# COMPANY POLICY & WARRANTY

## COMPANY POLICY

### TERMS
**New customers will be shipped on a COD basis, proforma, or credit card. Applications for 30 day terms must be filled out completely and faxed or emailed to our office.**

### SALES TAX
**It is the customer's responsibility to provide Miami Cordage with a signed "State Annual Resale Certificate for Sale Tax". If we do not have it on file, sales tax will be added to each order.**

### PRICING
**Please call, email or fax the office with request for quotations.**

### RETURNS
**If there is an error in our shipment please notify us within 48 hours. All returns must be authorized by Miami Cordage. It is the customer's responsibility to return the merchandise in good, resalable condition, and to provide the invoice number from which the merchandise came. All returns not due to our error are subject to a 20% restocking charge. Merchandise over 90 days from purchase may not be returned.**

### MINIMUM ORDERS
**$25.00**

## WARRANTY

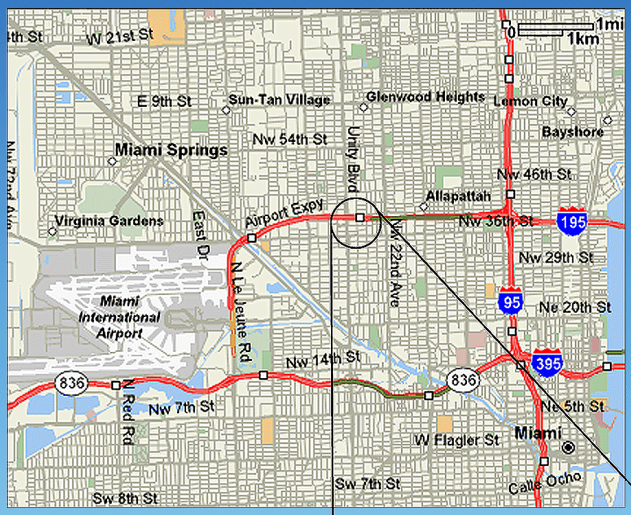
**All products supplied by Miami Cordage / Florida Wire & Rigging Works, Inc. are guaranteed to be of good material and workmanship as originally made by the manufacturer of the products and are rated according to accepted industry standards (except where products are not of a standard nature and standards do not exist).**

**Rated capacities apply only to the products supplied in their new and unused condition. No other warranty conditions or guarantees, either expressed or implied are offered or considered valid.**

**The service life, performance, and strength are conditional upon:**
- **The proper use, environment, loading, and handling of the product and the equipment it is used on.**
- **Methods of attachment.**
- **Careful and knowledgeable use of the product and therefore the responsibility of the customer/user and their employees.**

**Most accidents involving injuries to workmen, and damage to products and equipment are the result of improper lifting and handling of materials. It is, therefore, the responsibility of the customer and/or user of the product to determine the suitability of the product for any particular use. In addition to the rated capacities of the products, all applicable OSHA industry, trade association, federal, state and local regulations should be adhered to by the customer and/or user of the product. The customer/user should also read and comply with all operating instructions and warnings.**

Miami Cordage has been family owned and operated since 1960, serving the Southeast United States, the Caribbean Basin, Central and South America. In 1990, Miami Cordage acquired Florida Wire & Rigging Works, which has been a premiere rigging shop for wire, rope, chain, slings & hardware fittings since 1956. Our clients include NASA, the U.S. Navy & Coast Guard, Puerto Rico's Arecibo Observatory, The Woods Hole Marine Biological Laboratory, prime supplier to The Panama Canal Authority, Royal Caribbean & Carnival Cruise Lines, as well as Banana Republic. In our 40,000 square foot warehouse in Miami Florida we manufacture our double braid up to 4" diameter, solid braid, 3-strand, & 12-strand. Our rigging department has a 100 ton proof-testing machine to verify all our breaking strengths. We also do wire rope swaging up to 2 inch diameter. Miami Cordage, Florida Wire & Rigging Works is a woman owned corporation.





## Our Location:

**2475 NW 38th Street**
**Miami, FL 33142**

## Directions:

- Take the 112 (Airport Expy) to NW 27th Ave (Unity Blvd)
- Head South on NW 27th Ave for one block to NW 38th Street
- Turn East on to NW 38th Street, we are one block on your left




Miami Cordage
Florida Wire & Rigging Works

Family owned & operated Since 1960

# CONTENTS



VOL. 2.8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# ⚠ WARNING!!

**READ ALL WARNINGS BEFORE USING THIS PUBLICATION.**
**FAILURE TO FOLLOW WARNINGS & INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH**

Anyone using this publication must read and understand all warnings and other information listed below and preceding and/or adjacent to the product description. The following apply to all of the products in this price list. Warnings specific to individual products are printed at the beginning of each product section.

All products are sold with the express understanding that the purchaser is thoroughly familiar with their correct application and safe use. Use all products properly, in a safe manner and for the application for which they were intended. Miami Cordage / Florida Wire & Rigging assumes no responsibility for the use or misapplication of any product sold by this firm. Responsibility for design and use decisions rests with the user.

**REMEMBER: ANY PRODUCT WILL BREAK IF ABUSED, MISUSED, OVERUSED OR NOT MAINTAINED PROPERLY.** Such breaks can cause loads to fall or swing out of control, possibly resulting in serious injury or death as well as major property damage.

Therefore:

1. Never exceed the Working Load Limit (WLL).
2. Match components properly.
3. Keep out from under a raised load.
4. Avoid shock loads.
5. Inspect products regularly.

It would be impossible in the scope of this publication to list all possible dangers and misapplications associated with the use of all products contained herein. However, in order to promote safe rigging habits, the most common hazards associated with the use of these products are outlined.

## WORKING LOAD LIMIT

This is the term used throughout the catalog. There are, however, other terms used in the industry which are interchangeable with the term Working Load Limit. These are: WLL, SWL, Safe Working Load, Rated Load Value, Resulting Safe Working Load, and Rated Capacity.

**Never exceed the Working Load Limit.**

The Working Load Limit is the maximum load which should ever be applied to a product, even when the product is new and when the load is uniformly applied - straight line pull only. **Avoid side loading.** All catalog ratings are based upon usual environmental conditions, and consideration must be given to unusual conditions such as extreme high or low temperatures, chemical solutions or vapors, prolonged immersion in salt water, etc. Such conditions or high-risk applications may necessitate reducing the Working Load Limit.

**Working Load Limit will not apply if product has been welded or otherwise modified.**

## MATCHING OF COMPONENTS

Components must match. Make certain that components such as hooks, links or shackles, etc. used with wire rope (or chain or cordage) are of suitable material size and strength to provide adequate safety protection. Attachments must be properly installed and must have a Working Load Limit at least equal to the product with which they are used. Remember: Any chain is only as strong as its weakest link.

## RAISED LOADS

**Keep out from under a raised load.** Take notice of the recommendation from the Safety Council Accident Prevention Manual concerning all lifting operations:

"All employees working at cranes or hoists or assisting in hooking or arranging a load should be instructed to **keep out from under the load.** From a safety standpoint, one factor is paramount: Conduct all lifting operations in such a manner, that if there were an equipment failure, no personnel would be injured. This means **keep out from under a raised load and keep out of the line of force of any load.**"

**Do not operate a load over people. Do not ride on loads.**

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## SHOCK LOADS

Avoid impacting, jerking or swinging of load as the Working Load Limit could be exceeded and the Working Load Limit will not apply. A shock load is generally significantly greater than a static load. **Avoid shock loads.**

## REGULAR INSPECTIONS

Inspect products regularly for visible damage, cracks, wear, elongation, rust, etc. Protect all products from corrosion. The need for periodic inspections cannot be overemphasized. No product can keep operating at its rated capacity indefinitely. Periodic inspections help determine when to replace a product and reduce rigging hazards. Keep inspection records to help pinpoint problems and to ensure periodic inspection intervals.

Due to the diversity of the products involved and uses to which they can be put, it would be counterproductive to make blanket recommendations for inspection procedures and frequency. Best results will be achieved when qualified personnel base their decisions on information from rigging and engineering manuals and on experience from actual use in the field. Refer to sources listed on the following page.

Frequency of inspection will depend on environmental conditions, application, storage of product prior to use, frequency of use, etc. When in doubt, inspect products prior to each use. Carefully check each item for wear, deformation, cracks or elongation - a sure sign of imminent failure. Immediately withdraw such items from service.

Rust damage is another potential hazard. When in doubt about the extent of corrosion or other damage, withdraw the items from service.

Destroy, rather than discard, items that have been judged defective. They might be used again by someone not aware of the hazard involved.

Additional warnings and information on wire rope, chain, cordage, blocks and tools can be found in the Table of Contents by clicking on the warning symbol icon ( ). These should be read and understood thoroughly before using a particular item.

## DEFINITIONS

Information contained in this catalog is subject to change; all weights and dimensions are approximate. Ratings are stated in short tons (2,000 lbs/ton) or pounds. All dimensions are in inches and all weights are in pounds, unless stated otherwise.

### WORKING LOAD LIMIT (WLL)

The Working Load Limit is the maximum load which should ever be applied to the product, even when the product is new and when the load is uniformly applied - straight line pull only. Avoid side loading. All catalog ratings are based upon usual environmental conditions and consideration must be given to unusual conditions such as extreme high or low temperatures, chemical solutions or vapors, prolonged immersion in salt water, etc. Never exceed the Working Load Limit.

### PROOF TEST LOAD (PROOF LOAD)

The term “Proof Test” designates a quality control test applied to the product for the sole purpose of detecting defects in material or manufacture. The Proof Test Load (usually twice the Working Load Limit) is the load which the product withstood without deformation when new and under laboratory test conditions. A constantly increasing force is applied in direct line to the product at a uniform rate of speed on a standard pull testing machine. The Proof Test Load does not mean the Working Load Limit should ever be exceeded.

### BREAKING STRENGTH/ULTIMATE STRENGTH

Do not use breaking strength as a criterion for service or design purposes. Refer to the Working Load Limit instead.

Breaking Strength is the average force at which the product, in the condition it would leave the factory, has been found by representative testing to break, when a constantly increasing force is applied in direct line to the product at a uniform rate of speed on a standard pull testing machine. Proof testing to twice the Working Load Limit does not apply to hand-spliced slings.

Remember: Breaking Strengths, when published, were obtained under controlled laboratory conditions. Listing of the Breaking Strength does not mean the Working Load Limit should ever be exceeded.

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**DESIGN FACTOR (SOMETIMES REFERRED TO AS SAFETY FACTOR)**

An industry term usually computed by dividing the catalog Breaking Strength by the catalog Working Load Limit and generally expressed as a ratio. For example: 5 to 1.

**SHOCK LOAD**

A load resulting from rapid change of movement, such as impacting, jerking or swinging of a static load. Sudden release of tension is another form of shock loading. Shock loads are generally significantly greater than static loads. Any shock loading must be considered when selecting the item for use in a system.
Avoid shock loads as they may exceed the Working Load Limit.

## ADDITIONAL REFERENCE MATERIAL

Consult the following sources for important technical literature and or safety manuals.

American Iron & Steel Institute
1101 17th Northwest Suite 1300
Washington, DC 20036
Telephone: 202/452-7100
Fax : 202/463-6573

"The Cordage Institute"
350 Lincoln Street East
Hingham, MA 02043
Telephone: 781/749-1016
Fax : 781/749-9783

American National Standards Institute
11 W. 42nd St., 13th Floor
New York, NY 10036
Telephone: 212/642-4900

"The Hand Tools Institute"
25 N. Broadway
Tarrytown, NY 10591
Telephone: 914/332-0040
Fax : 914/332-1541

American Petroleum Institute
Publications Department
1220 L. St. N.W.
Washington, DC 20005
Telephone: 202/682-8375
Fax : 202/682-8232

National Safety Council
1121 Spring Lake Drive
Itasca, IL 60143-3201
Telephone: 630/285-1121

The American Society of Mechanical Engineers
22 Law Drive
P.O. Box 2900
Fairfield, NJ 07007-2900
Telephone: 973/882-1167
Fax : 973/882-1717

Occupational Safety & Health Admin.
Department of Labor
200 Construction Ave. N.W. Room N 3101
Washington, DC 20210
Telephone: 202/523-1452

American Society for Testing Material
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959
Telephone: 610/832-9500
Fax : 610/832-9555

U.S. Government Printing Office
Postal Code 9325
Superintendent of Documents
Washington, DC 20402
Telephone: 202/512-1800

Construction Safety Association of Ontario
21 Voyager Court South
Etobicoke Ontario, Canada M9W5M7
Telephone: 416/674-2726
800/781-2726
Fax : 416/674-8866

Wire Rope Technical Board
P.O. Box 286
Woodstock, MD 21163-0286
Telephone: 410/461-7030

# ROPE

## ⚠ WARNING!!

**FAILURE TO FOLLOW WARNINGS & INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH**



**Refer to warnings on pages 4-6.**

**These warnings also apply to cordage (rope). Only additional warnings and information are listed below.**

- **NEVER EXCEED THE WORKING LOAD LIMIT OF ROPE.**
  **Use Working Load Limits as published as guidelines only. Working Load Limit may have to be reduced when life, limb or valuable property are at risk, or other than new rope is used. When using multiple leg rope slings, the Working Load Limit of each leg will have to be reduced considerably. Consult industry recommendations for information such as published by the Cordage Institute. Working Load Limit does not apply if rope has been subjected to severe dynamic loading, which may not be visible.**

- **AVOID OVERHEATING.**
  **Exposure to high temperatures will cause ropes to lose strength rapidly. Even temperatures as low as 150° F (66° C) can reduce the strength of some ropes by 50%. When using synthetic rope (especially polypropylene) on a capstan or a winch, be careful to avoid excessive friction which heats, melts and fuses the outer fibers of the rope. Avoid repeated surging or hard rendering around poles or over cross arms. Polyester rope resists overheating best because its melting point is highest.**

- **ATTACHMENTS MUST HAVE AT LEAST THE SAME WORKING LOAD LIMIT AS THE ROPE USED.**
  **Hooks, links, shackles, etc. must be of suitable material and strength to provide adequate safety protection. Splice rope properly and use thimbles if applicable.**

  **Choose rope to match gear or gear to match rope. Sheaves , pulleys, thimbles, etc. that do not match the size of rope being used can cause dangerous friction, abrasion, overload, etc.**

- **KEEP OUT FROM UNDER A RAISED LOAD.**
  **Do not move load over people. Do not ride on load. Conduct all lifting operations in such a manner that if equipment were to fail or break, no personnel would be injured. This means KEEP OUT FROM UNDER A RAISED LOAD, DO NOT OPERATE LOADS OVER PEOPLE AND KEEP OUT OF THE LINE OF FORCE.**

- **AVOID SHOCK LOADS.**
  **Rope that is strong enough to withstand a steady pull can be broken with a sudden jerk. Be aware of all possible dynamic loading situations. Avoid them when possible and allow for strong enough rope when they cannot be avoided. Keep in mind that the effects of dynamic loading are greater on shorter ropes than on longer ones and greater on low elongation ropes (such as Manila and polypropylene) than on high elongation rope (such as nylon). Never stand in the line of rope under strain. If the rope breaks it will recoil with considerable force, especially if it is nylon.**

- **INSPECT ROPE FREQUENTLY.**
  **Closely examine entire length of rope for damage to determine general condition and detect localized wear. Excessive abrasion, fusing of outside fibers, hockles, rust or other chemical stains, broken fibers or other obvious damage to rope are reasons to retire rope from service. Internal damage can be assessed by twisting strands open and checking for powdered fiber. Rope that is suspected of having been exposed to severe shock loads or loads close to its catalog Breaking Strength should be retired immediately. Such damage may not be visible. Actual remaining strength of damaged or used rope can only be established by laboratory analysis and tension tests.**

- **DESTROY, RATHER THAN DISCARD, ROPE TO BE RETIRED.**
  **It might be used again by someone not aware of the hazard or defect. This is best achieved by cutting it up into short pieces.**

- **ROPE SLINGS.**
  **Refer to OSHA 1910.184 and ASME standard B30.9 for design factors and other important information. Other standards and information may apply in specific applications.**

- **REFER TO "PROPER CARE OF ROPE" ON THE FOLLOWING PAGE FOR ADDITIONAL IMPORTANT CAUTIONS.**

# PROPER CARE OF ROPE

• **AVOID ABRASION AND UNNECESSARY WEAR.** Outer fibers as well as inner fibers contribute to a rope's strength. When outer fibers are worn by chafing or dragging over splintered, rough or gritty surfaces, the rope is worn and weakened. When rope is used on cleats, winchheads, etc. make sure they are smooth and use chafing gear if necessary.

• **AVOID SHARP ANGLES AND BENDS.** Sharp angles greatly affect the strength of a rope. Any sharp angle or bend is a weak spot. Use thimbles or chafing gear or padding where possible. Knots are also weak spots. They can reduce strength by as much as 50% or more. Use splices instead. Splice rope correctly. When a small section of a rope has been worn or damaged, cut out the section and splice it together. Splice in extra tucks for synthetic fiber ropes. Use proper splicing procedures as outlined by the Cordage Institute. Do not resplice rope that broke due to being overloaded - discard it instead. Its remaining strength will only be a fraction of the Working Load Limit when new. Prevent unraveling of rope - whip or tape cut ends.

• **AVOID SUSTAINED LOADS.** Fiber ropes subjected to heavy loads for long periods of time can break well below catalog Breaking Strength. Natural fiber ropes such as Manila and Sisal have less ability to take sustained loads than synthetic fiber ropes such as nylon or polypropylene. Never exceed the Working Load Limit and do not subject fiber rope to sustained loads for more than two days.

• **AVOID RUST.** All ropes, synthetic or natural, should be kept away from rusting iron or steel. Rust can cause rapid loss of strength, sometimes in as short a time as one to two weeks. If ropes become rust stained, inspect the extent of the stain. If it is halfway through the rope, then rope strength may be reduced by as much as 50%.

• **KEEP ROPE AWAY FROM CHEMICALS.** Even though synthetic rope is generally considered to be resistant to damage from oils, gasoline, paint and most chemicals, exposure to any of these may cause some damage. Avoid contact with such things as storage battery solution, washing compounds or solutions, and animal wastes. Strong acids, alkalis and solvents can damage any rope. Natural fiber rope is extremely vulnerable to all chemicals and solvents.

• **AVOID THE USE OF SWIVELS IN ROPES UNDER LOAD -** a loss of turn will cause permanent damage to the rope.

• **NEVER USE A NYLON LINE WHICH HAS A HIGH STRETCH FACTOR IN COMBINATION WITH ANOTHER ROPE OF LOW STRETCH.** The nylon line will stretch and not carry its proportionate share of the load, thus putting extra strain on the other lines.

• **REVERSE ENDS OF THE ROPE PERIODICALLY.** Especially in tackles and winches, reverse the rope end-for-end periodically so that all sections will be worn equally. Also, using a line in one direction over a winch many times can also damage the rope by twisting it too tight or untwisting it so that hockles occur. Kinks pulled through a restricted space such as a tackle block, can seriously damage rope fibers. The initial use should be in a clockwise direction, then reverse the rope periodically.

• **SLACK OFF GUYS IN WET WEATHER.** When ropes are used as guy lines or other supports exposed to weather, they should be slacked off in wet weather, or damage to the rope, as well as what it is supporting, may result.

• **STORE ROPE PROPERLY.** Rope is best stored in a dry, unheated place where air circulates freely, off the floor, and away from direct sunlight and other contact with the elements. Keep in mind that synthetic ropes will deteriorate in direct sunlight due to exposure to ultraviolet radiation. Light colored polypropylene especially is severely affected, smaller diameters more so than larger sizes. Natural fiber ropes (Manila and Sisal) will deteriorate in storage even under ideal conditions.

• **DRY ROPE PROPERLY.** Whenever natural fiber ropes become wet they should always be thoroughly dried before they are stored or they will rot in a very short time. Do NOT dry synthetic fiber rope in direct sunlight.

• **KEEP ROPE CLEAN.** Dirt on the surface of rope can become embedded inside and act as an abrasive on fibers. When rope gets dirty, wash it thoroughly with clean fresh water. Remember to dry natural fiber rope before storing.

• **REMOVE ROPE FROM COILS AND REELS PROPERLY.** Regular right hand laid rope should be uncoiled in a counter clockwise direction.

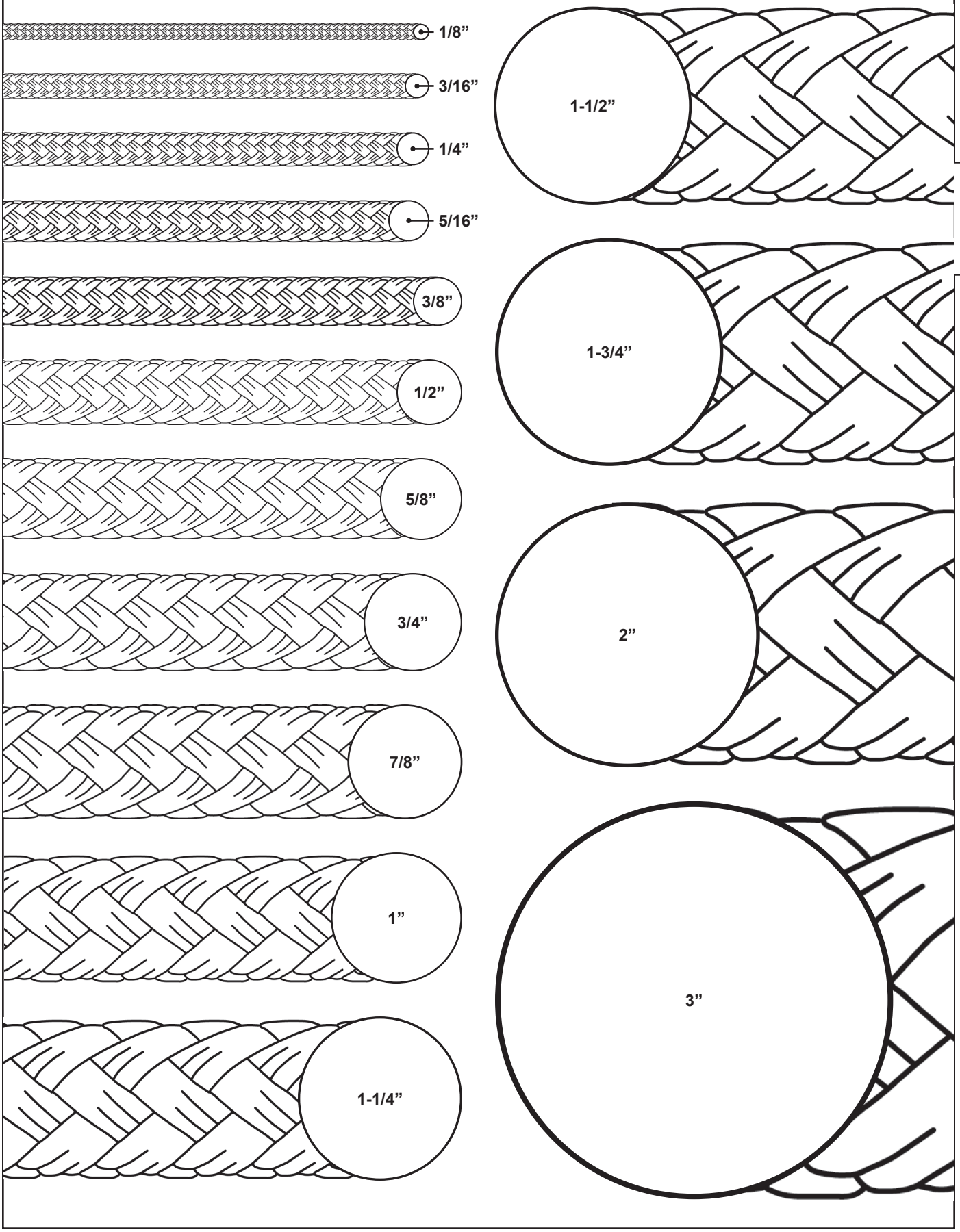
Coiled rope: Lay the coil on the floor with the inside end at the bottom, then reach down through the center and pull the inside up through the coil.

