



◆ Things with Threads ◆

When held vertically, right-hand threads will slope up to the right, as shown in the picture below. Left-hand threads will slope up to the left. Many rigging parts will require the specification of thread direction.

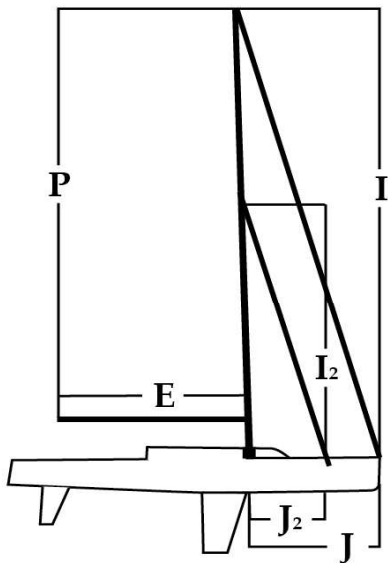


Standard M profile or international (ISO68). Pitch is the distance from thread crest to thread crest in millimeters.

Diameter in Inches	Threads / Inch (UNF)	Diameter in MM	Pitch (ISO 68)
1/4	28	M6	1.00
5/16	24	M8	1.25
3/8	24	M10	1.50
7/16	20	M12	1.75
1/2	20	M16	2.00
5/8	18	M20	2.50
3/4	16	M22	2.50
7/8	14	M27	3.00
1	12	M30	3.50

◆ Rig Dimensions ◆

- P..... Mainsail length along the mast (luff).
- E..... Mainsail length along the boom (foot).
- I..... Distance from the sheer line to the intersection of the forestay and the mast.
- I₂..... Distance from the sheerline to the intersection of the inner-forestay and the mast.
- J..... Distance from the forward side of the mast to the center of the forestay at the bow.



◆ Conversion Table ◆

Length		
When you know	Multiply by	To Find
Inches	25.40	Millimeters
Inches	2.540	Centimeters
Feet	304.80	Millimeters
Feet	30.48	Centimeters
Feet	0.3048	Meters
When you know		
Divide by	To Find	
Millimeters	25.40	Inches
Centimeters	2.540	Inches
Millimeters	304.8	Feet
Centimeters	30.48	Feet
Meters	0.3048	Feet
Weight		
When you know	Multiply by	To Find
Ounces	28.35	Grams
Pounds	0.4535	Kilograms
When you know		
Divide by	To Find	
Grams	28.35	Ounces
Kilograms	0.4535	Pounds
Area		
When you know	Multiply by	To Find
Square Inches	645.2	Square Millimeters
Square Inches	6.452	Square Centimeters
Square Feet	929.0	Square Centimeters
Square Feet	0.0929	Square Meters
Square Yards	0.8361	Square Meters
When you know		
Divide by	To Find	
Square Millimeters	645.2	Square Inches
Square Centimeters	6.452	Square Inches
Square Centimeters	929.0	Square Feet
Square Meters	0.0929	Square Feet
Square Meters	0.8361	Square Yards

◆ Equivalency Table ◆

Fractional Inches	Decimal Inches	mm
1/64"	0.01563	0.39688
1/32"	0.03125	0.79375
	0.03937	1.00000
1/16"	0.06250	1.58750
	0.07874	2.00000
3/32"	0.09375	2.38125
	0.11811	3.00000
1/8"	0.12500	3.17500
5/32"	0.15625	3.96875
	0.15748	4.00000
3/16"	0.18750	4.76250
	0.19685	5.00000
7/32"	0.21875	5.55625
	0.23622	6.00000
1/4"	0.25000	6.35000
	0.27559	7.00000
9/32"	0.28125	7.14375
5/16"	0.31250	7.93750
	0.31496	8.00000
11/32"	0.34375	8.73125
	0.35433	9.00000
3/8"	0.37500	9.52500
	0.39370	10.00000
13/32"	0.40625	10.31875
	0.43307	11.00000
7/16"	0.43750	11.11250
15/32"	0.46875	11.90625
	0.47244	12.00000
1/2"	0.50000	12.70000
	0.51181	13.00000
17/32"	0.53125	13.49375
	0.55118	14.00000
9/16"	0.56250	14.28750
	0.59055	15.00000
19/32"	0.59375	15.08125
5/8"	0.62500	15.87500
	0.62992	16.00000
	0.66929	17.00000
11/16"	0.68750	17.46250
23/32"	0.71875	18.25625
	0.74803	19.00000
3/4"	0.75000	19.05000
25/32"	0.78125	19.84375
	0.78740	20.00000
13/16"	0.81250	20.63750
	0.82677	21.00000
27/32"	0.84375	21.43125
	0.86614	22.00000
7/8"	0.87500	22.22500
	0.90551	23.00000
29/32"	0.90625	23.01875
15/16"	0.93750	23.81250
	0.94488	24.00000
31/32"	0.96875	24.60625
32/32"	1.00000	25.40000

Pythagorean Theorem

The square of the hypotenuse (the side opposite the right angle) is equal to the sum of the squares of the other two sides:

$$a^2 + b^2 = c^2$$

This is very useful to riggers and sailmakers. For example, if we know the "I" and "J" measurements of a boat we can use the Pythagorean Theorem to estimate the length of the forestay.

