



**Offshore Marine**  
Cable Specialists

**AmerCable Systems**

# Technical Reference Metric Conversion Table

Convert From	To	Multiply By
<b>Area</b>		
Circular Mils	Square Inches	.0000007854
Circular Mils	Square Mils	.7854
Circular Mils	Square Millimeters	.0005066
Square Centimeters	Square Inches	.155
Square Feet	Square Meters	.0929
Square Inches	Circular Mils	1,273,240
Square Inches	Square Centimeters	6.4516
Square Inches	Square millimeters	645.16
Square Inches	Square Mils	1,000,000
Square Meters	Square Feet	10.764
Square Millimeters	Square Inches	0.00155
Square Millimeters	Circular Mils	1,973.51
Square Miles	Circular Mils	1,2732
Square Miles	Square Inches	.000001
<b>Length</b>		
Centimeters	Inches	.3937
Centimeters	Feet	.03281
Feet	Centimeters	30.48
Feet	Meters	.3048
Inches	Centimeters	2.54
Inches	Meters	.0254
Inches	Millimeters	25.4
Inches	Mils	1,000
Kilometers	Miles	.6214
Meters	Feet	3.2808
Meters	Inches	39.3701
Meters	Yards	1.0936
Miles	Kilometers	1.6093
Millimeters	Inches	.03937
Millimeters	Mils	39.3701
Mils	Inches	.001
Mils	Millimeters	.0254
yard	Meters	.9144
<b>Power</b>		
Foot Pounds/min.	Horsepower	.0000303
Foot Pounds/min.	Watts	.0226
Foot Pounds/sec.	Horsepower	.001818
Foot Pounds/sec.	Watts	1.356
Horsepower	Foot Pounds/min.	33,000
Horsepower	Foot Pounds/sec.	550
Horsepower	Watts	746
Kilogram-meter/sec.	Watts	9.807

Convert From	To	Multiply By
<b>Power (cont.)</b>		
Watts	Foot Pounds/min.	44.25
Watts	Foot Pounds/sec.	.7375
Watts	Horsepower	.001341
Watts	Kilogram-meter/sec.	.1020
<b>Energy</b>		
BTU	Foot Pounds	788
BTU	Joules	1055
BTU	Watt-hours	.293
Foot Pounds	BTU	.001285
Foot Pounds	Joules	1.356
Foot Pounds	Kilogram-meters	.1383
Gram Calories	Joules	4.186
Joules	BTU	.000947
Joules	Ergs	107
Joules	Foot Pounds	.7375
Joules	Gram-Calories	.2388
Joules	Kilogram-meters	.10198
Kilogram-meters	Foot Pounds	7.233
Kilogram-meters	Joules	9.8117
Watt-hours	BTU	3.4126
<b>Miscellaneous</b>		
Kilograms	Pounds	2.205
Kilograms/kilometer	Pounds/1000feet	.6719
Ohms per kilometer	Ohms/1000feet	.3048
Ohms/1000feet	Ohms/kilometer	3.2808
Ohms/1000yards	Ohms/kilometer	1.0936
Pounds	Kilograms	0.4536
Pounds/1000feet	Kilograms/kilometer	1.488
Pounds /1000yards	Kilograms/kilometer	0.4960
Pounds/1000yards	Pounds/kilometer	1.0936
Diameter Circle	Circumference Circ.	3.1416
Diameter Circle	Side of Equal Square	.8862
Diam. Sphere Cubed	Volume of Sphere	.5236
U.S. Gallons	Imperial gal. (British)	.8327
U.S. Gallons	Cubic Feet	1.337
U.S. Gallons	Pounds of Water (20C)	8.33
Cubic Feet	Pounds of Water (4C)	62.427
Feet of Water (4C)	Pounds/sq. inch	.4336
Inches of Mercury (4C)	Pounds/sq. Inch	.4912
Knots	Miles per hour	1.1516

Metric Equivalents			
<b>LENGTH</b>			
1 centimeter	= 0.397 inches	<b>VOLUME</b>	
1 meter	= 3.2808 feet	1 cubic centimeter	= 0.061 cubic inches
1 meter	= 1.0936 yards	1 cubic meter	= 35.3144 cubic feet
1 kilometer	= 0.6213 miles	1 cubic meter	= 1.3079 cubic yards
1 inch	= 2.54 centimeters	1 cubic inch	= 16.3871 cu. cm.
1 foot	= 0.3048 meters	1 cubic inch	= 0.0283 cubic meters
1 yard	= 0.9144 meters	<b>CAPACITY</b>	
1 mile	= 1.6093 kilometers	1 liter	= 0.0353 cubic feet
<b>AREA</b>			
1 sq. centimeter	= 0.1549 sq. inches	1 liter	= 0.2641 US Gallons
1 sq. meter	= 10.7638 sq. feet	1 liter	= 61.025 cubic inches
1 sq. meter	= 1.1959 yards	1 cubic foot	= 28.32 liters
1 hectare	= 2.4710 acres	1 US Gallon	= 3.7853 liters
1 sq. kilometer	= 0.3861 sq. miles	1 cubic inch	= 0.0163 liters
1 sq. inch	= 6.4516 sq. centimeters	<b>WEIGHT</b>	
1 sq. foot	= 0.0929 sq. meters	1 gram	= 15.4323 grains
1 sq. yard	= 0.8361 sq. meters	1 gram	= 0.0352 ounces av.
1 acre	= 0.4046 hectares	1 kilogram	= 2.2046 pounds
		1 kilogram	= 0.0011 short tons
		1 grain	= 0.647 grams
		1 ounce av.	= 28.3495 grams
		1 pound av.	= 0.4535 kilograms
		1 short ton	= 907.1848 kilograms

Metric Equivalents for Length & Mass		
<b>LENGTH</b>		
1 centimeter	<b>Ounces</b>	<b>Pounds</b>
1 decimeter	0.00352736 oz.	0.00022046 lb.
1 meter	0.00352726 oz.	0.00022046 lb.
1 meter	0.0352738 oz.	0.0022046 lb.
1 dekameter	0.352736 oz.	0.022046 lb.
1 hectometer	3.52736 oz.	0.22046 lb.
1 kilometer	3.2736 oz.	2.2046 lb.
<b>MASS</b>		
	<b>inches</b>	<b>Feet</b>
1 centigram	0.39370 in.	
1 dec igram	3.937 in.	
1 gram	39.37 in.	3.28083 ft.
1dekagram	393.7 in.	32.8083 ft.
1 hectogram	3937.0 in.	328.083 ft.
1 kilogram	39370.0 in.	3280.83 ft.