Reeled rope: Remove the rope from a reel by pulling it off the top while the reel is free to rotate. Rope should never be taken from a reel lying on its end because it is more likely to kink or hockle or pull yarns on the wooden flange.

When substituting natural fiber rope with synthetic fiber ropes (or substituting one synthetic rope for another) substitution should not be made on a straight breaking strength-for-breaking strength basis only. Other important factors must be considered.

Consult the Cordage Institute or other sources listed on page 6 for additional information.

# SIZE REFERENCE CHART

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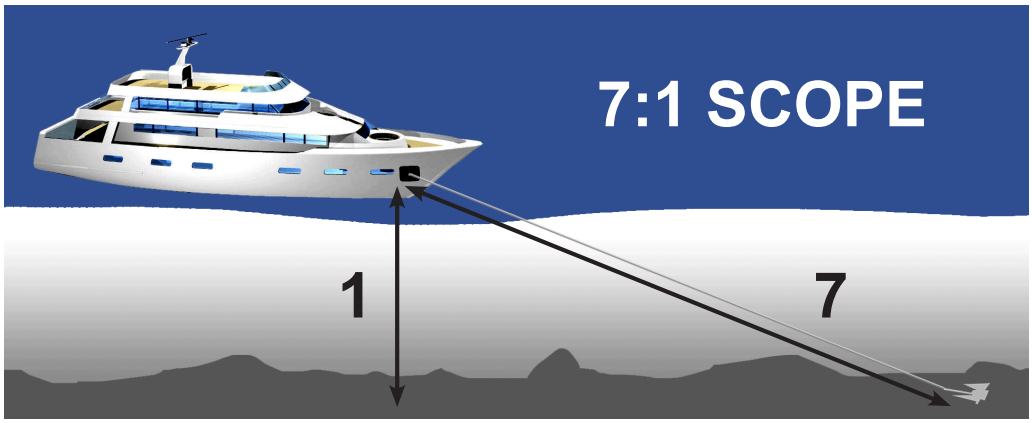
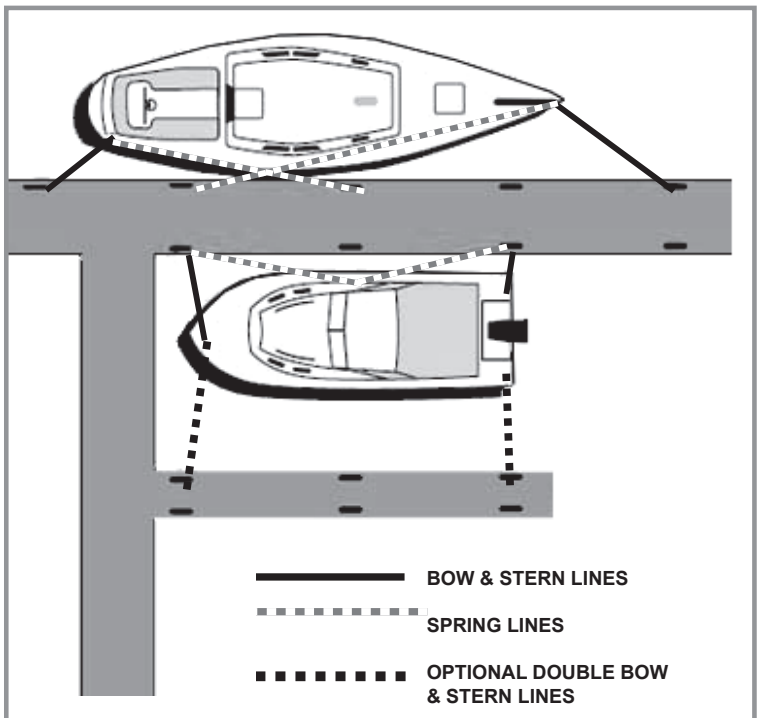
# HOW TO CHOOSE YOUR LINE




| Scope | Holding Power |
|---|---|
| 10:1 | 100% |
| 7:1 | 91% |
| 6:1 | 85% |
| 5:1 | 77% |
| 4:1 | 67% |
| 3:1 | 53% |
| 2:1 | 35% |

Scope is the ratio of the length of deployed anchor rode to the height of the bow chock above the seabed. The greater the scope the more horizontal the pull on the anchor, and the better it will hold. Pegging 10:1 as the maximum practical scope, the table shows the average relative holding power associated with shorter scope.

To determine how much rope to let out to get a 7:1 scope, you measure the depth of the water, add the boat's freeboard at the bow, and multiply that sum by 7. But knowing the needed length won't help you a bit unless you can determine when you have let out that much rope, so the very first thing to do with your new anchor line is to mark it. You can do this with a marking pen, but short yarns or tapes inserted through the strands is more durable and can be identified in the dark by feel. Five-fathom (30') increments are adequate and compatible with depth measurements in feet, fathoms, or meters.




- FORE & AFT LINES are usually 2/3 of the length of the boat.
- SPRING LINES are usually equal to the length of the boat. The positions of the cleats on your boat and dock may affect the length of the dock line.

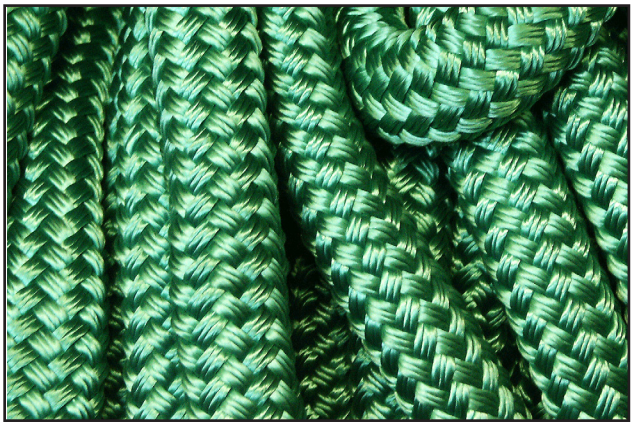
| Boat Length | Dockline |
|---|---|
| under 20' | use 3/8" line |
| 20' to 30' | use 1/2" line |
| 30' to 40' | use 5/8" line |
| 40' to 70' | use 3/4" line |
| 70' to 90' | use 7/8" line |
| 90' to 110' | use 1" line |
| 110' to 130' | use 1-1/8" line |
| 130' to 150' | use 1-1/4" line |
| 150' to 180' | use 1-1/2" line |
| 180' to 200' | use 1-3/4" line |

| Boat Length | Anchor Line | Mooring Pendant |
|---|---|---|
| up to 20' | 3/8" | 1/2" |
| 20' - 30' | 1/2" | 5/8" |
| 30' - 35' | 1/2" | 3/4" |
| 35' - 40' | 5/8" | 7/8" |
| 40' - 45' | 3/4" | 1" |
| 45 - 55' | 7/8" | 1" |
| 55' - 65' | 1" | 1-1/4" |

Recommendations on this page are for normal conditions only. Storm conditions may require longer lengths of line of greater strength and additional anchor points. If your boat is heavier than average, or has greater windage, or is docked where it is subjected to surge, you should choose the next larger size line, increase the number of lines or seek a safe harbor in extreme conditions.

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# NYLON DOUBLE BRAID



Manufactured by Miami Cordage, Double Braid, also called Yacht Braid is a two-in-one rope. A Nylon braided jacket around a Nylon braided core. First the braided core is constructed, then, a second rope is braided over it to form the jacket. You then have two ropes performing as a single integrated strength member. Torque-balanced construction prevents hockling, while special tension setting & stabilization processes keep the rope dimensionally stable.

| Part # | Dia. (in) | Tensile (lb) | Weight per 100 ft (lb) |
|---|---|---|---|
| NYB38 | 3/8 | 4,900 | 3.60 |
| NYB12 | 1/2 | 8,500 | 6.30 |
| NYB58 | 5/8 | 13,500 | 10.0 0 |
| NYB34 | 3/4 | 19,400 | 14.3 0 |
| NYB78 | 7/8 | 26,300 | 19.4 0 |
| NYB1 | 1 | 34,000 | 25.4 0 |
| NYB114 | 1-1/4 | 52,000 | 40.0 0 |
| NYB112 | 1-1/2 | 74,000 | 58.0 0 |
| NYB134 | 1-3/4 | 106,000 | 85.0 0 |
| NYB2 | 2 | 126,000 | 102.00 |
| NYB218 | 2-1/8 | 152,800 | 122.00 |
| NYB214 | 2-1/4 | 166,000 | 138.00 |
| NYB212 | 2-1/2 | 189,000 | 159.00 |
| NYB258 | 2-5/8 | 222,000 | 185.10 |
| NYB234 | 2-3/4 | 237,000 | 204.00 |
| NYB3 | 3 | 277,000 | 234.00 |
| NYB314 | 3-1/4 | 341,000 | 285.00 |
| NYB358 | 3-5/8 | 400,000 | 349.00 |

**Create your custom rope design at www.imakerope.com**

**Half & Half (Snake Skin)**

**Half & Half**

**Tracers**

- Our double braid is the best rope for anchoring, docking, mooring & towing
- Excels in strength, abrasion resistance & flexibility
- Offers predictable, controlled elongation
- Eyes are hand spliced, whipped & sewn at throat & bitter end
- Custom chafing fear is available in leather, cordura or dipping
- We can make your rope in a wide range of colors & styles, custom double braid is our specialty


Compliance to the above specifications is based upon testing according to the Cordage Institute Standard Testing Methods for Fiber Rope and/or ASTM D-4268 Standard Methods of Testing Fiber Ropes. Weights - Are average and may vary +/- 5%
Tensile strengths - Are approximate average for new, unused ropes. To estimate the minimum tensile strength of a new rope, reduce the approximate average by 15% (Cordage Institute defines minimum tensile strength as two standard deviations below the average tensile strength of the rope).

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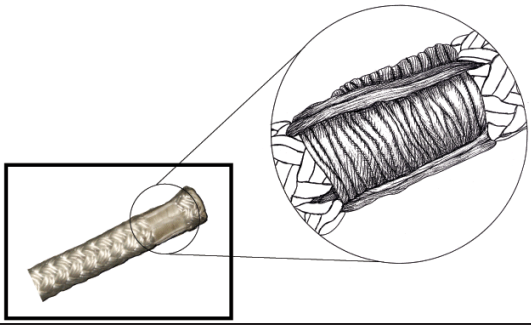
**www.imakerope.com | email: sales@imakerope.com**

## NYLON DOUBLE BRAID
### DOCK LINE

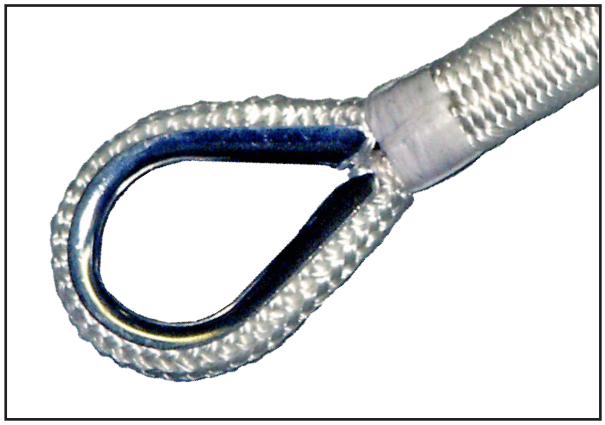
- Excels in strength, abrasion resistance & flexibility
- Offers predictable, controlled elongation
- Eyes are hand spliced, whipped & sewn at throat & bitter end
- Custom chafing gear is available in leather, cordura or dipping

We can make your dockline in any length from the list of diameters in the chart below.

| Part # | Dia. (in) | Tensile (lb) | Weight per 100 ft (lb) |
|---|---|---|---|
| DLB38 | 3/8 | 4,900 | 3.60 |
| DLB12 | 1/2 | 8,500 | 6.30 |
| DLB58 | 5/8 | 13,500 | 10.0 0 |
| DLB34 | 3/4 | 19,400 | 14.30 |
| DLB78 | 7/8 | 26,300 | 19.40 |
| DLB1 | 1 | 34,000 | 25.40 |
| DLB114 | 1-1/4 | 52,000 | 40.00 |
| DLB112 | 1-1/2 | 74,000 | 58.00 |
| DLB134 | 1-3/4 | 106,000 | 85.00 |
| DLB2 | 2 | 126,000 | 102.00 |
| DLB214 | 2-1/4 | 166,000 | 138.00 |
| DLB212 | 2-1/2 | 189,000 | 159.00 |
| DLB234 | 2-3/4 | 237,000 | 204.00 |



## NYLON DOUBLE BRAID
### ANCHOR LINE



- Eyes are hand spliced around a stainless steel or galvanized thimble, whipped & sewn at throat & bitter end

We can make your anchor line in any length from the list of diameters in the chart below.

| Part # | Dia. (in) | Tensile (lb) | Weight per 100 ft (lb) |
|---|---|---|---|
| ALB38 | 3/8 | 4,900 | 3.60 |
| ALB12 | 1/2 | 8,500 | 6.30 |
| ALB58 | 5/8 | 13,500 | 10.00 |
| ALB34 | 3/4 | 19,400 | 14.30 |
| ALB78 | 7/8 | 26,300 | 19.40 |
| ALB1 | 1 | 34,000 | 25.40 |
| ALB114 | 1-1/4 | 52,000 | 40.00 |
| ALB112 | 1-1/2 | 74,000 | 58.00 |
| ALB134 | 1-3/4 | 106,000 | 85.00 |
| ALB2 | 2 | 126,000 | 102.00 |
| ALB214 | 2-1/4 | 166,000 | 138.00 |
| ALB212 | 2-1/2 | 189,000 | 159.00 |
| ALB234 | 2-3/4 | 237,000 | 204.00 |

## NYLON • 3-STRAND TWIST

Our 3-Strand Filament Nylon Rope consists of three equally sized strands twisted together to produce a very fine, durable rope. Using premium high-tensile, U.S. manufactured nylon fibers, we produce a durable rope through a four stage, balanced construction. Our Nylon Rope is easy to handle wet or dry, knots and splices easily, and provides the highest elasticity of any rope!

| Part # | Dia. (in) | Tensile (lb) | Weight per 100 ft (lb) |
|---|---|---|---|
| NR14 | 1/4 | 1,650 | 1.50 |
| NR516 | 5/16 | 2,550 | 2.50 |
| NR38 | 3/8 | 3,700 | 3.50 |
| NR12 | 1/2 | 6,400 | 6.30 |
| NR58 | 5/8 | 10,400 | 10.50 |
| NR34 | 3/4 | 14,200 | 14.50 |
| NR78 | 7/8 | 20,000 | 20.00 |
| NR1 | 1 | 25,000 | 26.40 |
| NR114 | 1-1/4 | 37,500 | 40.00 |
| NR112 | 1-1/2 | 53,000 | 55.00 |
| NR2 | 2 | 92,000 | 95.00 |
| NR212 | 2-1/2 | 125,000 | 149.00 |
| NR3 | 3 | 200,000 | 210.00 |
| NR4 | 4 | 360,000 | 379.00 |

- Available in white & black
- Additional colors are available on special order

## NYLON 3-STRAND TWIST • HEAT SET

| Part # | Dia. (in) | Tensile (lb) | Weight per 100 ft (lb) |
|---|---|---|---|
| NRHS38 | 3/8 | 3,700 | 3.50 |
| NRHS12 | 1/2 | 6,400 | 6.30 |
| NRHS58 | 5/8 | 10,400 | 10.50 |
| NRHS34 | 3/4 | 14,200 | 14.50 |
| NRHS78 | 7/8 | 20,000 | 20.00 |

Miami Cordage's Nylon 3-Strand Heat Set is produced to the same standards as our Premium Nylon 3-Strand Rope. Additional finishing processes make it the ideal windlass rope. The finished rope is initially preshunk and then coated with a compound that stiffens the rope as well as enhances its durability and abrasion resistance. The final result is a firm, easily spliced rope and ideal for anchor lines.

- Coated with Marine Overlay Finish
- Yellow marker distinguishes Heat Set from our regular, premium nylon 3-strand

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## NYLON 3-STRAND TWIST • DOCK LINE

| Part # | Dia. (in) | Tensile Strength (lb) | Wt per 100 Ft (lb) |
|---|---|---|---|
| DL38 | 3/8 | 3,700 | 3.50 |
| DL12 | 1/2 | 6,400 | 6.30 |
| DL58 | 5/8 | 10,400 | 10.50 |
| DL34 | 3/4 | 14,200 | 14.50 |
| DL78 | 7/8 | 20,000 | 20.00 |
| DL1 | 1 | 25,000 | 26.4 |
| DL114 | 1-1/4 | 37,500 | 40.00 |
| DL112 | 1-1/2 | 53,000 | 55.00 |
| DL2 | 2 | 92,000 | 95.00 |
| DL212 | 2-1/2 | 125,000 | 149.00 |
| DL3 | 3 | 200,000 | 210.00 |
| DL4 | 4 | 360,000 | 379.00 |

- Eyes are hand spliced
- Custom chafing gear is available in leather, cordura or dipping

Miami Cordage will make your dock line in any length from the list of diameters in the chart to the right.

## NYLON 3-STRAND TWIST • ANCHOR LINE

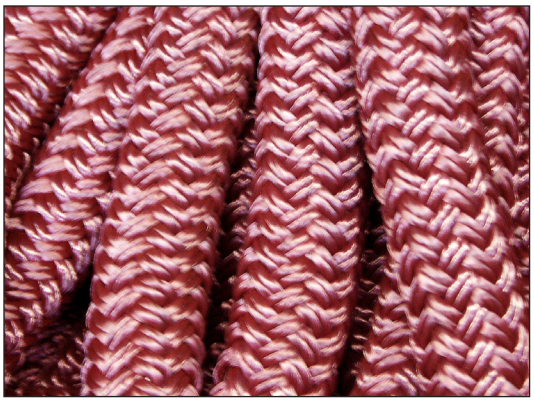

| Part # | Dia. (in) | Tensile Strength (lb) | Wt per 100 Ft (lb) |
|---|---|---|---|
| AL38 | 3/8 | 3,700 | 3.50 |
| AL12 | 1/2 | 6,400 | 6.30 |
| AL58 | 5/8 | 10,400 | 10.50 |
| AL34 | 3/4 | 14,200 | 14.50 |
| AL78 | 7/8 | 20,000 | 20.00 |
| AL1 | 1 | 25,000 | 26.40 |
| AL114 | 1-1/4 | 37,500 | 40.00 |
| AL112 | 1-1/2 | 53,000 | 55.00 |
| AL2 | 2 | 92,000 | 95.00 |
| AL212 | 2-1/2 | 125,000 | 149.00 |
| AL3 | 3 | 200,000 | 210.00 |
| AL4 | 4 | 360,000 | 379.00 |

- Eyes are hand spliced around a stainless steel or galvanized thimble, whipped & sewn at throat & bitter end

Miami Cordage will make your anchor line in any length from the list of diameters in the chart to the right.

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## POLYESTER • DOUBLE BRAID



Manufactured by Miami Cordage, Double Braid, also called Yacht Braid, is a two-in-one rope. A Polyester braided jacket around a Polyester braided core. First the braided core is constructed, then, a second rope is braided over it to form the jacket. You then have two ropes performing as a single integrated strength member. Torque-balanced construction prevents hockling, while special tension setting & stabilization processes keep the rope dimensionally stable.

- Miami Cordage's Double Braid excels in strength, abrasion resistance, gripping properties & flexibility
- The best rope for running rigging & ideally suited for all rope halyards
- Will not kink, backlay or hockle, plus it stores well and is unaffected by mildew, rot most acids and alkalis
- Eyes are hand spliced, whipped & sewn at throat & bitter end
- Custom chafing gear is available in leather, cordura or dippin
- Available in same colors as our Nylon Double Braid

| Part # | Dia. (in) | Tensile Strength (lb) | Weight per 100 Ft (lb) |
|---|---|---|---|
| PYBF316 | 3/16 | 1,200 | 1.10 |
| PYBF14 | 1/4 | 2,000 | 1.90 |
| PYBF516 | 5/16 | 3,000 | 3.10 |
| PYBF38 | 3/8 | 4,400 | 4.40 |
| PYBF12 | 1/2 | 8,200 | 8.00 |
| PYBF916 | 9/16 | 11,000 | 10.10 |
| PYBF58 | 5/8 | 14,000 | 12.60 |
| PYBF34 | 3/4 | 20,000 | 17.50 |
| PYBF78 | 7/8 | 29,900 | 23.70 |
| PYBF1 | 1 | 38,000 | 33.00 |
| PYBF114 | 1-1/4 | 54,500 | 52.30 |
| PYBF112 | 1-1/2 | 72,000 | 75.40 |
| PYBF158 | 1-5/8 | 77,800 | 88.20 |
| PYBF134 | 1-3/4 | 89,200 | 103.00 |
| PYBF2 | 2 | 110,000 | 134.00 |
| PYBF218 | 2-1/8 | 124,000 | 151.00 |
| PYBF214 | 2-1/4 | 141,000 | 169.00 |
| PYBF212 | 2-1/2 | 170,000 | 209.00 |
| PYBF258 | 2-5/8 | 186,000 | 231.00 |
| PYBF234 | 2-3/4 | 206,000 | 265.00 |
| PYBF3 | 3 | 237,000 | 301.00 |
| PYBF314 | 3-1/4 | 292,000 | 354.00 |
| PYBF358 | 3-5/8 | 348,000 | 440.00 |

## POLYESTER • 3-STRAND TWIST

Our 3-Stand Polyester Rope is similar in appearance to our Nylon Rope. It has high strength, low stretch and excellent wear resistance. It is resistant to rot, mildew, deterioration due to marine organisms and is also resistant to acids and solvents.

