

Length conversion chart

Metres, feet, inches, miles and more. Factors are given to 7 significant figures; open the converter for full precision and the worked solution.

Conversion factors to metres (m)		
UNIT	IN M	1 M IN UNIT
metre (m)	1 m	1 m
kilometre (km)	1,000 m	0.001 km
centimetre (cm)	0.01 m	100 cm
millimetre (mm)	0.001 m	1,000 mm
micrometre (µm)	0.000001 m	1,000,000 µm
nanometre (nm)	1 × 10 ⁻⁹ m	1,000,000,000 nm
inch (in)	0.0254 m	39.37008 in
foot (ft)	0.3048 m	3.28084 ft
yard (yd)	0.9144 m	1.093613 yd
mile (mi)	1,609.344 m	0.0006213712 mi
nautical mile (nmi)	1,852 m	0.0005399568 nmi
mil (thou) (mil)	0.0000254 m	39,370.08 mil
US survey foot (ft (US survey))	0.3048006 m	3.280833 ft (US survey)
astronomical unit (au)	149,597,900,000 m	6.684587 × 10 ⁻¹² au
light-year (ly)	9.46073 × 10 ¹⁵ m	1.057001 × 10 ⁻¹⁶ ly
ångström (Å)	1 × 10 ⁻¹⁰ m	10,000,000,000 Å

cm → in	
CM	IN
0.1 cm	0.03937008 in
0.5 cm	0.1968504 in
1 cm	0.3937008 in
2 cm	0.7874016 in
5 cm	1.968504 in
10 cm	3.937008 in
20 cm	7.874016 in
25 cm	9.84252 in
50 cm	19.68504 in
100 cm	39.37008 in
250 cm	98.4252 in
500 cm	196.8504 in
1,000 cm	393.7008 in

in → cm	
IN	CM
0.1 in	0.254 cm
0.5 in	1.27 cm
1 in	2.54 cm
2 in	5.08 cm
5 in	12.7 cm
10 in	25.4 cm
20 in	50.8 cm
25 in	63.5 cm
50 in	127 cm
100 in	254 cm
250 in	635 cm
500 in	1,270 cm
1,000 in	2,540 cm

Formula: **in = cm ÷ 2.54**