

# Thread size vs. rope diameter: General threading guidelines

Which thread sizes are compatible with individual rope diameters? These charts offer a general guideline. We recommend use of heavy hex and jam nuts to ensure sufficient thread engagement lengths. This would require minimum thread lengths to be approximately 1 1/2 to 2 times the nominal thread diameter.

The comparisons in these charts are based on a design factor of 5 using XIP IWRC wire rope minimum breaking force for 6 x 19 and 6 x 36 classification ropes, aircraft cables and carbon steel fittings.

**PLEASE NOTE:** All dimensions shown in this catalog are typical. For exact dimensions, contact **Fabricated Products Customer Service** at 816-270-4700.

If you want to use any other combination of rope strength and fitting materials, alternate thread sizes or rope constructions, please check with us first.

## FITTING MATERIALS.

You can decide how much corrosion resistance you want in your TUF-GRIP assemblies by choosing the material content of the wire rope or fittings. Your choices include:

- Carbon steel
- Galvanized
- Stainless steel
- Plated fittings such as cadmium

### UNC Threads

Nominal rope diameter	Nominal thread diameter	Thread/in coarse (UNC)
1/4	1/2	13
5/16	9/16	12
5/16	5/8	11
3/8	3/4	10
7/16	7/8	9
1/2	7/8	9
9/16	1	8
5/8	1-1/8	7
5/8	1-1/4	7
3/4	1-3/8	6
7/8	1-1/2	6
1	1-3/4	5
1-1/8	2	4 1/2

All dimensions are in inches.

### UNF Threads

Nominal rope diameter	Nominal thread diameter	Thread/in coarse (UNF)
1/4	7/16	20
1/4	1/2	20
5/16	9/16	18
3/8	5/8	18
7/16	3/4	16
1/2	7/8	14
9/16	1	12
5/8	1-1/8	12
3/4	1-1/4	12
3/4	1-3/8	12
7/8	1-1/2	12

All dimensions are in inches.

### UNC Threads

Nominal rope diameter	Nominal thread diameter	Thread/in coarse (UNC)
1/8	1/4	20
5/32	5/16	18
3/16	3/8	16
7/32	3/8	16
1/4	7/16	14
9/32	1/2	13
5/16	9/16	12
11/32	5/8	11
3/8	5/8	11

All dimensions are in inches.

### UNF Threads

Nominal rope diameter	Nominal thread diameter	Thread/in coarse (UNF)
1/8	1/4	28
5/32	5/16	24
3/16	3/8	24
7/32	3/8	24
1/4	7/16	20
9/32	1/2	20
5/16	1/2	20
11/32	9/16	18
3/8	5/8	18

All dimensions are in inches.