- Available in white & black

| Part # | Dia. (in) | Tensile Strength (lb) | Weight per 100 Ft (lb) |
|---|---|---|---|
| PRF14 | 1/4 | 1,650 | 2.00 |
| PRF516 | 5/16 | 2,550 | 3.10 |
| PRF38 | 3/8 | 3,700 | 4.50 |
| PRF12 | 1/2 | 6,400 | 8.00 |
| PRF58 | 5/8 | 10,000 | 13.00 |
| PRF34 | 3/4 | 12,500 | 17.50 |
| PRF78 | 7/8 | 18,000 | 25.00 |
| PRF1 | 1 | 22,000 | 30.50 |
| PRF118 | 1-1/8 | 29,500 | 40.00 |
| PRF114 | 1-1/4 | 33,200 | 46.30 |
| PRF112 | 1-1/2 | 46,800 | 66.80 |

## MANILA • 3-STRAND TWIST

3-Strand Manila is manufactured from selected high grade fibers. It is used in shipping, construction and agriculture and is a general purpose rope for jobs where economy, strength, and durability are necessary. Also, it resists mildew and agricultural deterioration.

- Available lengths (ft): 600, 1200

* Available length (ft): 850

| Part # | Dia. (in) | Tensile Strength (lb) | Weight per 100 Ft (lb) |
|---|---|---|---|
| MR14 | 1/4 | 540 | 2.00 |
| MR516* | 5/16 | 900 | 2.90 |
| MR38 | 3/8 | 1,215 | 4.10 |
| MR12 | 1/2 | 2,385 | 7.50 |
| MR58 | 5/8 | 3,960 | 13.30 |
| MR34 | 3/4 | 4,860 | 16.70 |
| MR78 | 7/8 | 6,930 | 22.50 |
| MR1 | 1 | 8,100 | 27.00 |
| MR118 | 1-1/8 | 10,800 | 36.00 |
| MR114 | 1-1/4 | 12,150 | 41.80 |
| MR112 | 1-1/2 | 16,550 | 60.00 |
| MR158 | 1-5/8 | 20,250 | 74.40 |
| MR134 | 1-3/4 | 23,850 | 89.50 |
| MR2 | 2 | 27,900 | 108.00 |
| MR214 | 2-1/4 | 36,900 | 146.00 |
| MR212 | 2-1/2 | 41,850 | 167.00 |
| MR3 | 3 | 57,600 | 242.00 |
| MR314 | 3-1/4 | 69,300 | 299.00 |
| MR312 | 3-1/2 | 81,900 | 367.00 |
| MR4 | 4 | 94,500 | 436.00 |

## POLYPRO • 3 STRAND TWIST

Polypropylene rope is a light weight, strong, general purpose synthetic rope that is easier to handle than rope made from natural fibers. This floating, waterproof rope is resistant to rot, oil, gasoline and most chemicals and is twice as strong as Manila Rope. The 3-Strand rope is constructed of monofilament fibers that are twisted together, creating a smooth surfaced rope that is easy to splice.

Available colors: white, black, yellow, black/yellow mix

- Custom sizes & colors available

| Part # | Dia. (in) | Tensile Strength (lb) | Weight per 100 Ft (lb) |
|---|---|---|---|
| PPR316 | 3/16 | 800 | 0.70 |
| PPR14 | 1/4 | 1,250 | 1.20 |
| PPR516 | 5/16 | 1,900 | 1.80 |
| PPR38 | 3/8 | 2,700 | 2.80 |
| PPR716 | 7/16 | 3,500 | 3.80 |
| PPR12 | 1/2 | 4,200 | 4.70 |
| PPR916 | 9/16 | 5,100 | 6.10 |
| PPR58 | 5/8 | 6,200 | 7.50 |
| PPR34 | 3/4 | 8,500 | 10.70 |
| PPR78 | 7/8 | 11,500 | 15.00 |
| PPR1 | 1 | 14,000 | 18.00 |
| PPR118 | 1-1/8 | 18,300 | 23.7 |
| PPR114 | 1-1/4 | 21,000 | 27.0 |
| PPR112 | 1-1/2 | 29,700 | 38.50 |
| PPR158 | 1-5/8 | 36,000 | 47.50 |
| PPR134 | 1-3/4 | 43,000 | 57.00 |
| PPR2 | 2 | 52,000 | 69.00 |
| PPR214 | 2-1/4 | 69,000 | 92.00 |
| PPR212 | 2-1/2 | 80,000 | 107.00 |
| PPR3 | 3 | 114,000 | 153.00 |
| PPR314 | 3-1/4 | 137,000 | 190.00 |
| PPR312 | 3-1/2 | 162,000 | 232.00 |
| PPR4 | 4 | 190,000 | 275.00 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## POLY-DAC • 3-STRAND TWIST

Poly-dac rope is a composite blend of polyester and polypropylene fibers and is an excellent, low cost general utility rope. It has very low stretch properties and it is easily spliced.

- Additional sizes available on special order

| Part # | Dia. (in) | Tensile Strength (lb) | Weight per 100 Ft (lb) |
|---|---|---|---|
| PD338 | 3/8 | 2,700 | 3.60 |
| PD312 | 1/2 | 4,400 | 6.20 |
| PD358 | 5/8 | 6,100 | 9.50 |
| PD334 | 3/4 | 8,400 | 13.50 |
| PD378 | 7/8 | 11,125 | 18.00 |
| PD31 | 1 | 13,175 | 21.80 |
| PD3114 | 1-1/4 | 19,900 | 33.40 |
| PD3112 | 1-1/2 | 28,250 | 47.00 |
| PD3134 | 1-3/4 | 36,850 | 62.00 |
| PD32 | 2 | 48,050 | 81.00 |
| PD3212 | 2-1/2 | 73,550 | 106.00 |

## SUPERDAN (MAXIMA) • HEAVY DUTY MOORING LINE

Our large diameter 8-Strand Superdan mooring lines are made from high strength polypropylene. A perfect mooring line for large vessels, these lines are 720 feet in length and have 6 feet covered eyes on both ends.

| Part # | Dia. (in) | Tensile Strength (lb) |
|---|---|---|
| PPR8SD2720 | 2 | 73,865 |
| PPR8SD214720 | 2-1/4 | 97,240 |
| PPR8SD258720 | 2-5/8 | 126,310 |
| PPR8SD3720 | 3 | 158,015 |
| PPR8SD314720 | 3-1/4 | 194,480 |

## MAXIFLEX • HEAVY DUTY MOORING LINE

Our OCIMF approved 8-Strand Maxiflex mooring lines are made from high tenacity polyester and high strength polypropylene yarn in a specific composition for higher durability. These lines are 720 feet and have 6 feet covered eyes on both ends.

| Part # | Dia (in) | Circ (in) | Tensile Strength (lb) |
|---|---|---|---|
| PPR8MAXI214720 | 2-1/4 | 7 | 138,000 |
| PPR8MAXI258720 | 2-5/8 | 8 | 182,000 |
| PPR8MAXI3720 | 3 | 9 | 224,900 |
| PPR8MAXI314720 | 3-1/4 | 10 | 276,700 |

- 20% additional breaking strength over nylon ropes
- Better abrasion resistance compared to nylon ropes
- Retains strength in wet conditions
- Sinks in water and does not gain weight
- Maxiflex lasts longer due to high ultraviolet resistance properties

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## NYLON • 12-STRAND BRAID / PLAIT BRAID

Manufactured by Miami Cordage, Nylon 12-Strand, also called a plait braid, provides high strength, high elongation and excellent abrasion resistance in a single braid construction. Its torque free braided construction provides easy handling and prevents kinks and hockles. Our Nylon 12-Strand Braid splices easily, with either a “tuck” splice or a “buried” splice. Nylon 12-Strand is 25% stronger than 3 or 8-Strand nylon and offers important performance advantages:

- Higher strength-to-weight ratios and will not rotate under load
- Stays supple over time in both marine and industrial environments
- Grips and renders well on winches, bollards and capstans
- Available in white and black
- Other colors available on special order

| Part # | Dia. (in) | Tensile Strength (lb) | Weight per 100 Ft (lb) |
|---|---|---|---|
| E12N14 | 1/4 | - | 1.30 |
| E12N516 | 5/16 | - | 2.60 |
| E12N38 | 3/8 | - | 3.90 |
| E12N716 | 7/16 | - | 5.60 |
| E12N12 | 1/2 | - | 7.00 |
| E12N916 | 9/16 | - | 9.00 |
| E12N58 | 5/8 | 13,900 | 11.60 |
| E12N34 | 3/4 | 17,900 | 15.00 |
| E12N78 | 7/8 | 26,200 | 19.30 |
| E12N1 | 1 | 30,100 | 26.50 |
| E12N118 | 1-1/8 | 39,400 | 33.00 |
| E12N114 | 1-1/4 | 45,400 | 39.50 |
| E12N112 | 1-1/2 | 64,800 | 56.00 |
| E12N158 | 1-5/8 | - | 67.00 |
| E12N134 | 1-3/4 | 92,100 | 79.00 |
| E12N2 | 2 | 106,000 | 96.00 |
| E12N214 | 2-1/4 | 152,000 | 135.00 |
| E12N212 | 2-1/2 | 170,000 | 152.00 |

## POLYESTER • 12-STRAND BRAID / PLAIT BRAID

Manufactured by Miami Cordage, Nylon 12-Strand, also called a Plait Braid, provides high strength, high elongation and excellent abrasion resistance in a single braid construction. Its torque free braided construction provides easy handling and prevents kinks and hockles. 12-Strand Braid splices easily, with either a “tuck” splice or a “buried” splice. Nylon 12-Strand is 25% stronger than 3 or 8-Strand nylon and offers important performance advantages:

- Higher strength-to-weight ratios and will not rotate under load
- Stays supple over time in both marine and industrial environments
- Grips and renders well on winches, bollards and capstans
- Manufactured with Maine Overlay treated polyester, improving longevity and abrasion resistance
- Available in White & Black
- Other colors available on special order

| Part # | Dia. (in) | Tensile Strength (lb) | Weight per 100 Ft (lb) |
|---|---|---|---|
| E12P14 | 1/4 | - | 2.00 |
| E12P516 | 5/16 | - | 3.00 |
| E12P38 | 3/8 | - | 4.20 |
| E12P716 | 7/16 | - | 6.30 |
| E12P12 | 1/2 | - | 8.50 |
| E12P58 | 5/8 | 12,100 | 13.10 |
| E12P34 | 3/4 | 15,800 | 17.20 |
| E12P78 | 7/8 | 24,200 | 25.80 |
| E12P1 | 1 | 27,500 | 34.50 |
| E12P118 | 1-1/8 | 35,300 | 40.00 |
| E12P114 | 1-1/4 | 42,100 | 44.50 |
| E12P112 | 1-1/2 | 59,600 | 69.00 |
| E12P158 | 1-5/8 | 72,200 | 82.50 |
| E12P134 | 1-3/4 | 84,400 | 96.10 |
| E12P2 | 2 | 101,000 | 117.10 |
| E12P214 | 2-1/4 | 137,000 | 141.20 |
| E12P212 | 2-1/2 | 163,000 | 162.60 |

## AMSTEEL BLUE® • 12-STRAND BRAID

AmSteel Blue is a torque-free 12-Strand single braid that yields the maximum in strength-to-weight ratio and, size for size, is the same strength as steel - yet it floats. Light weight and high strength, high modulus polyethylene (HMPE) ropes have been successfully replacing wire cables in mooring applications and are also frequently replacing wire ropes as well as fiber ropes in a wide range of applications. HMPE rope has outstanding resistance to both external and interal abrasion and also has the best flex-fatigue and wear resistance when compared to products made of HMPE or post-drawn HMPE fibers.

- Extremely low stretch and light weight
- Superior wear and flex fatigue
- UV stabilized
- Easily inspected or field spliced
- Specific Gravity: .98 allowing the HMPE rope to float
- Available in Blue
- Other colors available on special order

| Part # | Dia. (in) | Circ. (in) | Ave. Tensile Strength (lb) | Min. Tensile Strength (lb) | Wt per 100 Ft (lb) |
|---|---|---|---|---|---|
| AMSTEEL516 | 5/16 | 1 | 13,700 | 12,300 | 2.70 |
| AMSTEEL38 | 3/8 | 1-1/8 | 19,600 | 17,600 | 3.60 |
| AMSTEEL716 | 7/16 | 1-1/4 | 23,900 | 21,500 | 4.20 |
| AMSTEEL12 | 1/2 | 1-1/2 | 34,000 | 30,600 | 6.40 |
| AMSTEEL916 | 9/16 | 1-3/4 | 40,500 | 36,500 | 7.90 |
| AMSTEEL58 | 5/8 | 2 | 52,800 | 47,500 | 10.20 |
| AMSTEEL34 | 3/4 | 2-1/4 | 64,400 | 58,000 | 13.30 |
| AMSTEEL78 | 7/8 | 2-3/4 | 90,800 | 81,700 | 19.60 |
| AMSTEEL1 | 1 | 3 | 109,000 | 98,100 | 21.80 |
| AMSTEEL1116 | 1-1/16 | 3-1/4 | 131,000 | 118,000 | 27.50 |
| AMSTEEL118 | 1-1/8 | 3-1/2 | 148,000 | 133,000 | 31.90 |
| AMSTEEL114 | 1-1/4 | 3-3/4 | 165,000 | 149,000 | 36.20 |
| AMSTEEL1516 | 1-5/16 | 4 | 184,000 | 166,000 | 41.80 |
| AMSTEEL112 | 1-1/2 | 4-1/2 | 228,000 | 205,000 | 51.70 |
| AMSTEEL158 | 1-5/8 | 5 | 283,000 | 255,000 | 65.20 |
| AMSTEEL134 | 1-3/4 | 5-1/2 | 335,000 | 302,000 | 78.40 |
| AMSTEEL2 | 2 | 6 | 381,000 | 343,000 | 87.00 |
| AMSTEEL218 | 2-1/8 | 6-1/2 | 457,000 | 411,000 | 109.00 |
| AMSTEEL214 | 2-1/4 | 7 | 537,000 | 483,000 | 116.00 |
| AMSTEEL212 | 2-1/2 | 7-1/2 | 588,000 | 529,000 | 148.00 |
| AMSTEEL258 | 2-5/8 | 8 | 662,000 | 596,000 | 167.00 |
| AMSTEEL234 | 2-3/4 | 8-1/2 | 735,000 | 662,000 | 187.00 |
| AMSTEEL3 | 3 | 9 | 831,000 | 748,000 | 206.00 |
| AMSTEEL314 | 3-1/4 | 10 | 1,007,000 | 906,000 | 240.00 |

## LITESTEEL BLUE • 12-STRAND BRAID

LiteSteel is Miami Cordage's strongest synthetic rope, made from Dyneema® SK-75 fibers. It is a 12 strand single braid, non-rotational rope that, size for size, is the same strength as steel. LiteSteel has a specific gravity of 0.98, allowing it to float yet it will not absorb water and is UV resistant. Dyneema® fiber ropes have a life span that is typically stronger than wire rope, making it an excellent wire rope replacement. LiteSteel has extremely low stretch, superior flex fatigue and wear resistance. It is a high performance rope and useful with high load applications where ease of handling is important and where wire rope is not practical.

| Part # | Dia. (in) | Circ. (in) | Ave. Tensile Strength (lb) | Wt per 100 Ft (lb) |
|---|---|---|---|---|
| LTSTL18 | 1/8 | 3/8 | 2,200 | 0.50 |
| LTSTL316 | 3/16 | 9/16 | 4,900 | 1.00 |
| LTSTL14 | 1/4 | 13/16 | 7,500 | 2.40 |
| LTSTL516 | 5/16 | 1 | 8,600 | 2.70 |
| LTSTL38 | 3/8 | 1-1/8 | 18,000 | 3.60 |
| LTSTL716 | 7/16 | 1-1/4 | 22,000 | 4.20 |
| LTSTL12 | 1/2 | 1-1/2 | 30,500 | 6.40 |
| LTSTL916 | 9/16 | 1-3/4 | 36,500 | 7.90 |
| LTSTL58 | 5/8 | 2 | 47,300 | 10.20 |
| LTSTL34 | 3/4 | 2-1/4 | 58,500 | 13.30 |

# ROPE

## POLYPROPYLENE • 8-STRAND HOLLOW BRAID

| Part # | Dia. (in) | Trade Size | Length (ft) |
|---|---|---|---|
| PPHB41M | 1/8 | #4 | 1,000 |
| PPHB43M | 1/8 | #4 | 3,000 |
| PPHB61M | 3/16 | #6 | 1,000 |
| PPHB612C | 3/16 | #6 | 1,200 |
| PPHB86C | 1/4 | #8 | 600 |
| PPHB81M | 1/4 | #8 | 1,000 |
| PPHB101M | 5/16 | #10 | 1,000 |
| PPHB121M | 3/8 | #12 | 1,000 |
| PPHB161M | 1/2 | #16 | 1,000 |

Hollow braided polypropylene is an 8-Strand Diamond Braid construction with a hollow center.

- Used for light duty pulling, swimming pool lane marker, tree guy line
- Floats & very easy to handle and splice
- Available in Yellow, Black, White & Green

## NYLON SOLID BRAID

Solid Braid is a strong, soft, lightweight cord with excellent resistance to rot, abrasion, mildew, petroleum products and most chemicals. It has shock-absorbing elasticity which allows it to withstand great strain and its braided construction stays round and works well with pulleys.

| Part # | Dia. (in) | Trade Size | WLL (lb) | Length (ft) |
|---|---|---|---|---|
| SBN3 | 3/32 | #3 | 38 | 50 |
| SBN4 | 1/8 | #4 | 69 | 50 |
| SBN5 | 5/32 | #5 | 83 | 50 |
| SBN6 | 3/16 | #6 | 113 | 50 |
| SBN8 | 1/4 | #8 | 169 | 50 |
| SBN10 | 5/16 | #10 | 330 | 50 |
| SBN12 | 3/8 | #12 | 450 | 50 |
| SBN16 | 1/2 | #16 | 714 | 50 |

- Available in white
- Available in lengths of: 50', 250', 500' and 1,000'

## POLYESTER SOLID BRAID

Solid braid polyester is a strong, soft, lightweight cord with excellent resistance to rot, abrasion, mildew, petroleum products and most chemicals. Our solid braid polyester does not have the elasticity of the solid braid nylon and worke well on blocks and pulleys. Other useful applications inclue use for guy lines, sash cord, pulleys, tie downs and flagpole halyards.

| Part # | Trade Size | Dia. (in) | WLL (lb) | Length (ft) |
|---|---|---|---|---|
| SBP3 | #3 | 3/32 | 38 | 50 |
| SBP4 | #4 | 1/8 | 69 | 50 |
| SBP5 | #5 | 5/32 | 83 | 50 |
| SBP6 | #6 | 3/16 | 113 | 50 |
| SBP8 | #8 | 1/4 | 169 | 50 |
| SBP10 | #10 | 5/16 | 330 | 50 |
| SBN12 | #12 | 3/8 | 450 | 50 |
| SBN16 | #16 | 1/2 | 714 | 50 |

- Available in white or black and in stiff hanks
- Available in lengths of: 50', 250', 500' or 1,000'

# TWINE & CORD

## MANILLA MINI COILS

3-Strand Manila in small, precut lengths and is perfect for the home or the garden.

| Part # | Dia. (in) | Length (ft) | Minimum Tensile Strength (lb) | Wt per Coil (lb) |
|---|---|---|---|---|
| MR1450 | 1/4 | 50 | 540 | 1.00 |
| MR141C | 1/4 | 100 | 540 | 2.00 |
| MR3850 | 3/8 | 50 | 1,215 | 2.05 |
| MR381C | 3/8 | 100 | 1,215 | 4.1 0 |
| MR1250 | 1/2 | 50 | 2,385 | 3.75 |
| MR121C | 1/2 | 100 | 2,385 | 7.50 |

## NYLON MINI COILS


3-Strand Nylon in small, precut lengths and is perfect for home or the garden.

| Part # | Dia. (in) | Length (ft) | Average Tensile Strength (lb) | Wt per Coil (lb) |
|---|---|---|---|---|
| NR1450 | 1/4 | 50 | 1,650 | 0.75 |
| NR141C | 1/4 | 100 | 1,650 | 1.50 |
| NR3850 | 3/8 | 50 | 3,700 | 1.75 |
| NR381C | 3/8 | 100 | 3,700 | 3.50 |
| NR1250 | 1/2 | 50 | 6,400 | 3.15 |
| NR121C | 1/2 | 100 | 6,400 | 6.30 |

## POLYPROPYLENE MINI COILS


Polypropylene rope in small, precut lengths and is perfect for the home, boat, farm, car or garden.

| Part # | Dia. (in) | Length (ft) | Minimum Tensile Strength (lb) | Wt per Coil (lb) |
|---|---|---|---|---|
| PPM1450 | 1/4 | 50 | 1,130 | 0.60 |
| PPM141C | 1/4 | 100 | 1,130 | 1.20 |
| PPM3850 | 3/8 | 50 | 2,440 | 1.40 |
| PPM381C | 3/8 | 100 | 2,440 | 2.80 |
| PPM1250 | 1/2 | 50 | 3,780 | 2.35 |
| PPM121C | 1/2 | 100 | 3,780 | 4.70 |

## POLY TWINE


10 lb self-dispensing boxes that keep the twine tangle-free. Tyger twine is great for package wrapping & general use.

