau
Υ	υ	Upsilon
Φ	φ	Phi
X	χ	Chi
Ψ	ψ	Psi
Ω	ω	Omega

TITLE		
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