

## Conversion Factors for Units of Length

The below information is reproduced from the extensive reference section of the website  
<http://home.mchsi.com/~gweidner/site>.

### Terms and Abbreviations

c = centi = prefix meaning 1/100  
 ft = foot  
 in = inch  
 k = kilo = prefix meaning 1000

lb = pound  
 m = meter, also m = milli = prefix meaning 1/1000  
 mil = 1/1000 inch

### Notes on using the chart

- To get the reverse of any conversion, divide 1.0 by the conversion factor. For example, the factor to convert "ft to cm" is 30.480, so the factor to convert "cm to ft" is  $1/30.480 = 0.03281$
- If you cannot find a particular conversion (suppose, for example "mm to ft"), try looking for the reverse conversion ("ft to mm"). If you find the reverse conversion, divide it into 1.0 to get the conversion you need.

MULTIPLY	BY	TO OBTAIN
cm	0.03281	ft
cm	0.3937	in
cm	0.01	m
cm	10,000.0	microns
cm	10.0	mm
cm	393.7008	mils
ft	30.480	cm
ft	0.000,3048	km
ft	0.3048	m
ft	0.000,1893	miles
ft	304.80	mm
in	2.540	cm
in	0.02540	m
in	25.40	mm
in	1000.0	mils
km	3280.8399	ft
km	1000.0	m
km	0.6214	miles
m	100.0	cm
m	3.2808	ft
m	39.3701	in
m	0.001	km
m	1,000,000	microns
m	0.000,6214	miles
m	1000.0	mm
microns	0.0001	cm
miles	5280	ft
miles	1.6093	km
miles	1609.3440	m
mm	0.10	cm
mm	0.03937	in
mm	0.001	m
mm	1000.0	microns
mm	39.3701	mils
mils	0.00254	cm
mils	0.001	in
mils	0.0254	mm