- Abrasion & rot resistant
- Long lasting
- Additional sizes available on special order

| Part # | Ply | Length (ft) | Wt (lb) |
|---|---|---|---|
| TWPP850110 | 1 | 8,500 | 10.00 |
| TWPP850210 | 2 | 8,500 | 10.00 |
| TWPP850310 | 3 | 8,500 | 10.00 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

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# TWINE & CORD

## SISAL TWINE

Used extensively for plants, trees & nursery twine.

- Color: Natural tan
- Biodegradable

| Part # | Ply | Wt (lb) | Balls per Package |
|---|---|---|---|
| TWS15B | 1 | 5.00 | 10 |
| TWS110 | 1 | 10.00 | 1 |
| TWS212 | 2 | 0.50 | 1 |
| TWS21 | 2 | 1.00 | 1 |
| TWS210 | 2 | 10.00 | 1 |
| TWS210B | 2 | 10.00 | 10 |
| TWS35 | 3 | 5.00 | 1 |
| TWS310 | 3 | 10.00 | 1 |
| TWBNDR8 | Sisal Binder Twine | 8.00 | 1 |

## JUTE TWINE

Jute twine is very versatile and used for everything from gardening to package wrapping and is biodegradable.

| Part # | Ply | Length (ft) | Color |
|---|---|---|---|
| TWJN225 | 3 | 225 | Natural |
| TWJG2C | 3 | 200 | Garden Green |

## TARRED JUTE MARLIN

Our tarred jute marlin is jute twine that is coated with a tarred solution for water resistance.

- Additional sizes available on special order

| Part # | Ply | Wt (lb) |
|---|---|---|
| TWTMU22 | 2 | 2 |
| TWTMU25 | 2 | 5 |
| TWTMU35 | 3 | 5 |

## COTTON WRAPPING TWINE
### "BUTCHER TWINE"

Also known as butcher twine, this is a 100% natural cotton twine for general home, business & commercial use.

| Part # | Ply | Wt (lb) |
|---|---|---|
| TWCW3 | 3 | 2.00 |
| TWCW4 | 4 | 2.00 |
| TWCW612 | 6 | 0.50 |
| TWCW6 | 6 | 2.00 |
| TWCW8 | 8 | 2.00 |
| TWCW88 | 8 | 8.00 |
| TWCW10 | 10 | 2.00 |
| TWCW12 | 12 | 2.00 |
| TWCW16 | 16 | 2.00 |
| TWCW24 | 24 | 2.00 |
| TWCW30 | 30 | 2.00 |

## COTTON SEINE TWINE

A cotton blend cord used for seine twine, staging twine, trot line, chalk & mason line.

| Part # | Size | Length (ft) | Wt (lb) |
|---|---|---|---|
| TWCS912 | #9 | 720 | 0.50 |
| TWCS1212 | #12 | 540 | 0.50 |
| TWCS121 | #12 | 1,075 | 1.00 |
| TWCS1814 | #18 | 225 | 0.25 |
| TWCS1812 | #18 | 400 | 0.50 |
| TWCS181 | #18 | 800 | 1.00 |
| TWCS2414 | #24 | 215 | 0.25 |
| TWCS2412 | #24 | 350 | 0.50 |
| TWCS241 | #24 | 430 | 1.00 |
| TWCS3612 | #36 | 180 | 0.50 |
| TWCS361 | #36 | 360 | 1.00 |
| TWCS4812 | #48 | 180 | 0.50 |
| TWCS481 | #48 | 350 | 1.00 |
| TWCS721 | #72 | 215 | 1.00 |

## TARRED POLYESTER YACHT MARLIN


100% continuous filament, special cabled polyester that is coated with a tarred solution for water resistance.

| Part # | Type | Size (in) | Wt (lb) |
|---|---|---|---|
| TWTP14F | Fine | 3/32 | 0.25 |
| TWTP14H | Heavy | 1/8 | 0.25 |
| TWTP1F | Fine | 3/32 | 1.00 |
| TWTP1H | Heavy | 1/8 | 1.00 |

## WAXED SAILMAKER TWINE


Available in round or flat & a #15 sewing needle is included.

Ideal for:
- Whipping
- Stiching
- Repairing Canvas
- Synthetic sails & fabrics

**ROUND**

| Part # | Color | Wt (lb) | Length (ft) |
|---|---|---|---|
| TWWSRN14 | Natural | 0.25 | 500 |
| TWWSRN1 | Natural | 1.00 | 2,000 |
| TWWSR814 | White | 0.25 | 500 |
| TWWSR81 | White | 1.00 | 2,000 |
| TWWSR114 | Black | 0.25 | 500 |
| TWWSR214 | Blue | 0.25 | 500 |
| TWWSRNA14 | Navy Blue | 0.25 | 500 |
| TWWSR414 | Green | 0.25 | 500 |
| TWWSR614 | Red | 0.25 | 500 |
| TWWSR714 | Yellow | 0.25 | 500 |

**FLAT**

| Part # | Color | Wt (lb) | Length (ft) |
|---|---|---|---|
| TWWSFN14 | Natural | 0.25 | 500 |
| TWWSFN1 | Natural | 1.00 | 2,000 |
| TWWSF814 | White | 0.25 | 500 |
| TWWSF114 | Black | 0.25 | 500 |
| TWWSF214 | Blue | 0.25 | 500 |
| TWWSFNA14 | Navy Blue | 0.25 | 500 |
| TWWSF414 | Green | 0.25 | 500 |
| TWWSF614 | Red | 0.25 | 500 |
| TWWSF714 | Yellow | 0.25 | 500 |

## NYLON SEINE TWINE


Our Miacord brand of colorful nylon seine twine is great for use with net repair, fishing line, chalk line, home, garden, factory & in the shop.

- Additional colors available on special order

| Part # | Color | Size | Length (ft) | Wt (lb) |
|---|---|---|---|---|
| TWNSP1814 | Pink | #18 | 275 | 0.25 |
| TWNSP1812 | Pink | #18 | 550 | 0.50 |
| TWNSP181 | Pink | #18 | 1,080 | 1.00 |
| TWNSO1814 | Orange | #18 | 275 | 0.25 |
| TWNSO1812 | Orange | #18 | 550 | 0.50 |
| TWNSO181 | Orange | #18 | 1,080 | 1.00 |
| TWNSW614 | White | #6 | - | 0.25 |
| TWNSW1212 | White | #12 | - | 0.50 |
| TWNSW1814 | White | #18 | 275 | 0.25 |
| TWNSW1812 | White | #18 | 550 | 0.50 |
| TWNSW181 | White | #18 | 1,080 | 1.00 |
| TWNSW241 | White | #24 | - | 1.00 |
| TWNSW361 | White | #36 | - | 1.00 |
| TWNSB181 | Black | #18 | 1,080 | 1.00 |
| TWNSY1814 | Yellow | #18 | 275 | 0.25 |
| TWNSY1812 | Yellow | #18 | 550 | 0.50 |
| TWNSY181 | Yellow | #18 | 1,080 | 1.00 |
| TWNSGO1814 | Gold | #18 | 275 | 0.25 |
| TWNSGO1812 | Gold | #18 | 550 | 0.50 |
| TWNSGO181 | Gold | #18 | 1,080 | 1.00 |
| TWNSG1814 | Green | #18 | 275 | 0.25 |
| TWNSG1812 | Green | #18 | 550 | 0.50 |
| TWNSG181 | Green | #18 | 1,080 | 1.00 |



⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# TWINE & CORD

## SHOCK CORD

Our premium, quality shock cord has a natural rubber core with a nylon cover.

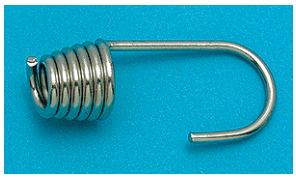
- Available by the spool or custom cut lengths

| Part # | Size (in) | Length (ft) |
|---|---|---|
| SHCD181C | 1/8 | 100 |
| SHCD18250 | 1/8 | 250 |
| SHCD185C | 1/8 | 500 |
| SHCD3161C | 3/16 | 100 |
| SHCD316250 | 3/16 | 250 |
| SHCD3165C | 3/16 | 500 |
| SHCD141C | 1/4 | 100 |
| SHCD14250 | 1/4 | 250 |
| SHCD145C | 1/4 | 500 |
| SHCD5161C | 5/16 | 100 |
| SHCD516250 | 5/16 | 250 |
| SHCD5165C | 5/16 | 500 |
| SHCD381C | 3/8 | 100 |
| SHCD38250C | 3/8 | 250 |
| SHCD385C | 3/8 | 500 |
| SHCD121C | 1/2 | 100 |
| SHCD12150 | 1/2 | 150 |
| SHCD581C | 5/8 | 100 |
| SHCD341C | 3/4 | 100 |

| In Stock Colors |
|---|
| White w/ Black Tracer |
| Solid White |
| Solid Black |

| Special order Colors |
|---|
| Red |
| Blue |
| Yellow |
| Green |
| Teal |

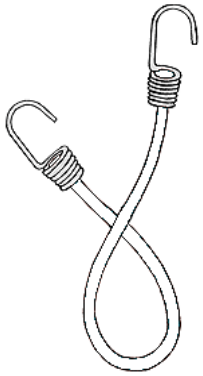
## LONG CONE SPRING HOOKS
### STAINLESS STEEL



Stainless steel, premium long cone spring hooks for use at the ends of our shock cord.

| Part # | Size (in) |
|---|---|
| HKCOSL316 | 3/16 |
| HKCOSL14 | 1/4 |
| HKCOSL516 | 5/16 |
| HKCOSL38 | 3/8 |
| HKCOSL12 | 1/2 |

## SHOCK CORD • WITH LONG HOOKS



| Part # | Size (in) | Length (in) |
|---|---|---|
| SHCDS12 | 3/8 | 12 |
| SHCDS16 | 3/8 | 16 |
| SHCDS24 | 3/8 | 24 |
| SHCDS32 | 3/8 | 32 |
| SHCDS36 | 3/8 | 36 |
| SHCDS48 | 3/8 | 48 |
| SHCDS56 | 3/8 | 56 |
| SHCDS64 | 3/8 | 64 |

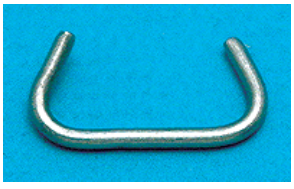
Our premium shock cord has a natural rubber core with a nylon cover and is available pre-assembled with 2 stainless steel long cone spring hooks that are corrosion resistant. These shock cords are white w/ black tracer.

## NYLON CONE HOOKS

| Part # | Size (in) | Color |
|---|---|---|
| HKCON3161 | 3/16 | Black |
| HKCON3168 | 3/16 | White |
| HKCON141 | 1/4 | Black |
| HKCON148 | 1/4 | White |
| HKCON5161 | 5/16 | Black |
| HKCON5168 | 5/16 | White |
| HKCON381 | 3/8 | Black |
| HKCON388 | 3/8 | White |

Nylon cone hooks can be attached to the ends of our shock cords and secured in place with C-clamps.

## C-CLAMPS • "HOG RINGS"



Our C-Clamps are made of stainless steel & are great for tying or clamping the shock cord once it is through nylon cone hook's eye.

| Part # | Size (in) | Trade Size | Pieces per Bag |
|---|---|---|---|
| CC18316 | 1/8-3/16 | #00 | 100 |
| CC316 | 3/16 | #00 | 100 |
| CC14 | 1/4 | #0 | 100 |
| CC516 | 5/16 | #1 | 100 |
| CC38 | 3/8 | #2 | 100 |
| CC12 | 1/2 | #3 | 100 |

## MIACORD SASH CORD


This is our all purpose, low stretch cotton cord with a fiberglass center. MiaCord sash cord is great for home, farm, camping, garden and clothesline applications.

- Color: Natural

| Part # | Size | Length (ft) |
|---|---|---|
| SCMIA650 | #6 | 50 |
| SCMIA61C | #6 | 100 |
| SCMIA65C | #6 | 500 |
| SCMIA61M | #6 | 1,000 |
| SCMIA750 | #7 | 50 |
| SCMIA71C | #7 | 100 |
| SCMIA850 | #8 | 50 |
| SCMIA81C | #8 | 100 |
| SCMIA85C | #8 | 500 |
| SCMIA81M | #8 | 1,000 |
| SCMIA1050 | #10 | 50 |
| SCMIA101C | #10 | 100 |
| SCMIA105C | #10 | 500 |
| SCMIA101M | #10 | 1,000 |
| SCMIA1250 | #12 | 50 |
| SCMIA121C | #12 | 100 |
| SCMIA125C | #12 | 500 |
| SCMIA121M | #12 | 1,000 |
| SCMIA165C | #16 | 500 |
| SCMIA161M | #16 | 1,000 |

## VENETIAN BLIND CORD


Also known as drapery cord or mason line, this braided cotton cord resists friction and weathering.

- Color: Natural

| Part # | Size | Length |
|---|---|---|
| CDVBC31248 | #3-1/2 | 48 ft, 2 hanks |
| CDVBC3125CY | #3-1/2 | 250 yards |
| CDVBC448 | #4 | 48 ft, 2 hanks |
| CDVBC41248 | #4-1/2 | 48 ft, 2 hanks |
| CDVBC4122CY | #4-1/2 | 250 yards |
| CDVBC4121MY | #4-1/2 | 1000 yards |

## COTTON MASON LINE


Also known as drapery cord or venetian blind cord, this braided cotton cord resists friction and weathering.

- Colors: Bright White & Natural

| Part # | Size | Length |
|---|---|---|
| CDML348 | #3 | 48 ft, 2 hanks |
| CDML31248 | #3-1/2 | 48 ft, 2 hanks |
| CDML3121M | #3-1/2 | 1,000 yds |
| CDML448 | #4 | 48 ft, 2 hanks |
| CDML4250Y | #4 | 250 yds |
| CDML41248 | #4-1/2 | 48 ft, 2 hanks |
| CDML548 | #5 | 48 ft, 2 hanks |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

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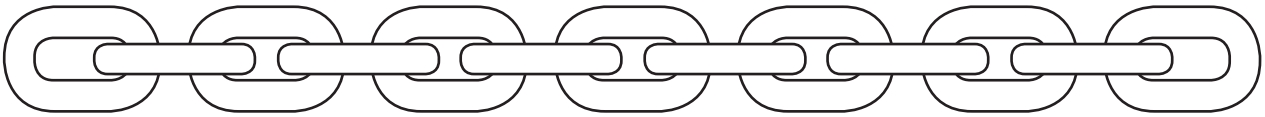
# CHAIN & CHAIN SLINGS





## ⚠ WARNING !!

**FAILURE TO FOLLOW WARNINGS & INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH**

Refer to Warnings on Pages 4-6.

These warnings also apply to cordage (rope). Only additional warnings and information are listed below.

- **NEVER EXCEED THE WORKING LOAD LIMIT OF CHAIN**
  The Working Load Limit (WLL) is the maximum load that should ever be applied to the chain, even when new and when the load is uniformly applied. The WLL applies only to straight line pulls. When using multiple leg chain slings, the WLLof each leg will have to be reduced considerably depending on the angle of the sling legs. Consult industry recommendations for information, such as ASME B 30.9.

  When in doubt as to the WLL of the chain, refer to the periodic, permanently embossed grade marking on chain links. Proof Coil Chain is identified by P.C. or 30 or 3 or 28; HighTest Chain by H.T. or 43 or 40 or 4; Transportation Chain by 70 or 7; Alloy Chain by 100 or 120.

- **USE ONLY ALLOY CHAIN FOR OVERHEAD LIFTING**
  Grade 100 & 120 alloy chain is the only type of chain which can be used for overhead lifting. Use only Grade 100 & 120, respectively, alloy fittings for overhead lifting.

- **ATTACHMENTS MUST HAVE AT LEAST THE SAME WORKING LOAD LIMIT AS THE CHAIN USED**
  Hooks, links, shackles, etc. must be of suitable material and strength to provide adequate safety protection.

- **KEEP OUT FROM UNDER A RAISED LOAD**
  Do not move load over people. Do not ride on load. Conduct all lifting operations in such a manner that if equipment were to fail or break, no personnel would be injured. This means **KEEP OUT FROM UNDER A RAISED LOAD, DO NOT OPERATE LOADS OVER PEOPLE AND KEEP OUT OF THE LINE OF FORCE.**

- **AVOID SHOCK LOADS**
  Avoid impacting, jerking or swinging of load. The WLL will not apply in these circumstances because a shock load is generally significantly greater than the static load.

- **INSPECT CHAIN FREQUENTLY**
  No product can keep operating at its rated capacity indefinitely. Closely examine each link for deformation, cracks, elongation, corrosion,rust, etc. Take chain out of service even if only one bad link is found. Eliminate twists and kinks in chain before using. Do not attempt to repair damaged or worn links in a chain. Do not attempt to weld, anneal, heat treat or hot galvanize alloy chain - its capacity will be completely destroyed. **PROTECT CHAIN FROM CORROSION.**

- **DESTROY, RATHER THAN DISCARD, CHAIN THAT IS JUDGED TO BE DEFECTIVE**
  Chain that is not destroyed might be used again by someone not aware of the hazard associated with that use. Destroying chain is best done by cutting it up into short pieces.

- **CHAIN SLINGS**
  Only Grade 100 or 120 alloy chain can be used for overhead lifting. Refer to OSHA standard 1910.184 and ASME standard B30.9 for design factors and other important information. Other standards and information may apply depending on specific use.

  Consult the sources listed under **ADDITIONAL REFERENCE MATERIAL** on page 6.

## GRADE 30 PROOF COIL

Made from Low Carbon Steel, Grade 30 Proof Coil Chain is a general utility chain that is useful for cargo lashing, pulling stumps, log chain, tailgate chain, guardrail & tow chain. Miami Cordage offers Grade 30 Proof Coil in either hot dip galvanized or electo galvanzied and we offer assemblies with any standard chain attachments. All Grade 30 Proof Coil is proof tested & a proof test certificate is furnished on request.

| Hot Galvanized Part # | Electro Galvanized Part # | Size (in) | Inside Length (in) | Inside Width (in) | WLL (lb) | Wt per 100 ft (lb) |
|---|---|---|---|---|---|---|
| CHG18 | CHEG18 | 1/8 | 0.89 | 0.29 | 400 | 18 |
| CHG316 | CHEG316 | 3/16 | 0.95 | 0.40 | 800 | 33 |
| CHG14 | CHEG14 | 1/4 | 1.00 | 0.58 | 1,300 | 56 |
| CHG516 | CHEG516 | 5/16 | 1.29 | 0.44 | 1,900 | 93 |
| CHG38 | CHEG38 | 3/8 | 1.23 | 0.62 | 2,650 | 138 |
| CHG12 | CHEG12 | 1/2 | 1.54 | 0.80 | 4,500 | 241 |
| CHG58 | CHEG58 | 5/8 | 2.20 | 0.87 | 6,900 | 351 |
| CHG34 | CHEG34 | 3/4 | 2.76 | 1.06 | 10,600 | 551 |
| CHG78 | CHEG78 | 7/8 | 3.15 | 1.22 | 12,800 | 676 |
| CHG1 | CHEG1 | 1 | 3.58 | 1.37 | 17,900 | 885 |

### FULL DRUMS

| Hot Galvanized Part # | Electro Galvanized Part # | Size (in) | Ft per Drum | Wt per Drum (lb) | WLL (lb) |
|---|---|---|---|---|---|
| CHG18 | CHEG18 | 1/8 | 2,000 | 380 | 400 |
| CHG316 | CHEG316 | 3/16 | 1,650 | 575 | 800 |
| CHG148C | CHEG14 | 1/4 | 800 | 524 | 1,300 |
| CHG516550 | CHEG516 | 5/16 | 550 | 532 | 1,900 |
| CHG384C | CHEG38 | 3/8 | 400 | 588 | 2,650 |
| CHG122C | CHEG12 | 1/2 | 200 | 500 | 4,500 |
| CHG58150 | CHEG58 | 5/8 | 150 | 557 | 6,900 |
| CHG341C | CHEG34 | 3/4 | 100 | 571 | 10,600 |
| CHG7880 | CHEG78 | 7/8 | 80 | 550 | 12,800 |
| CHG160 | CHEG1 | 1 | 60 | 532 | 17,900 |

### PAILS

| Hot Galvanized Part # | Electro Galvanized Part # | Size (in) | Ft per Pail | Wt per Pail (lb) | WLL (lb) |
|---|---|---|---|---|---|
| CHG3162C | CHEG3162C | 3/16 | 250 | 95 | 800 |
| CHG14141 | CHEG14141 | 1/4 | 141 | 91 | 1,300 |
| CHG51692 | CHEG51692 | 5/16 | 92 | 88 | 1,900 |
| CHG3863 | CHEG3863 | 3/8 | 63 | 92 | 2,650 |
| CHG1236 | CHEG1236 | 1/2 | 36 | 94 | 4,500 |



⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

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# WINDLASS CHAIN

## WINDLASS CHAIN • ACCO BBB HOT GALVANIZED

ACCO BBB (Bend Before Break) Hot Galvanized windlass chain is constructed from a low carbon steel and has short compact links which makes the chain more flexible and ideally suited as anchor chain. Hot dip galvanized finish is recommended for marine applications.

| Part # | Size (in) | Inside Length (in) | Inside Width (in) | WLL (lb) | Wt per 100 ft (lb) |
|---|---|---|---|---|---|
| CHBBBA14 | 1/4 | 0.87 | 0.43 | 1,300 | 73 |
| CHBBBA516 | 5/16 | 1.00 | 0.50 | 1,900 | 110 |
| CHBBBA38 | 3/8 | 1.09 | 0.62 | 2,650 | 163 |
| CHBBBA12 | 1/2 | 1.34 | 0.75 | 4,500 | 250 |

## WINDLASS CHAIN DOMESTIC • ACCO GRADE 43 HIGH TEST GALVANIZED

ACCO Grade 43 High Test Galvanized Chain is a high tensile strength, carbon steel chain with an ISO short link, which makes it more flexible and ideally suited as windlass chain.

- WLL is approximately twice that of comparably sized BBB or proof coil chain
- Hot galvanized flnish
- Proof tested at the factory

| Part # | Chain Size (in) | Inside Length (in) | Inside Width (in) | WLL (lb) | Wt per 100 ft (lb) |
|---|---|---|---|---|---|
| CHHTGA14 | 1/4 | 0.85 | 0.41 | 2,600 | 73 |
| CHHTGA516 | 5/16 | 1.03 | 0.51 | 3,900 | 103 |
| CHHTGA38 | 3/8 | 1.22 | 0.59 | 5,400 | 148 |
| CHHTGA716 | 7/16 | 1.40 | 0.65 | 7,200 | 206 |
| CHHTGA12 | 1/2 | 1.59 | 0.76 | 9,200 | 257 |
| CHHTGA58 | 5/8 | 1.79 | 0.90 | 13,000 | 421 |

## WINDLASS CHAIN IMPORT • GRADE 43 HIGH TEST GALVANIZED

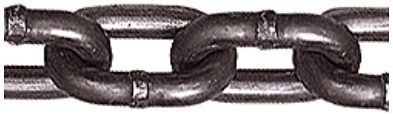
ACCO Grade 43 High Test Galvanized Chain is a high tensile strength, carbon steel chain with an ISO short link, which makes it more flexible and ideally suited as windlass chain.

- WLL is approximately twice that of comparably sized BBB or proof coil chain
- Hot galvanized flnish
- Proof tested at the factory

| Part # | Chain Size (in) | Inside Length (in) | Inside Width (in) | WLL (lb) | Wt per 100 ft (lb) |
|---|---|---|---|---|---|
| CHHTGI14 | 1/4 | 0.85 | 0.41 | 2,600 | 73 |
| CHHTGI516 | 5/16 | 1.03 | 0.51 | 3,900 | 103 |
| CHHTGI38 | 3/8 | 1.22 | 0.59 | 5,400 | 148 |
| CHHTGI12 | 1/2 | 1.59 | 0.76 | 9,200 | 257 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## GRADE 43 HIGH TEST



Self colored high test chain features both high tensile strength and resistance to wear needed by modern hauling and heavy duty trucking, farm and construction firms. Made from carbon steel, working load limits exceed those of ordinary low carbon or general utility chain.

| Part # | Chain Size (in) | Wire Dia. (in) | Inside Length (in) | Inside Width (in) | WLL (lb) | Wt per 100 ft (lb) | Ft per Drum | Wt per Drum (lb) |
|---|---|---|---|---|---|---|---|---|
| CHHTBT14 | 1/4 | 0.27 | 1.24 | 0.48 | 2,600 | 67 | 800 | 536 |
| CHHTBT516 | 5/16 | 0.33 | 1.29 | 0.48 | 3,900 | 100 | 550 | 550 |
| CHHTBT38 | 3/8 | 0.39 | 1.37 | 0.55 | 5,400 | 143 | 400 | 572 |
| CHHTBT12 | 1/2 | 0.51 | 1.78 | 0.75 | 9,200 | 234 | 200 | 468 |
| CHHTBT58 | 5/8 | 0.63 | 2.02 | 0.85 | 14,000 | 383 | 150 | 575 |

## BOOMER SLING • GRADE 43 HIGH TEST

Boomer chain sling with clevis grab hooks on both ends, standard length of 20 feet.

| Part # | Size | WLL (lb) | Wt (lb) |
|---|---|---|---|
| SLC51620HT | 5/16” x 20’ | 3,900 | 25 |
| SLC3820HT | 3/8” x 20’ | 5,400 | 33 |

## GRADE 70 TRANSPORT CHAIN

Grade 70 Transport Chain is the chain of choice for load binding applications. It is also well suited for tie-downs, towing and logging operations. Made from high-strength, heat treated steel. Grade 70 Chain meets Department of Transportation regulations. Do not use for overhead lifting.

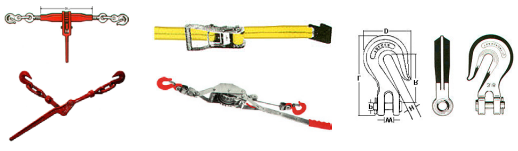
| Part # | Chain Size (in) | Wire Dia. (in) | Inside Length (in) | Width (in) | WLL (lb) | Wt per 100 ft (lb) | Ft per Drum | Wt per Drum (lb) |
|---|---|---|---|---|---|---|---|---|
| CHTG14 | 1/4 | 0.27 | 1.24 | 0.48 | 3,150 | 64 | 800 | 512 |
| CHTG516 | 5/16 | 0.33 | 1.12 | 0.48 | 4,700 | 102 | 550 | 561 |
| CHTG38 | 3/8 | 0.39 | 1.37 | 0.55 | 6,600 | 138 | 400 | 552 |
| CHTG12 | 1/2 | 0.51 | 1.78 | 0.75 | 11,300 | 234 | 200 | 468 |

## BOOMER SLING • GRADE 70 TRANSPORT

Boomer chain sling with clevis grab hooks on both ends, standard length of 20 feet.

| Part # | Size | WLL (lb) | Wt (lb) |
|---|---|---|---|
| SLC51620T | 5/16” x 20’ | 4,700 | 22 |
| SLC3820T | 3/8” x 20’ | 6,600 | 32 |

Please also turn to our:
**CARGO CONTROL TIE-DOWNS & LOAD SECUREMENT SYSTEMS**
section for information about these and other related products.



**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

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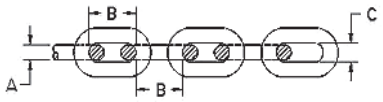
# STAINLESS STEEL CHAIN

## NACM STANDARD CHAIN • 316L STAINLESS STEEL

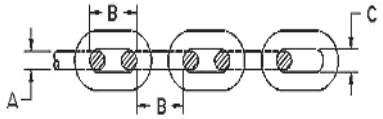



Type 316L Stainless Steel NACM Anchor Chain has Grade 43 High Test strength and is highly resistant to corrosion in tough marine environments.

- Most economic & commonly used stainless steel chain for both industrial & marine envivonments
- Stainless steel finish gives a refined look to the anchor lead chain
- Fits many standard windlasses, verify with manufacturer
- Complies fully with all requirements of the U.S. NACM'S specifications

| Part # | Size (in) | A (in) | B (in) | C (in) | WLL (lb) | BL (lb) | Wt per Ft (lb) |
|---|---|---|---|---|---|---|---|
| CHS532 | 5/32 | 0.16 | 0.77 | 0.28 | 500 | 2,000 | 0.23 |
| CHS316 | 3/16 | 0.20 | 0.92 | 0.34 | 930 | 3,720 | 0.32 |
| CHS14 | 1/4 | 0.25 | 1.00 | 0.43 | 1,570 | 6,280 | 0.57 |
| CHS516 | 5/16 | 0.32 | 1.03 | 0.49 | 2,400 | 9,600 | 0.92 |
| CHS38 | 3/8 | 0.39 | 1.22 | 0.61 | 3,550 | 14,200 | 1.50 |
| CHS12 | 1/2 (7/16) | 0.47 | 1.50 | 0.78 | 5,400 | 21,600 | 2.00 |
| CHS58 | 5/8 | 0.63 | 1.91 | 0.90 | 9,800 | 39,200 | 3.31 |
| CHS34 | 3/4 | 0.75 | 2.75 | 1.17 | 15,000 | 60,000 | 5.00 |
| CHS1 | 1 | 1.00 | 3.53 | 1.61 | 23,250 | 73,000 | 9.00 |

## BBB ANCHOR CHAIN • 316L STAINLESS STEEL

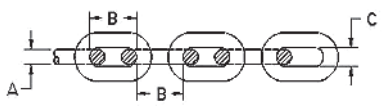



Type 316L Stainless Steel BBB (Bend Before Break) anchor chain is highly resistant to corrosion and stronger than galvanized chain and has a higher working load than high test, proof coil chain of the same size.

- The stainless steel finish gives a refined look to the anchor lead chain
- Fits most standard windlasses, verify with manufacturer
- Complies with all requirements of DIN 766

| Part # | Chan Size (in) | A (in) | B (in) | C (in) | WLL (lb) | BL (lb) | Wt per Ft (lb) |
|---|---|---|---|---|---|---|---|
| S06010007 | 1/4 | 0.28 | 0.87 | 0.36 | 2,000 | 8,000 | 0.76 |
| S06010008 | 5/16 | 0.32 | 0.95 | 0.41 | 2,400 | 9,600 | 0.94 |
| S06010010 | 3/8 | 0.39 | 1.10 | 0.54 | 3,750 | 15,000 | 1.60 |
| S06010013 | 1/2 | 0.51 | 1.38 | 0.74 | 6,500 | 26,000 | 2.74 |

## GRADE 4 WINDLASS CHAIN • 316L STAINLESS STEEL



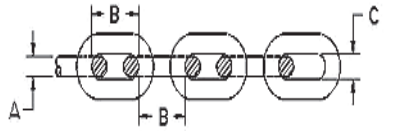

Type 316L Stainless Steel Grade 4 High Test Windlass Chain that can be used for a variety of demanding industrial and marine applications that require added corrosion resistance.

- Made to "G4" dimensions
- Stainless steel finish gives a refined look to the anchor lead chain
- Fits many standard windlasses, verify with manufacturer

| Part # | Chain Size (in) | A (in) | B (in) | C (in) | WLL (lb) | BL (lb) | Wt per Ft (lb) |
|---|---|---|---|---|---|---|---|
| S06040007 | 9/32 | 0.28 | 0.84 | 0.40 | 2,000 | 8,000 | 0.85 |
| S06040008 | 5/16 | 0.32 | 1.02 | 0.47 | 2,400 | 9,600 | 0.92 |
| S06040010 | 3/8 | 0.39 | 1.22 | 0.57 | 3,550 | 14,200 | 1.60 |
| S06040013 | 1/2 | 0.51 | 1.59 | 0.76 | 6,500 | 26,000 | 2.10 |

# STAINLESS STEEL CHAIN

## GRADE 50 LIFTING CHAIN • 316L STAINLESS STEEL

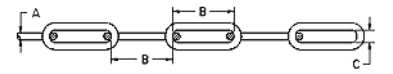



Type 316L Stainless Steel calibrated Grade 50 lifting chain that is made to Grade 80 dimensions. Grade 50 is the only stainless steel chain rated for overhead lifting and will resist pitting and most kinds of corrosion

- Never exceed working load limits, which are based on gradual pull & not shock loads.
- Make sure that all components in your assembly are overhead lifting rated & have the same working loads.

| Part # | Chain Size (in) | A (in) | B (in) | C (in) | WLL (lb) | BL (lb) | Wt per Ft (lb) |
|---|---|---|---|---|---|---|---|
| CHSG50316 | 3/16 | 0.19 | 0.58 | 0.25 | 1,100 | 4,400 | 0.36 |
| CHSG5014 | 1/4 | 0.28 | 0.85 | 0.38 | 2,200 | 8,800 | 0.97 |
| CHSG50516 | 5/16 | 0.32 | 0.95 | 0.45 | 2,700 | 10,800 | 0.98 |
| CHSG5038 | 3/8 | 0.39 | 1.18 | 0.55 | 4,400 | 17,600 | 1.41 |
| CHSG5012 | 1/2 | 0.51 | 1.55 | 0.75 | 7,300 | 29,200 | 2.60 |
| CHSG5058 | 5/8 | 0.63 | 1.89 | 0.85 | 11,000 | 44,000 | 3.83 |

## LONG LINK CHAIN • 304L STAINLESS STEEL

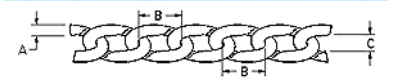



Long link chain can be used for gates, hanger assemblies, tethers, leashes, fence support & many other applications.

- Long life & non-rusting properties make if useful in corrosive evironments
- Links are on average 1.5 times longer than standard chain links
- Least expensive of Stainless Chain
- Complies with all requirements of DIN 5685-C

| Part # | Chain Size (in) | A (in) | B (in) | C (in) | WLL (lb) | BL (lb) | Wt per Ft (lb) |
|---|---|---|---|---|---|---|---|
| S06060001 | 5/64 | 0.08 | 0.48 | 0.14 | 180 | 720 | 0.06 |
| S06060002 | 3/32-7/64 | 0.10 | 0.69 | 0.16 | 300 | 1,200 | 0.10 |
| S06060003 | 1/8 | 0.12 | 1.03 | 0.20 | 380 | 1,520 | 0.11 |
| S06060004 | 5/32 | 0.15 | 1.26 | 0.35 | 500 | 2,000 | 0.18 |
| S06060005 | 3/16 | 0.20 | 1.42 | 0.39 | 900 | 3,600 | 0.28 |
| S06060006 | 1/4 | 0.24 | 1.62 | 0.47 | 1,200 | 4,800 | 0.42 |

## TWIST LINK CHAIN • 304 STAINLESS STEEL




Ideal for decorative applications, swings, animal control, wallets, accessories & more. Made from corrosion resistant Type 304 stainless steel.

| Part # | Chain Size (in) | A (in) | B (in) | C (in) | WLL (lb) | Wt per Ft (lb) |
|---|---|---|---|---|---|---|
| S06110001 | 5/64 | 0.07 | 0.30 | 0.13 | 150 | 0.07 |
| S06110002 | 3/32 | 0.09 | 0.31 | 0.16 | 190 | 0.09 |
| S06110003 | 1/8 | 0.11 | 0.50 | 0.27 | 280 | 0.13 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

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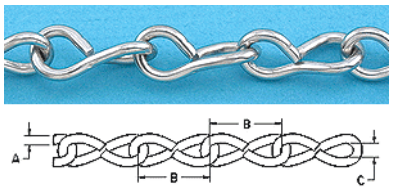
# STAINLESS STEEL CHAIN

## SINGLE JACK CHAIN • 304L STAINLESS STEEL




Single Jack Chain is ideal for hanging signs, lighting fixtures, flower pots, scales, children's toys & novelties.

- Type 304 Stainless Steel, Bright Zinc, & Brass Plated finishes in stock
- Hot Galvanized, Solid Brass, Black Polymer & other finishes available on special order
- Single Jack Chain complies fully with all requirements of the U.S. National Association of Chain Manufacturers' (NACM'S) specifications

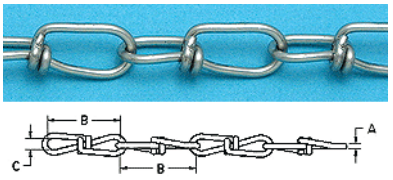
**STAINLESS STEEL**

| Part # | Chain Size (Trade & mm) | A (in) | B (in) | C (in) | WLL (lb) | BL (lb) | Wt per Ft (lb) |
|---|---|---|---|---|---|---|---|
| S0621-0000 | #18 (1.2 mm) | 0.05 | 0.39 | 0.12 | 5 | 20 | 1.85 |
| S0621-0001 | #16 (1.6 mm) | 0.06 | 0.52 | 0.15 | 10 | 40 | 3.00 |
| S0621-0002 | #14 (2.0 mm) | 0.08 | 0.63 | 0.20 | 16 | 65 | 5.00 |
| S0621-0003 | #12 (2.5 mm) | 0.10 | 0.75 | 0.23 | 29 | 115 | 8.50 |
| S0621-0004 | #10 (3.3 mm) | 0.13 | 0.85 | 0.31 | 43 | 170 | 14.70 |

**BRIGHT ZINC & BRASS PLATED**

| Part # | Chain Size (Trade & mm) | Length/ Reel (ft) | Surface Finish | Dia. (in) | WLL (lb) | Wt per Ft (lb) |
|---|---|---|---|---|---|---|
| CHRSJZ201C | #20 | 100 | Bright Zinc | - | - | - |
| CHRSJZ181C | #18 (1.2 mm) | 100 | Bright Zinc | 0.05 | - | - |
| CHRSJZ16250 | #16 (1.6 mm) | 250 | Bright Zinc | 0.06 | 10 | 8 |
| CHRSJZ142C | #14 (2.0 mm) | 200 | Bright Zinc | 0.08 | 16 | 10 |
| CHRSJZ121C | #12 (2.5 mm) | 100 | Bright Zinc | 0.11 | 29 | 8 |
| CHRSJZ101C | #10 (3.3 mm) | 100 | Bright Zinc | 0.14 | 43 | 15 |
| CHRSJBP16250 | #16 (1.6 mm) | 250 | Brass Plated | 0.06 | 10 | 8 |
| CHRSJBP142C | #14 (2.0 mm) | 200 | Brass Plated | 0.08 | 16 | 10 |
| CHRSJBP121C | #12 (2.5 mm) | 100 | Brass Plated | 0.11 | 29 | 9 |
| CHRSJBP101C | #10 (3.3 mm) | 100 | Brass Plated | 0.14 | 43 | 15 |

## DOUBLE LOOP CHAIN • 304 STAINLESS STEEL




Double Loop Chain is a general utility chain for multiple applications such as playground & gym equipment, flourescent lights, boats, gates, porch swings, halter, dennel, dog runner, cow ties & tie-out chains.

- Available in Type 304 Stainless Steel & Bright Zinc Finishes
- Other finishes available on special order
- Complies fully with all requirements of of the U.S. National Associa-tion of Chain Manufacturers' (NACM'S) specifications

**STAINLESS STEEL**

| Part # | Chain Size | A (in) | B (in) | C (in) | WLL (lb) | BL (lb) | Wt per Ft (lb) |
|---|---|---|---|---|---|---|---|
| S0626-0003 | #3 | 0.08 | 1.14 | 0.25 | 90 | 360 | 6.1 |
| S0626-0003 | #1 | 0.11 | 1.71 | 0.35 | 155 | 620 | 10.0 |
| S0626-0003 | 2/0 | 0.14 | 1.82 | 0.37 | 255 | 1,020 | 17.0 |

**BRIGHT ZINC (ELECTO GALVANIZED) • LOW CARBON STEEL**

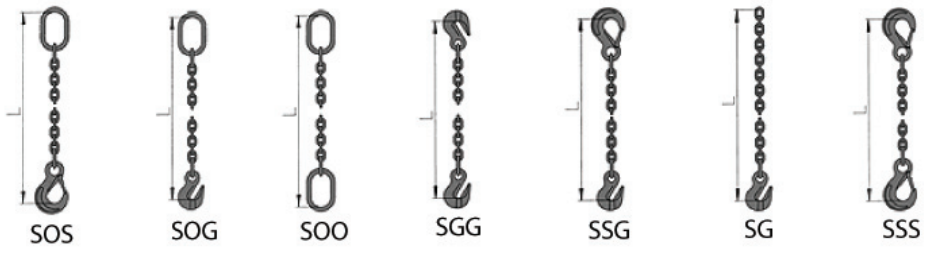
| Part # | Chain Size | WLL (lb) | Dia. (in) | Package Type | Length/ Package (ft) | Wt per Package (lb) |
|---|---|---|---|---|---|---|
| CHRDL32C | #3 | 90 | 0.080 | Reel | 200 | 12 |
| CHRDL12C | 1 | 155 | 0.105 | Reel | 200 | 20 |
| CHRDL101C | 1/0 | 200 | 0.120 | Reel | 100 | 13 |
| CHRDL20175 | 2/0 | 255 | 0.135 | Reel | 175 | 29 |
| CHRDL301C | 3/0 | 305 | 0.148 | Reel | 100 | 22 |
| CHRDL20250 | 2/0 | 255 | 0.135 | Carton | 250 | 57 |

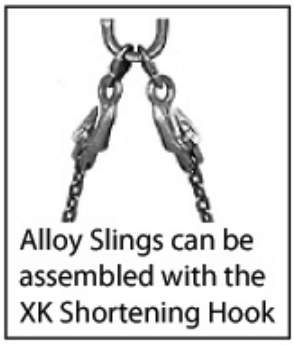
⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# GRADE 100 & 120 ALLOY CHAIN SLINGS



Miami Cordage/Florida Wire & Rigging Works custom fabricates chain slings to your specs here in our rigging shop. Chain slings can be made with Connex connecting links and accessories ready fitted, clevis fittings, or in welded construction. Should you require any chain sling assemblies other than those shown here, please send us a sketch of the desired model. The standard tolerance for the length "L" is + 2 - 0 chain pitch.






## CHAIN SLING TYPE NAMING CODE

Basic chain sling configurations are often described using a code. Naming conventions have many exceptions and may vary among manufacturers.

1. First Letter often designates the number of legs or branches:
   **S** Single leg with one branch
   **D** Double leg with two branches
   **T** Triple leg with three branches
   **Q** Quadruple leg sling with four branches

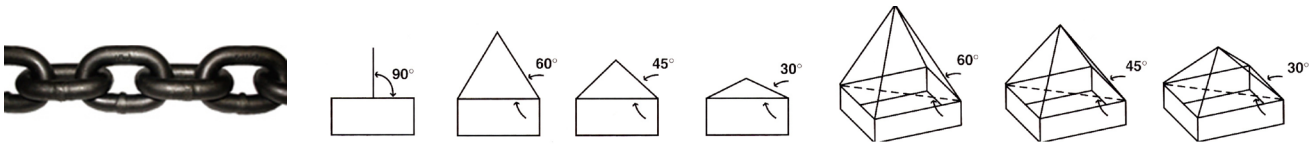
2. Second letter normally designates the fitting at the top of the sling:
   **O** Oblong shaped master link
   **S** Sling hook
   **G** Grab hook
   **B** Basket with oblong master link

3. Basic chain sling configurations are often described using a code. Naming conventions have many exceptions and may vary among manufacturers.
   **S** Sling hook
   **G** Grab hook
   **O** Oblong master link

If **A** preceds the group of letters, then a device to adjust the length has been added.

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

## GRADE 100 WORKING LOAD LIMITS




| Grade 100 Alloy Chain Size (in) | Working Load Limits (lb) | | | | | | |
|---|---|---|---|---|---|---|---|
| | Single 90° | Double 90-60° | Double 90-45° | Double 90-30° | Tri & Quad 90-60° | Tri & Quad 90-45° | Tri & Quad 90-30° |
| 9/32 (7 mm) | 4,300 | 7,400 | 6,100 | 4,300 | 11,200 | 9,100 | 6,400 |
| 5/16 (8 mm) | 5,700 | 9,900 | 8,100 | 5,700 | 14,800 | 12,100 | 8,500 |
| 3/8 (10 mm) | 8,800 | 15,200 | 12,400 | 8,800 | 22,900 | 18,700 | 13,200 |
| 1/2 (13 mm) | 15,000 | 26,000 | 21,200 | 15,000 | 39,000 | 31,800 | 22,500 |
| 5/8 (16 mm) | 22,600 | 39,100 | 32,000 | 22,600 | 58,700 | 47,900 | 33,900 |
| 3/4 (20 mm) | 35,300 | 61,100 | 49,900 | 35,300 | 91,700 | 74,900 | 53,000 |
| 7/8 (22 mm) | 42,700 | 74,000 | 60,400 | 42,700 | 110,900 | 90,600 | 64,000 |

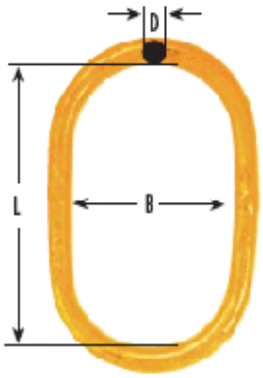
## GRADE 100 • ALLOY CHAIN


| Part # | Chain Size (in) | WLL (lb) at 90° | D (in) | E (in) | H (in) | Wt per 100 ft (lb) |
|---|---|---|---|---|---|---|
| CHA932 | 9/32 | 4,300 | 0.28 | 0.83 | 0.41 | 77 |
| CHA516 | 5/16 | 5,700 | 0.32 | 0.94 | 0.45 | 97 |
| CHA38 | 3/8 | 8,800 | 0.40 | 1.18 | 0.58 | 151 |
| CHA12 | 1/2 | 15,000 | 0.52 | 1.54 | 0.72 | 253 |
| CHA58 | 5/8 | 22,600 | 0.63 | 1.89 | 0.87 | 450 |
| CHA34 | 3/4 | 35,300 | 0.79 | 2.36 | 1.12 | 630 |
| CHA78 | 7/8 | 34,200 | 0.87 | 2.60 | 1.20 | 715 |

- Each link calibrated & pull tested to 2-1/2 times the Working Load Limit
- Minimum elongation of 20%
- Fully hardened & tempered alloy steel
- Distinctive black finish
- Links embossed with grade and traceability code

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

## OBLONG MASTER LINK • GRADE 100 FITTING




**FOR USE WITH WIRE ROPE**

| Part # | Ring Size (in) | WLL (lb) | L (in) | B (in) | D (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| L109012 | 1/2 | 7,000 | 4.70 | 2.80 | 0.55 | 0.88 |
| L109058 | 5/8 | 11,400 | 5.50 | 3.10 | 0.67 | 1.80 |
| L109034 | 3/4 | 12,300 | 5.90 | 3.50 | 0.75 | 2.20 |
| L109078 | 7/8 | 17,200 | 6.30 | 3.70 | 0.87 | 3.30 |
| L10901 | 1 | 29,900 | 7.50 | 4.30 | 1.10 | 5.10 |
| L1090114 | 1-1/4 | 35,200 | 7.90 | 4.70 | 1.20 | 7.70 |
| L1090138 | 1-3/8 | 45,300 | 9.40 | 5.50 | 1.30 | 11.70 |
| L1090112 | 1-1/2 | 68,000 | 9.80 | 5.90 | 1.50 | 15.40 |
| L1090158 | 1-5/8 | 70,400 | 9.80 | 5.90 | 1.60 | 17.60 |
| L1090134 | 1-3/4 | 84,900 | 11.80 | 7.10 | 1.80 | 26.40 |
| L10902 | 2 | 102,600 | 11.80 | 7.90 | 2.00 | 33.10 |
| L1090214 | 2-1/4 | 143,100 | 13.80 | 7.90 | 2.20 | 46.30 |

**FOR USE WITH GRADE 100 CHAIN SLINGS**

| Part # Ring Size (in) | | 1-Leg | | 2-Leg | | L (in) | B (in) | D (in) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain Size (in) | WLL (lb) | Chain Size (in) | WLL (lb) | | | | |
| L109012 | 1/2 | 9/32 | 2,700 | - | - | 4.70 | 2.80 | 0.55 | 0.88 |
| L109012 | 1/2 | 5/16 | 5,700 | 7/32 | 4,700 | 4.70 | 2.80 | 0.55 | 0.88 |
| L109058 | 5/8 | 3/8 | 8,800 | 9/32 | 7,400 | 5.50 | 3.10 | 0.67 | 1.80 |
| L109058 | 5/8 | | - | 5/16 | 9,900 | 5.50 | 3.10 | 0.67 | 1.80 |
| L109034 | 3/4 | 1/2 | 15,000 | - | - | 5.90 | 3.50 | 0.75 | 2.20 |
| L109078 | 7/8 | - | - | 3/8 | 15,200 | 6.30 | 3.70 | 0.87 | 3.30 |
| L10901 | 1 | 5/8 | 22,600 | 1/2 | 26,000 | 7.50 | 4.30 | 1.10 | 5.10 |
| L1090114 | 1-1/4 | 3/4 | 35,300 | - | - | 7.90 | 4.70 | 1.20 | 7.70 |
| L1090138 | 1-3/8 | - | - | 5/8 | 39,100 | 9.40 | 5.50 | 1.30 | 4.70 |
| L1090158 | 1-5/8 | - | - | 3/4 | 61,000 | 9.80 | 5.90 | 1.60 | 17.20 |

- Extra width (B dimension) inside allows better fit on larger crane hooks
- Well suited for use with chain, wire rope and synthetic slings
- Full traceability for each component
- Each of the components has been Proof Tested and Certified

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**



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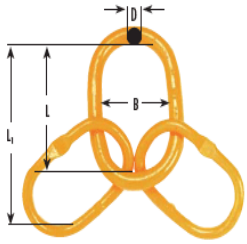
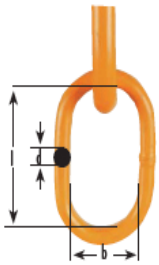
## OBLONG MASTER LINKS WITH SUBASSEMBLIES • GRADE 100 FITTING




**FOR USE WITH WIRE ROPE**

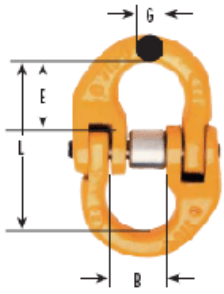
| Part # | Ring Size (in) | WLL (lb) | L1 (in) | L (in) | B (in) | D (in) | l (in) | b (in) | d (in) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|---|
| L108534 | 3/4 | 11,000 | 10.60 | 5.90 | 3.50 | 0.75 | 4.70 | 2.80 | 0.55 | 4.00 |
| L108578 | 7/8 | 17,600 | 11.80 | 6.30 | 3.70 | 0.87 | 5.50 | 3.10 | 0.67 | 6.80 |
| L10851 | 1 | 21,300 | 13.40 | 7.50 | 4.30 | 1.00 | 5.90 | 3.50 | 0.75 | 9.50 |
| L1085114 | 1-1/4 | 35,200 | 14.20 | 7.90 | 4.70 | 1.20 | 6.30 | 3.70 | 0.87 | 14.30 |
| L1085112 | 1-5/8 | 57,200 | 17.70 | 9.80 | 5.90 | 1.60 | 7.90 | 4.70 | 1.20 | 33.10 |
| L10852 | 2 | 77,000 | 19.70 | 11.80 | 7.90 | 2.00 | 7.90 | 4.70 | 1.30 | 50.70 |
| L1085214 | 2-1/4 | 110,100 | 21.70 | 11.80 | 7.90 | 2.20 | 9.80 | 5.90 | 1.50 | 72.70 |

**FOR USE WITH GRADE 100 CHAIN SLINGS, 3 & 4 LEG BRIDLES**

| Part # | Ring Size (in) | Chain Size (in) | WLL (lb) | L1 (in) | L (in) | B (in) | D (in) | l (in) | b (in) | d (in) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| L108534 | 3/4 | 7/32 | 7,000 | 10.60 | 5.90 | 3.50 | 0.75 | 4.70 | 2.80 | 0.55 | 4.00 |
| L108578 | 7/8 | 9/32 | 11,200 | 11.80 | 6.30 | 3.70 | 0.87 | 5.50 | 3.10 | 0.67 | 6.80 |
| L108578 | 7/8 | 5/16 | 14,800 | 11.80 | 6.30 | 3.70 | 0.87 | 5.50 | 3.10 | 0.67 | 6.80 |
| L1085114 | 1-1/4 | 3/8 | 22,900 | 14.20 | 7.90 | 4.70 | 1.20 | 6.30 | 3.70 | 0.87 | 14.30 |
| L1085112 | 1-5/8 | 1/2 | 39,000 | 17.70 | 9.80 | 5.90 | 1.60 | 7.90 | 4.70 | 1.20 | 33.10 |
| L10852 | 2 | 5/8 | 58,700 | 19.70 | 11.80 | 7.90 | 2.00 | 7.90 | 4.70 | 1.30 | 50.70 |
| L1085214 | 2-1/4 | 3/4 | 91,700 | 21.70 | 11.80 | 7.90 | 2.20 | 9.80 | 5.90 | 1.50 | 72.70 |

- Extra wide primary master link (B dimension) allows better fit on large crane hooks
- Extra wide subassemblies (b dimension) to accommodate more fittings without crowding
- Well suited for use with chain, wire rope and synthetic slings
- Full traceability for each component
- Each of the components has been Proof Test and Certified

## COUPLING LINK • GRADE 100 FITTING

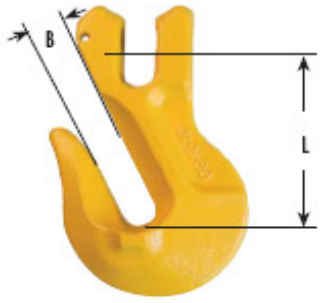



| Part # | Size (in) | WLL (lb) | L (in) | B (in) | G (in) | E (in) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| L1060516 | 5/16 | 5,700 | 2.20 | 0.71 | 0.35 | 0.87 | 0.44 |
| L106038 | 3/8 | 8,800 | 2.70 | 0.98 | 0.47 | 1.00 | 0.66 |
| L106012 | 1/2 | 15,000 | 3.50 | 1.10 | 0.59 | 1.30 | 1.50 |
| L106058 | 5/8 | 22,600 | 4.10 | 1.40 | 0.75 | 1.60 | 2.60 |
| L106034 | 3/4 | 35,300 | 4.90 | 1.70 | 1.00 | 2.80 | 5.70 |
| L106078 | 7/8 | 44,200 | 6.00 | 2.00 | 0.95 | 2.30 | 6.60 |

- The couling link can be used as a top fitting to attach chain legs to the master link or as a bottom fitting to attach a plate clamp, engineered device or shackle to chain sling leg
- Wide body (B dimension) for extra room and heavy duty galvanized retaining collar houses square stainless steel locking spring
- Center pin has recess for strong mechanical lock
- Full traceability and proof tested to 2-1/2 times the Working Load Limit

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

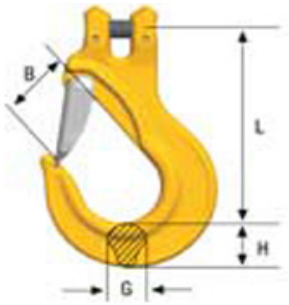
## CLEVIS GRAB HOOK • GRADE 100 FITTING




| Part # | Chain Size (in) | WLL (lb) | L (in) | B (in) | Wt (lb) |
|---|---|---|---|---|---|
| L1073932 | 9/32 | 4,300 | 2.30 | 0.39 | 0.77 |
| L1073516 | 5/16 | 5,700 | 2.20 | 0.41 | 0.88 |
| L107338 | 3/8 | 8,800 | 3.30 | 0.47 | 1.80 |
| L107312 | 1/2 | 15,000 | 3.80 | 0.63 | 3.70 |
| L107358 | 5/8 | 22,600 | 4.90 | 0.79 | 6.80 |
| L107334 | 3/4 | 28,300 | 5.70 | 0.89 | 10.60 |

- Clevis design prevents hook to chain mismatch and has deep chain pocket design
- Chain is cradled on cross bar so there is no reduction in Working Load Limit of a shortened leg as long as the sling leg angle does not change
- Full traceability and proof tested to 2-1/2 times the Working Load Limit

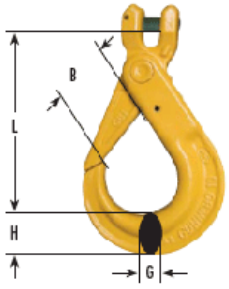
## CLEVIS SLING HOOK WITH LATCH • GRADE 100 FITTING




| Part # | Chain Size (in) | WLL (lb) | L (in) | B (in) | G (in) | H (in) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| L1065932 | 9/32 | 4,300 | 3.70 | 1.10 | 0.67 | 0.87 | 1.10 |
| L1065516 | 5/16 | 5,700 | 3.70 | 1.20 | 0.67 | 0.87 | 1.10 |
| L106538 | 3/8 | 8,800 | 4.80 | 1.60 | 0.91 | 1.20 | 2.20 |
| L106512 | 1/2 | 15,000 | 5.70 | 1.90 | 1.10 | 1.50 | 4.40 |
| L106558 | 5/8 | 22,600 | 6.70 | 2.30 | 1.40 | 1.80 | 8.40 |
| L106534 | 3/4 | 28,300 | 8.30 | 2.40 | 1.70 | 2.00 | 13.20 |

- Wide throat opening for easy rigging with a stainless steel latch spring that interlocks with hook body
- Full traceability and proof tested to 2-1/2 times the Working Load Limit

## CLEVIS SELF LOCKING HOOK WITH GRIP LATCH • GRADE 100 FITTING

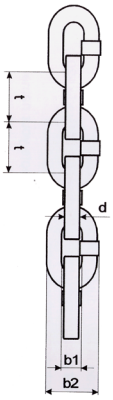



| Part # | Chain Size (in) | WLL (lb) | L (in) | B (in) | G (in) | H (in) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| L1062932 | 9/32 | 4,300 | 4.70 | 1.50 | 0.79 | 0.87 | 1.80 |
| L1062516 | 5/16 | 5,700 | 4.70 | 1.50 | 0.79 | 0.87 | 1.80 |
| L106238 | 3/8 | 8,800 | 5.90 | 1.90 | 0.94 | 1.10 | 2.90 |
| L106212 | 1/2 | 15,000 | 6.80 | 2.10 | 1.10 | 1.40 | 5.30 |
| L106234 | 3/4 | 22,600 | 8.50 | 2.40 | 1.50 | 2.00 | 12.30 |

- Clevis design prevents hook to chain mismatch and features a deep chain pocket design
- BKL latch closes automatically under load
- Full traceability and proof tested to 2-1/2 times the Working Load Limit

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

## GRADE 120 ALLOY CHAIN




Pewag Grade 120 alloy chain has a 50% higher work load limit over Grade 80 chain, allowing a downsizing of chains and resulting in lower weights for chain slings.

- Square-links out performs round-links
- Higher wear & bending resistance
- Higher safety factor
- Powder coated finish in blue, allowing for easy identification and corrosion protection
- Meets or exceeds NACM/ASTM test requirements for lifting chains

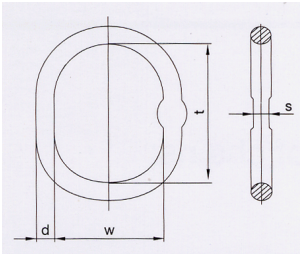
| Part # | Chain Size (in) | Nominal Thickness d | Pitch t | Width | | WLL at 90° (lb) Safety Factor 4:1 | Manufac-turing Test Load (lb) | Breaking Load (lb) | Wt per Ft (lb) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Inside b1 min. | Outside b2 min. | | | | |
| CH120932 | 9/32 | 0.28 | 0.87 | 0.39 | 1.02 | 5,200 | 10,400 | 20,800 | 0.87 |
| CH12038 | 3/8 | 0.39 | 1.30 | 0.56 | 1.46 | 10,600 | 21,200 | 42,400 | 1.75 |
| CH12012 | 1/2 | 0.51 | 1.61 | 0.73 | 1.95 | 17,900 | 35,800 | 71,600 | 3.09 |

| Safety Factor | 1-leg slings | 2-leg slings | | | 3-leg & 4-leg slings | | |
|---|---|---|---|---|---|---|---|
| 4:1 |  |  | | |  | | |
| Angle | 90 degrees | 60 de-grees | 45 degrees | 30 degrees | 60 degrees | 45 degrees | 30 dgrees |
| Load Factor | 1 | | | | | | |
| 9/32” | 5,200 | 9,000 | 7,400 | 5,200 | 13,500 | 11,000 | 7,800 |
| 3/8” | 10,600 | 18,400 | 15,000 | 10,600 | 27,500 | 22,500 | 15,900 |
| 1/2” | 17,900 | 31,000 | 25,300 | 17,900 | 46,500 | 38,000 | 26,900 |

1. **50% HIGHER WORKING LOAD LIMIT:** Grade 120 offers + 50% higher WLL over Grade 80 allowing a down-sizing of chains.
2. **WEIGHT REDUCTION:** The downsizing of chain results inlower weights for chain slings.
3. **HIGHER WEAR RESISTANCE:** Due to the special form of the profile chain, a larger contact is acheived be-tween the bearing surfaces of the links. This, in turn reduces the surface pressure on the chain and consequently reduces wear substantially. This is a real advantage in abrasive environments.
4. **BENDING RESISTANCE:** The new profile G120 chain has up to 38% higher moment of resistance compared to regular round-link chains with the same diameter. Therefore, the chain can withstand bending forces better than round-link chains and is well equipped for heavy applications.
5. **HIGHER SAFETY FACTOR:** With same dimension of chain and workload, G120 offers a safety factor of 6:1.
6. **COLOR-CODED CORROSION PROTECTION:** G120 has a powder coated finish in blue, which provides easy identification and corrosion protection.
7. **G120 MEETS OR EXCEEDS THE FOLLOW NACM/ASTM-TEST REQUIREMENTS FOR LIFTING CHAIN:**
   - Exceeds the 4:1 NACM safety factor if G80 loading is used
   - Meets the NACM standard for heat resistance with 400° F
   - Meets the 20,000 cycle ASTM-Standard fatigue-test for Grade 100

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

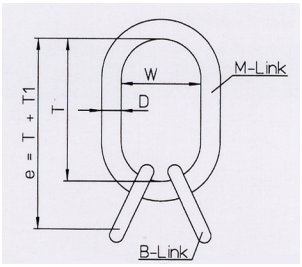
## ENLARGED MASTER LINK • GRADE 120 FITTING




| Part # | For Single Leg Sling (in) | WLL at 90° (lb) | Breaking Load (lb) | d | t | w | s | Wt per peice (lb) |
|---|---|---|---|---|---|---|---|---|
| PWM1320 | 9/32 | 5,200 | 20,800 | 0.55 | 4.72 | 2.76 | 0.39 | 0.97 |
| PWM1820 | 3/8 | 10,600 | 42,400 | 0.75 | 6.30 | 3.74 | 0.55 | 2.67 |
| PWM2620 | 1/2 | 17,900 | 71,600 | 1.06 | 7.48 | 4.33 | 0.79 | 5.84 |

Master link for one leg slings or end link. Proof tested 2x WLL, WLL for master link only.

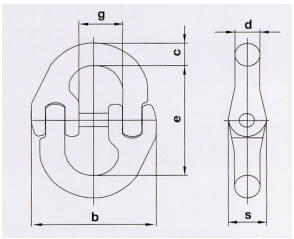
## MASTER LINK WITH SUBASSEMBLIES • GRADE 120 FITTING




| Part # | For Double Leg Sling (in) | For 3- and 4- Leg Sling (in) | e | Weight per Piece (lb) | M-Link | | |
|---|---|---|---|---|---|---|---|
| | | | | | D | T | W |
| PWVM720 | 9/32 | - | 8.43 | 3.42 | 0.75 | 6.30 | 3.74 |
| PWVM10720 | 3/8 | 9/32 | 10.24 | 7.43 | 1.06 | 7.48 | 4.33 |
| PWVM131020 | 1/2 | 3/8 | 12.40 | 13.23 | 1.30 | 9.06 | 5.12 |
| PWVM1320 | - | 1/2 | 16.34 | 24.52 | 1.50 | 10.83 | 5.91 |

Master link assemble for multi leg slings, proof tested.

## CONNEX-CONNECTING LINK • GRADE 120 FITTING



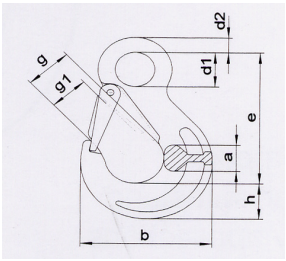

| Part # | WLL (lb) | Chain Size (in) | e | c | s | d | b Max. | g | Weight per peice (lb) |
|---|---|---|---|---|---|---|---|---|---|
| PWC720 | 5,200 | 9/32 | 2.01 | 0.43 | 0.52 | 0.35 | 1.83 | 0.64 | 0.26 |
| PWC1020 | 10,600 | 3/8 | 2.77 | 0.63 | 0.79 | 0.50 | 2.58 | 0.85 | 0.73 |
| PWC1320 | 17,900 | 1/2 | 3.74 | 0.83 | 0.95 | 0.66 | 3.31 | 1.02 | 1.54 |

General connecting link for connection of master links to chain or chain to components.

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

# GRADE 120 ALLOY CHAIN & LIFTING COMPONENTS

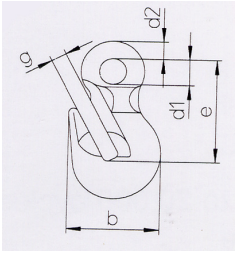
## EYE SLING HOOK • GRADE 120 FITTING




| Part # | Chain Size (in) | WLL (lb) | e | h | a | d1 | d2 | g1 | b | Weight per Peice (lb) |
|---|---|---|---|---|---|---|---|---|---|---|
| PWHS720 | 9/32 | 5,200 | 3.98 | 1.10 | 0.75 | 0.98 | 0.43 | 1.02 | 3.47 | 1.10 |
| PWHS1020 | 3/8 | 10,600 | 5.16 | 1.30 | 1.02 | 1.34 | 0.63 | 1.22 | 4.27 | 2.38 |
| PWHS1320 | 1/2 | 17,900 | 6.26 | 1.65 | 1.30 | 1.70 | 0.75 | 1.53 | 5.26 | 4.03 |

General purpose hook with forged safety latch.

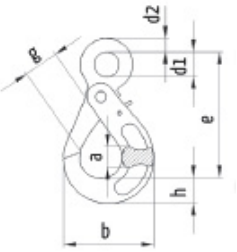
## EYE GRAB HOOK • GRADE 120 FITTING




| Part # | Chain Size (in) | WLL (lb) | e | b | d1 | d2 | g | Weight per Piece (lb) |
|---|---|---|---|---|---|---|---|---|
| PWP720 | 9/32 | 5,200 | 2.78 | 2.29 | 0.79 | 0.45 | 0.41 | 0.88 |
| PWP1020 | 3/8 | 10,600 | 3.47 | 2.99 | 0.87 | 0.59 | 0.51 | 1.43 |
| PWP1320 | 1/2 | 17,900 | 4.45 | 3.98 | 1.02 | 0.71 | 0.67 | 3.00 |

Does not require WLL reduction when used for shortening.

## SELF LOCKING HOOK • GRADE 120 FITTING




| Part # | Chain Size (in) | WLL (lb) | e | h | a | b | d1 | d2 | g | Weight per Peice (lb) |
|---|---|---|---|---|---|---|---|---|---|---|
| PWLH720 | 9/32 | 5,200 | 4.97 | 1.00 | 0.93 | 3.52 | 0.97 | 0.53 | 1.34 | 2.00 |
| PWLH1020 | 3/8 | 10,600 | 6.20 | 1.23 | 1.09 | 4.39 | 1.21 | 0.66 | 1.83 | 3.50 |
| PWLH1320 | 1/2 | 17,900 | 8.07 | 1.56 | 1.32 | 5.72 | 1.57 | 0.86 | 2.18 | 7.50 |

Automatically closes & locks under load for higher safety.

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

# SECURITY CHAINS AND LOCKS



## THRU HARDENED SECURITY CHAIN

| Part # | Chain Size (in) | Inside Length (in) | Inside Width (in) | Wt/Ft (lb) |
|---|---|---|---|---|
| CHCH38 | 0.39 | 1.49 | 0.62 | 1.61 |

Laclede's Security Chain is a unique product that provides an extremely high level of security and is one of the most secure chains available on the market today. The 3/8" square link, made from thru hardened alloy chain, is custom cut here in our rigging shop to your desired length. Square heat treated links make it extremely difficult to cut through with conventional bolt cutters and provids much higher resistance to cutting that the traditional round bar stock used to make most chains, making it an ideal chain for security uses. Security chain is pefect for construction equipment, trailers, ATVs, watercrafts, motorcycles and your other valuables.

## TITAN SECURITY LOCK

Titan's cylindrical case hardened locks are designed to stand up to the best efforts of lock pickers. The locks, fastened to the chain, can be opened and closed in one easy movement, without any need to align the two ends. It is impossible to insert a lever into the small space left between the lock and chain. Titan's drill-proof lock is protected from the elements by a plastic ring. The key, provided with a plastic grip, can only be removed when the lock is closed.

## SECURITY CHAIN & TITAN LOCK ASSEMBLY

Our security chain with cylindrical titan lock is a unique product that provides an extremely high level of security. The 3/8" square link, case hardened, alloy chain is custom cut here in our rigging shop to your desired length. The Titan security lock is then assembled with the chain to create what we believe to be the strongest security chain available on the market.

Please call for a price quote as this is a custom product.

## AMERICAN PADLOCK

| Part # | Width (in) | Thickness (in) | Shackle Height (in) |
|---|---|---|---|
| LOCKKA | 2.5 | 1-1/8 | 2 |
| LOCKKD | 2.5 | 1-1/8 | 2 |

American lock round body padlocks offer the greatest security and fit for real world applications. They are virtually indestructible with hardened, chrome plated, solid steel bodies that resist cutting, sawing & corrosion. The shackle is made from boron alloy steel that offer superior resistance to cutting. We offer either keyed alike or keyed different options.

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# ELECTRO GALVANIZED CHAIN

## PASSING LINK CHAIN • ELECTRO GALVANIZED

| Part # | Size | Dia. (in) | Length (ft) | Inside Length (in) | Inside Width (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| CHRPL20150 | #2/0 | 0.19 | 150 (reel) | 0.85 | 0.46 | 450 | 49 |
| CHRPL203C | #2/0 | 0.19 | 300 (pail) | 0.85 | 0.46 | 450 | 95 |

Passing link chain has links with a wide design that permits two adjacent links to pass freely of one another, reducing tendency to kink. This chain is commonly used for animal ties, farm machinery and general utility.

- Low Carbon Steel
- Bright Zinc finish (Electro Galv.)

## MACHINE CHAIN • ELECTRO GALVANIZED

Machine chain is made from low carbon steel and has a short link, welded chain for general use where compactness & extra flexibility are desired. Generally used on tailgates, agricultural implements & industrial equipment & can be assembled with any standard chain attachment such as: hooks, snaps, rings, eyebolts, S-hooks.

* Other finishes available on special order

**STRAIGHT LINK**

| Part # | Size (in) | Length (ft) | Dia. (in) | Inside Length (in) | Inside Width (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| CHRSLM41C | #4 | 100 (reel) | 0.12 | 0.55 | 0.21 | 215 | 11 |
| CHRSLM2250 | #2 | 250 (reel) | 0.15 | 0.61 | 0.26 | 325 | 46 |
| CHRSLM20150 | 2/0 | 150 (reel) | 0.19 | 0.78 | 0.34 | 545 | 48 |

**TWIST LINK**

| Part # | Size (in) | Length (ft) | Dia. (in) | Inside Length (in) | Inside Width (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| CHRTLM42C | #4 | 200 (reel) | 0.12 | 0.52 | 0.17 | 205 | 52 |
| CHRTLM2075 | 2/0 | 75 (reel) | 0.19 | 0.73 | 0.28 | 520 | 25 |
| CHRTLM203C | 2/0 | 300 (pail) | 0.19 | 0.73 | 0.28 | 520 | 102 |

## COIL CHAIN • ELECTRO GALVANIZED

Coil Chain has longer links than machine chain. It is an electrically welded chain for light duty, general utility service. Uses include animal tie chains, platform guard, tailgate & agricultural implements. Can be assembled with any standard chain attachment such as: hooks, snaps, rings, eyebolts, S-hooks.

- Low Carbon Steel
- Bright Zinc finish (Electro. Galv)
- Other finishes available on special order

**STRAIGHT LINK**

| Part # | Chain Size | Length (ft) | Dia. (in) | Inside Length (in) | Inside Width (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| CHRSLC2125 | #2 | 125 (reel) | 0.15 | 1.18 | 0.26 | 310 | 20 |
| CHRSLC20125 | 2/0 | 125 (reel) | 0.19 | 1.26 | 0.34 | 520 | 33 |
| CHRSLC401C | 4/0 | 100 (box) | 0.22 | 1.39 | 0.38 | 670 | 45 |
| CHRSLC40125 | 4/0 | 125 (reel) | 0.22 | 1.39 | 0.38 | 670 | 45 |

**TWIST LINK**

| Part # | Chain Size | Length (ft) | Dia. (in) | Inside Length (in) | Inside Width (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| CHRTLC101C | 1/0 | 100 (reel) | 0.18 | 1.22 | 0.27 | 415 | 23 |
| CHRTLC10350 | 1/0 | 350 (pail) | 0.18 | 1.22 | 0.27 | 415 | 82 |

## UTILITY LINK CHAIN • ELECTRO GALVANIZED

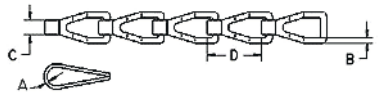
Bright Zinc finish. Used for farm, ranches, hauling & dragging.

| Part # | Chain Size (in) | Length (ft) | Dia. (in) | Inside Length (in) | Inside Width (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| CHRU1351C | 0.14 | 100 (reel) | 0.14 | 1.36 | 0.34 | 340 | 13 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# SASH & BALL CHAIN

## SASH CHAIN




**STAINLESS STEEL • TYPE 302**

| Part # | Chain Size | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt per 100 Ft (lb) |
|---|---|---|---|---|---|---|---|
| S06310001 | #35 | 0.04 | 0.08 | 0.17 | 0.57 | 225 | 7 |
| S06310002 | #25 | 0.04 | 0.06 | 0.24 | 0.57 | 200 | 5 |
| S06310003 | #8 | 0.04 | 0.06 | 0.24 | 0.57 | 150 | 4 |

Sash chain is a flat metal chain that is ideal for smooth operations over pulleys, lighting fixtures, novelties and is also suitable for many industrial applications.

- Other finishes available on special order
- Complies fully with all requirements of the U.S. National Associa-tion of Chain Manufacturers' (NACM'S) specifications

**BRIGHT ZINC & COPPER**

| Part # | Chain Size | Length/ Reel (ft) | Surface Finish | Dia. (in) | WLL (lb) | Wt per Reel (lb) |
|---|---|---|---|---|---|---|
| CHRSZ82C | #8 | 200 | Zinc | 0.04 | 75 | 8 |
| CHRSZ351C | #35 | 100 | Zinc | 0.04 | 106 | 6 |
| CHRSC82C | #8 | 200 | Copper | 0.04 | 75 | 8 |

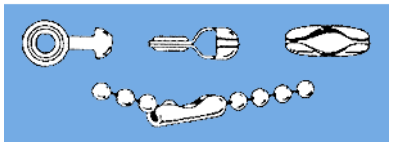
*** Copper available on special order, please allow 1-2 weeks for delivery**

## BRASS SAFETY CHAIN

| Part # | Chain Size | Length/ Reel (ft) | Surface Finish | Dia. (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| CHRSB102C | #1/0 | 200 | Bright Solid Brass | 0.02 | 35 | 3 |

Safety Chain, also known as Plumbers Chain, is a stamped, flat link pattern chain which is widely used for attaching plumbing fixtures for pulley service & for general utility. The finish is bright solid brass

## BALL CHAIN



| Part # | Chain Size | Length/ Reel (ft) | Metal Type |
|---|---|---|---|
| CHRBAB61C | #6 | 100 | Solid Brass |
| CHRBABP61C | #6 | 100 | Brass Plated |
| CHRBABP81C | #8 | 100 | Brass Plated |
| CHRBABP101C | #10 | 100 | Brass Plated |
| CHRBAN61C | #6 | 100 | Nickle Plated |
| CHRBAN81C | #8 | 100 | Nickle Plated |
| CHRBAN101C | #10 | 100 | Nickle Plated |
| CHRBAS6250 | #6 | 250 | Stainless Steel |
| CHRBAS8250 | #8 | 250 | Stainless Steel |
| CHRBAS10250 | #10 | 250 | Stainless Steel |

Ball chain is strong, light weight, and because it swivels, will not tangle or kink. Ball chain can be used in a wide variety of applications, some including vertical blinds, window treatments, displays, identification tags, plumbing, fishing tackle & jewelry. Call for special sizes, lengths, couplings & connectors.

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# DECORATORS CHAIN

## PLASTIC CHAIN

Plastic Chain has many popular applications including uses for theater and movie props, crowd control, trade show exhibits, canine & equestrian shows, and hanging bird cage toys. Plastic chain is also useful around the farm and ranch, for closing gates, leads, & dog collars. It is light weight, won't rust & available in several colors.

| Part # | Chain Size (in) | Length (ft) |
|---|---|---|
| CHRP345C | 3/4 (3 mm) | 500 |
| CHRP1250 | 1 (4 mm) | 250 |
| CHRP15125 | 1-1/2 (6 mm) | 125 |
| CHRP250 | 2 (8 mm) | 50 |
| CHRP330 | 3 (10 mm) | 30 |

| Available Colors |
|---|
| Black |
| White |
| Blue |
| Green |
| Orange |
| Pink |
| Punch |
| Red |
| Yellow |

## DECORATORS CHAIN

A lightweight steel decorative chain for hanging lamps, flower pots or tying back drapes. Decorators Chain is available in several finishes.

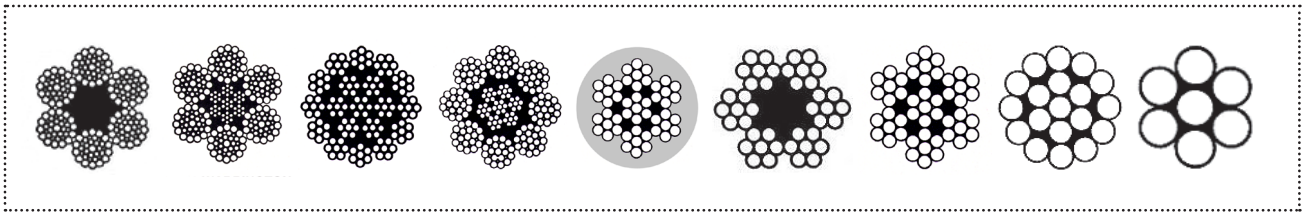
| Part # | Chain Size | Length/ Reel (ft) | Surface Finish | Dia. (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| CHRDCBB1150 | 11 GA | 50 | Polished Brass | 0.12 | 45 | 5 |
| CHRDCAB1150 | 11 GA | 50 | Antique Brass | 0.12 | 45 | 5 |
| CHRDCB1150 | 11 GA | 50 | Black | 0.12 | 45 | 5 |
| CHRDCW1150 | 11 GA | 50 | White | 0.12 | 45 | 5 |
| CHRDCAW1150 | 11 GA | 50 | Antique White | 0.12 | 45 | 5 |
| CHRDCC1150 | 11 GA | 50 | Copper | 0.12 | 45 | 5 |
| CHRDCAC1150 | 11 GA | 50 | Antique Copper | 0.12 | 45 | 5 |
| CHRDCY1150 | 11 GA | 50 | Yellow | 0.12 | 45 | 5 |
| CHRDCZ1150 | 11 GA | 50 | Zinc | 0.12 | 45 | 5 |

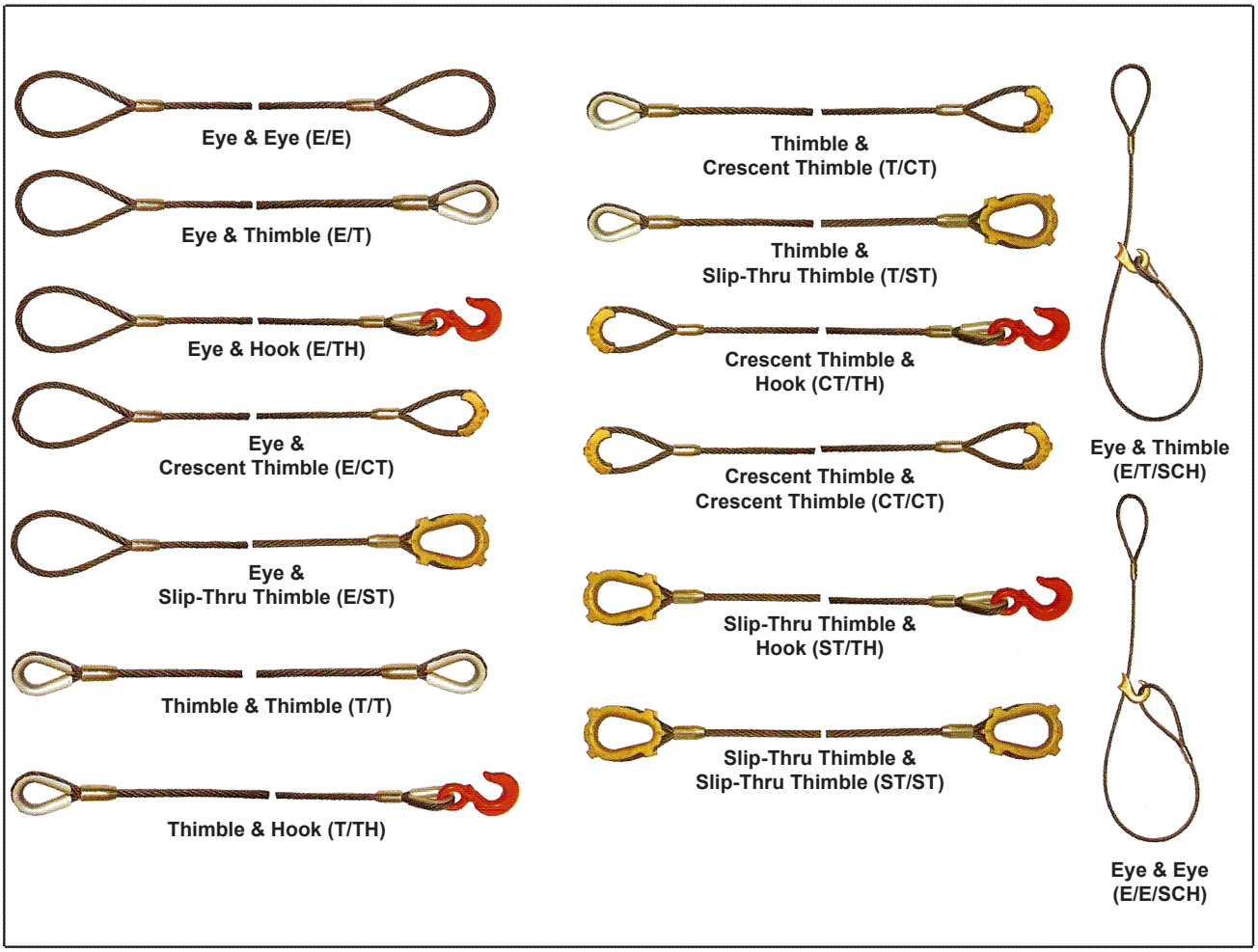
**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# WIRE ROPE & CABLE



**Miami Cordage, Florida Wire & Rigging Works has been custom fabricating wire rope slings and bridles for every application for our clients since 1956. Our rigging shop stocks a wide range of standard slings and we custom fabricate wire rope slings in a variety of configurations and sizes. Our wire rope slings are available in one, two, three and four legged bridles with soft or thimble eyes and we stock a large inventory of rigging hardware.**



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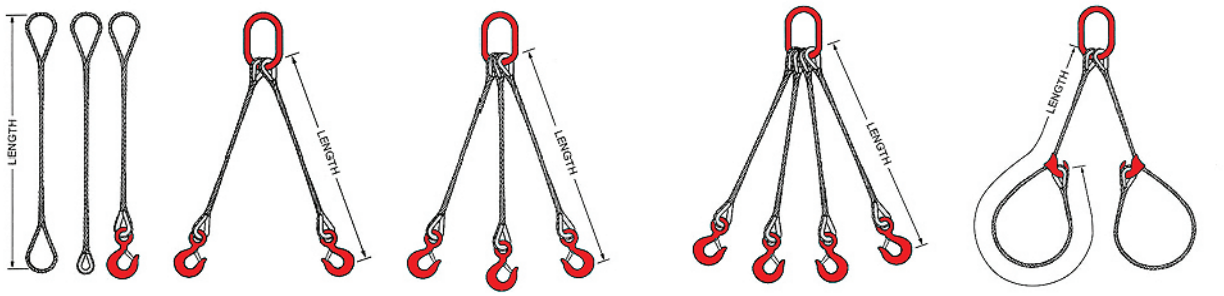



## ⚠ WARNING!!

**FAILURE TO FOLLOW WARNINGS & INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH**

Refer to warnings on pages 4-6, these warnings are applicable to wire rope and cable as well. Also, please refer to Appendix A for additional safety tips and warnings about slings. Additional warnings and information are listed below.

- **WIRE ROPE IS A MACHINE, UNDERSTAND AND RESPECT IT**
  Like any machine, it needs proper care and maintenance for optimal safety and long service life. For a better understanding of wire rope we highly recommend the Wire Rope Users Manual by the Wire Rope Technical Board. Wire Rope Technical Board 801 North Fairfax Street, Suite 211, Alexandria VA 22314-1757. Phone: (703) 299-8550 Fax:(703) 299-9253.

- **RATED CAPACITY**
  Rated capacity is the load which a new wire rope may handle under given operating conditions and at assumed design factor. A design factor of 5 is chosen most frequently for wire rope. (Operating loads not to exceed 20% of catalog Breaking Strength.) Operating loads may have to be reduced when life, limb or valuable property are at risk or other than new rope is used. A design factor of 10 is usually chosen when wire rope is used to carry personnel. (Operating loads not to exceed 10% of catalog Breaking Strength.)
  Responsibility for choosing a design factor rests with the user.

- **ATTACHMENTS MUST HAVE AT LEAST THE SAME WORKING LOAD LIMIT AS THE WIRE ROPE USED**
  Clips, sockets, thimbles, sleeves, hooks, links, shackles, sheaves, blocks, etc. must match in size, material and strength to provide adequate safety protection. Proper installation is crucial for maximum efficiency and safety.

- **KEEP OUT FROM UNDER A RAISED LOAD**
  Do not operate load over people. Do not ride on load. Conduct all lifting operations in such a manner that if equipment were to fai l o r break, no per s o n n e l w o u l d be inj u r e d . This means: **KEEP OUT FROM UNDER A RAISED LOAD, DO NOT OPERATE LOADS OVER PEOPLE AND KEEP OUT OF THE LINE OF FORCE OF ANY LOAD.**

- **AVOID SHOCK LOADS**
  Avoid impacting, jerking or swinging of load. Working Load limit will not apply in these circumstances because a shock load is generally significantly greater than the static load.

- **INSPECT WIRE ROPE REGULARLY**
  Use inspection instructions as guidelines only. Additional technical information on wire rope inspection can be obtained from the sources listed under **ADDITIONAL REFERENCE MATERIAL** on page 6. Two of the most important prerequisites for inspecting wire rope are technical knowledge and experience.

  Check the general condition of the wire rope. Also, look for localized damage and wear, especially at wire rope attachments. Inspect all parts that come in contact with the wire rope. Poor performance of wire rope can often be traced back to worn or wrong-sized sheaves, drums, rollers, etc. Look for kinks, broken wires, abrasions, lack of lubrication, rust damage, crushing, reduction of diameter, stretch or other obvious damage. If any of these conditions exists or if there is any other apparent damage to the wire rope, retire the wire rope according to the instructions below.

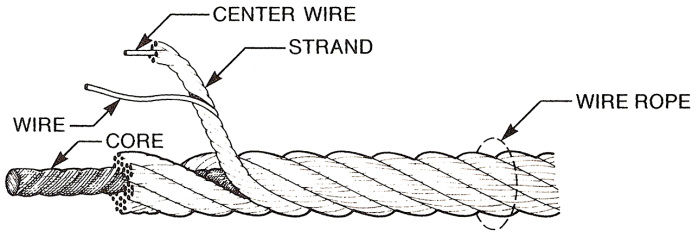
  When in doubt about the extent of the damage, retire the wire rope in question immediately. Without laboratory analysis, it is impossible to determine the strength of damaged or used wire. Thus, you will not be able to tell whether wire rope with any amount of damage is safe to use. Retire the wire rope that is damaged. For specific inspection procedures check various OSHA and ANSI publications.

- **DESTROY, RATHER THAN DISCARD, WIRE ROPE TO BE RETIRED**
  Wire rope that is not destroyed might be used again by someone not aware of the hazard associated with that use. Destroying wire rope is best done by cutting it up into short pieces.

# GENERAL INFORMATION ON WIRE ROPE

The three basic components of a typical wire rope.

(Fiber core is shown)




- **COMPONENTS,** wire rope consists of three basic components:
  1. Wires
  2. Strands, formed by wires, laid helically around a core
  3. Core, or center

- **MATERIAL:** Steel grades in wide use today are IPS (Improved Plow Steel), EIPS (Extra Improved Plow Steel), sometimes also referred to as XIPS, XIP, or EIP, as well as EEIPS (Extra, Extra Improved Plow Steel).

- **CORE:** Its function is to provide proper support for the strands under normal conditions. Three types of core (or center) are commonly used.
  1. Fiber Core (FC), usually polypropylene (PC), sometimes hemp (HC) and sisal
  2. Independent Wire Rope Core (IWRC)
  3. Wire Strand Core (WSC)

  IWRC and WSC are sometimes referred to as steel wire core or steel center.

• **CONSTRUCTION:** Expressed in numbers of strands x number of wires. 6 x 25 indicates that the wire rope consists of 6 strands, which in turn have 25 individual wires. Constructions are grouped into classes:

**6 x 7 Class:** Containing 6 strands that are made up of 3 through 14 wires, of which no more than 9 are outside wires.
**6 x 19Class:** Containing 6 strands that are made up of 15 through 26 wires, of which no more than 12 are outside wires.
**6 x 37 Class:** Containing 6 strands that are made up of 27 through 49 wires, of which no more than 18 are outside wires.
**8 x 19 Class:** Containing 8 strands that are made up of 15 through 26 wires, of which no more than 12 are outside wires.
**19 x 7 Class:** Containing 19 strands, each of which is made up of 7 wires.
**7 x 7, 7 x 19:** Sometimes referred to as “aircraft cable” but not intended for aircraft use.
**1 x 7, 1 x 19:** Also known as stand, containing 1 strand that is made up of 7 or 10 wires.
**7 x 7 x 7, 7 x 7 x 19:** Cable Laid constructed of smaller diameter cables which have been closed into a finished wire rope

8 x 19 and 19 x 7 class wire ropes have rotation-resistant properties, excluding elevator ropes.

Many others types of wire rope constructions exist, some for highly specialized applications only. Note that any class denotes the nominal number of wires in each strand. The actual number of wires may be different. For example 6 x 36 class: strands most commonly consist of 36 wires, or 31, or 41.

**SPECIALTY WIRE ROPES:** Florida Wire & Rigging Works also carries many ropes designed for specific applications such as the following:

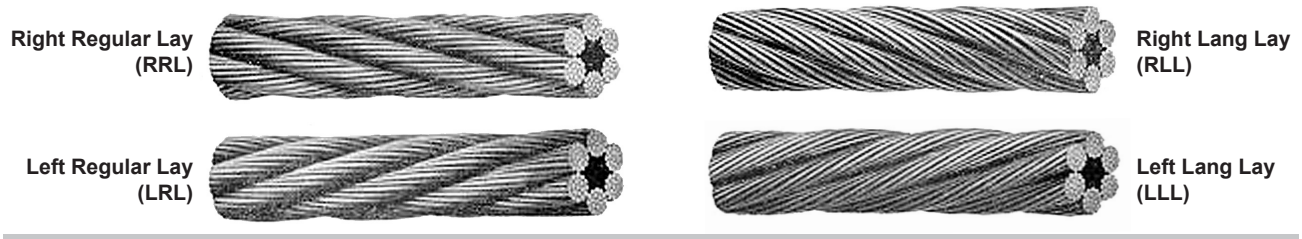
**ELEVATOR WIRE:** Elevator wire is available in traction steel and extra high strength, in 6 X 19 or 8 X 19 construction. Elevator wire rope is constructed to withstand the continuous bending and abrasive conditions of elevators, with extra high strength for modern, high speed elevators. The type of wire is designated be the elevator manufacturer.

**ALTERNATE LAY:** In alternate lay wire rope there are alternating land and regular lay strands. The use is somewhat limited, the advantages are distortion resistance and preventing clamp slippage. Another available variation is made with two lang strands alternating with one regular strand.

**AIRCRAFT CABLE:** Small cables ranging from 1/64” to 3/8” (not all constructions ar available in every size) for a variety of uses - boat rigging, control cables, guys, etc., are available in 1 X 7, 1 X 19, 7 X 19, and 7 X & constructions. Aifrcraft cable can be supplied in galvanized finish or stainless steel. All aircraft cable supplied by Florida Wire & Rigging Works meets or exceeds current federal and MIL specifications. Aircraft cable is also available with plasic and vinyl coatings for certain applications.

- **STRAND PATTERNS:** They refer to different types of arrangements of wires and their diameters within a strand. Common strand patterns are Filler Wire, Seale, Warrington and combinations thereof.

- **LAY:** indicates how the wires have been laid to form strands and how the strands have been laid around the core. A right regular lay rope (RRL and the most common) has its strands laid right on the rope - similar to threading a right-hand threaded bolt. Regular means that the direction of the wire lay in the strand is opposite to the direction of the strand lay in the rope. (The wires in regular lay rope appear to be in line with the axis of the rope).




**CAUTION: When combining separate ropes in a single line application always use ropes of the same lay pattern. Different lays can increase rotation at connection points decreasing rope efficiency.**

- **PREFORMING:** A manufacturing process wherein the strands and their wires are permanently formed - during fabrication - to the helical shape that they will ultimately assume in the finished wire rope. Proper preforming prevents the strands and wires from unlaying during normal use. The vast majority of wire rope sold today is preformed.

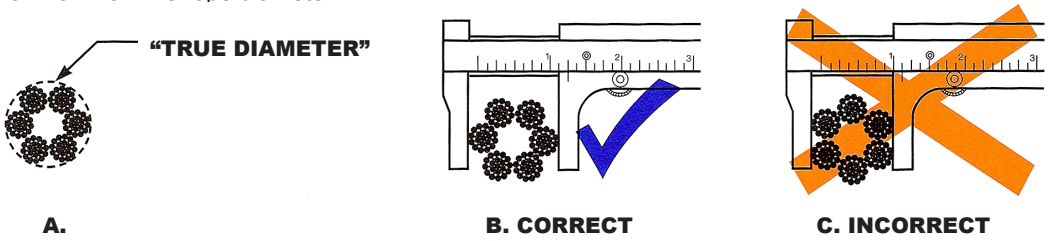
- **FINISH:** Wire rope is either sold as “bright” (or “black”) - meaning uncoated, or galvanized for better corrosion resistance. “Drawn Galvanized” wire has the same strength as bright wire, but wire, “galvanized at finished size” is usually 10% lower in strength. Plastic coated wire rope is also available, usually galvanized or stainless steel cable. The most common plastic coatings are vinyl or nylon in either clear or white, although other materials and colors are available. These coatings do not add strength to the wire rope itself.

- **LUBRICATION:** During fabrication, wire ropes receive lubrication. The kind and amount depends on the rope’s size, type and use, if known. This in-process treatment will provide the finished wire rope with ample protection for a reasonable time if it is stored under proper conditions. But, when the wire rope is put into service, the initial lubrication will normally be less than needed for the full useful life of the wire rope. Because of this, periodic applications of a suitable wire rope lubricant are necessary.

- **ORDERING WIRE ROPE:** Construction, lay, core, finish and other factors mentioned above impart greatly differing characteristics to different wire ropes. They must be understood and considered when selecting wire rope. There is no perfect wire rope for all applications; usually some less desirable properties are traded off for other, more desirable ones. Refer to the Wire Rope Users Manual by the Wire Rope Technical Board for a better understanding of wire rope properties and consult professional help when in doubt.

  Lacking a complete description of the wire rope desired, a supplier can make several assumptions:
  1. If direction and type of lay are omitted from the rope description, it is assumed to be right regular lay (RRL).
  2. If finish is omitted, this will be presumed to mean ungalvanized, “bright” finish.
  3. If no mention is made with reference to preforming, preformed wire rope will be supplied.
  4. If a supplier receives an order for 6 x 19 wire rope he may assume this to be a class reference and is, therefore, legally justified in furnishing any construction within this category.

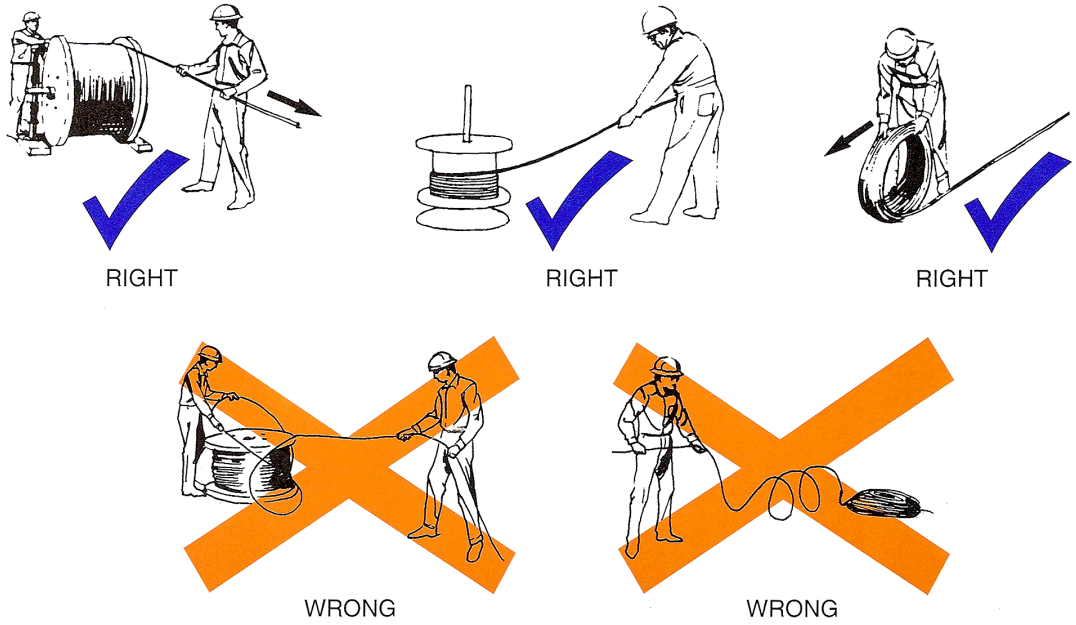
- **MEASURING OF WIRE ROPE:** How to measure (or caliper) a wire rope correctly. Since the “true” diameter (A) lies within the circumscribed circle, always measure the larger dimension (B). Actual diameter can be 5% larger than nominal wire rope diameter.



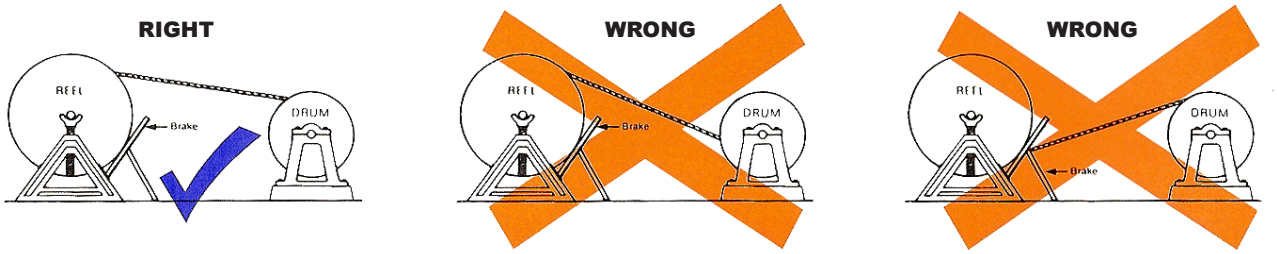

- **RECEIVING AND STORING WIRE ROPE:** Make certain that the wire rope received is the one that was ordered. Check for obvious damage to wire rope and reel. Store wire rope away from heat, moisture and other corrosive agents. This means storing under a weatherproof cover, off the ground, preferably in a dry, cool, well ventilated warehouse. If wire rope has to be kept outdoors, cover it with a coating of protective wire rope lubricant and cover both wire rope and reel with waterproof material. Keep it well off the ground. Careful inspection after extended storage is of utmost importance.

- **UNREELING OR UNCOILING WIRE ROPE:** Great care must be taken when removing wire rope from reels or coils. Looping the rope over the flange of the reel or pulling the rope off a coil while it is lying on the ground will create loops in the line. If these loops are pulled tight, kinks will result, thereby permanently damaging the wire rope. Check illustrations below showing correct and incorrect ways of unreeling and uncoiling wire rope.

  Whenever handling wire rope, take care not to drop reels or coils. This can damage wire rope and collapse the reel, making removal of the wire rope extremely difficult if not impossible.




- **REREELING WIRE ROPE:** When reeling wire rope from one reel to another it is preferable for the wire rope to travel from top to top, as illustrated. Spooling from bottom to bottom is also acceptable, provided the surface over which the wire rope will travel is clean, smooth and dry, so as not to allow foreign particles to become embedded in the wire rope. Spooling from top to bottom or from bottom to top can put a reverse bend into wire rope and must be avoided. When stringing up on machinery wire rope should be removed from the reel in the same direction as placed on the drum.




- **CUTTING & SEIZING WIRE ROPE:** There are numerous ways to cut wire rope - use only appropriate tools specifically designed to cut wire rope. Safety goggles and work gloves must always be worn. Observe other precautions peculiar to the tools used. Wire rope should be properly seized on both sides of the cut with wire or strand. Seizing wire diameter and the number and length of the seizings will depend on the diameter of the wire rope, and whether or not it is preformed.

- **BREAKING IN NEW WIRE ROPE:** Since wire rope is a machine with many moving parts, it requires careful installation and breaking in procedures for maximum safety and long service life. After proper installation, allow the wire rope to run through a cycle of operation at a very low speed. Keep a close watch on the wire rope, its attachments and any working parts such as sheaves, drums, rollers, etc. to make certain that the wire rope runs freely. If no problems appear at this stage, run the wire rope through several cycles of operation under light load at reduced speed. This procedure allows the component parts of the new rope to make a gradual adjustment to the actual operating conditions.

- **WIRE ROPE EFFICIENCY:** Wire rope will develop 100% efficiency, that is, break at or above minimum acceptance strength (not less than 2 1/2% below nominal breaking strength) under controlled laboratory conditions. Once fittings such as sleeves, clips, sockets, etc. are attached and/or the wire rope passes over a curved surface such as sheaves, pins, etc. its strength is decreased. In the case of wire rope passing over a curved surface this decrease in strength depends on the severity of the bend. In the case of wire rope fittings, the decrease in wire rope strength will depend on the type of fittings used. The wire rope efficiency usually ranges from 70% - 100%. Note, that hand spliced wire rope, while not using any fittings, has less efficiency than properly flemished and swaged wire rope. There are other factors, depending on the application of wire rope, that can cause a decrease in nominal wire rope strength. They must be considered when choosing a design factor. Refer to the Wire Rope Users Manual and/or other qualified sources for details.

- **ELASTIC PROPERTIES OF WIRE ROPE:** Wire rope is an elastic member; it stretches or elongates under load. This elongation can be permanent or recoverable. The extent of elongation will depend on the wire rope used and the design factor chosen. While it may be acceptable for many wire rope uses to neglect its elastic properties, they are of critical importance for some uses. When in doubt about the importance of wire rope elongation consult professional help. Pre-stretching wire rope will only remove some of the constructional stretch and will not totally eliminate elongation under load.

- **WINDING WIRE ROPE ON DRUMS:** Installation of wire rope on a plain or grooved drum requires a great deal of care. Make certain the wire rope is properly attached to the drum. Keep adequate tension on the wire rope as it is wound onto the drum. Guide each wrap as close to the preceding wrap as possible, or follow the groove in case of a grooved drum. No blanket recommendations can be given concerning direction of winding, desirable drum diameter, fleet angle, etc. Consult the Wire Rope Users Manual for this and other important technical information.

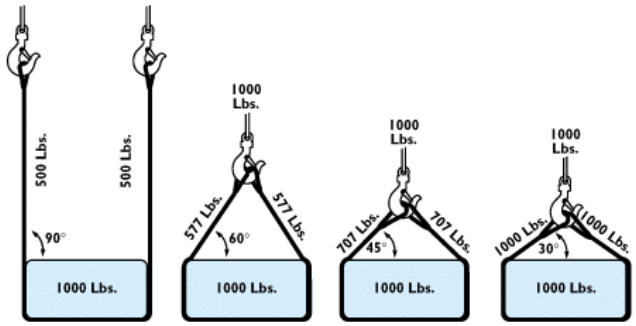
- **WIRE ROPE SLINGS:** Refer to ASME standard B30.9 and OSHA standard 1910.184 for design factors and other important inform=ation. Other standards and information may apply.

# BASIC FACTORS CONCERNING USE OF WIRE ROPE SLINGS

1. Rated load (rated capacity) of a wire rope sling is based upon the nominal, or catalog, strength of the wire rope used in the sling. And factors which affect the overall strength of the sling. These factors include attachment or splicing efficiency, the number of parts of rope in the sling, type of hitch (e.g. Straight pull, choker hitch, basket hitch), diameter around which the body of the sling is bent, and the diameter of pin (or hook) over which the eye of the sling is rigged.
2. Rated load of a sling is different for each of the three basic methods of rigging (see graphic above.) These rated loads are available from us and are indicated on the tag attached to the sling at the time it is fabricated (if requested by the user).
3. Warning: a hand-tucked eye splice can unlay (unravel) and fail if the sling is allowed to rotate during use.
4. Never "shock load " a sling. There is no practical way to estimate the actual force applied by shock loading. The rated load of a wire rope sling can easily be exceed by a sudden application of a force, and damage can occur to the sling. The sudden release of a load can also damage a sling.
5. The body of a wire rope sling should be protected with corner protectors, blocking or padding against damage by sharp edges or corners of a load being lifted. Sharp bends that distort the sling body damage the wire rope and reduce its strength.
6. Any angle other than vertical at which a sling is rigged increases the loading on the sling.
7. A sling should be given a visual inspection before each lift or usage to determine if it is capable of safely making the intended lift. An inspection should include looking for such things as:
   - Broken wires, corrosion or any damage
   - Kinks or distortions of the the sling body
   - Condition of eyes and splices, and any attached hardware
   - Reduction in diameter of the rope
8. Whenever a sling is found to be deficient, the eyes must be cut, or other end attachments or fittings removed to prevent further use, and the sling body discarded.
9. A sling eye should never be used over a hook or pin with a body diameter larger than the natural width of the eye.

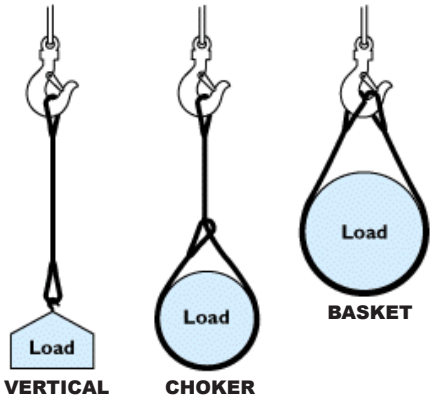
Never force an eye onto a hook. The eye should always be used on a hook or pin with at least the diameter of the rope.

## SLING ANGLES AFFECT THE LOAD ON THE LEGS OF A SLING




Sling angle or angle of loading is the angle measure between a horizontal line and the sling leg or body. This angle is very important and can have a dramatic effect on the rated load of the sling. As illustrated here, when this angle decreases, the load on each leg increases. This principle applies whether one sling is used with legs at an angle in a basket hitch, or for multi-leg bridle slings. Horizontal sling angles of less than 30 degrees shall not be used.

## EVERY LIFT USES 1 OF 3 BASIC HITCHES



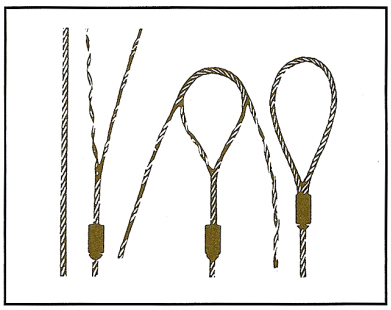

**VERTICAL**: or straight, attachment is simply using a sling to connect a lifting hook or other device to a load. Full rated load of the sling may be used, but never exceeded. A tagline should be used on such a lift to prevent rotation which can damage the sling. A sling with a hand tucked splice can unlay and fail if the sling is allowed to rotate.

**CHOKER:** hitches reduce lifting capability of a sling, since this method of rigging affects the ability of the wire rope components to adjust during the lift, places angular loading on the body of the sling, and creates a small diameter bend in the sling body at the choke point.

**BASKET:** hitches distribute a load equally between the two legs of a sling, within limitations imposed by the angles at which legs are rigged to the load. ( See discussion of sling angles below.

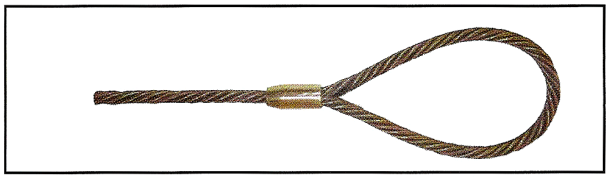
## FLEMISH EYE WIRE ROPE SLINGS

We can make your slings using the flemish splice technique to form the eyes. Unlike the simple return loop method that places 100% of its strength on the swaged sleeve, Flemish spliced slings have reserve strength incase the sleeve becomes damaged in use.



**Features of our wire rope slings:**

- Reserve strength, integrity of eyes not solely dependent upon steel sleeves
- IWRC resists crushing better than FC ropes
- Thimble eyes protect wire rope from wear for increased life
- Good abrasion resistance for longer life



**Mechanically swaged, Flemish eye splice wire rope slings**

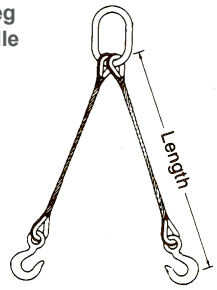
| Wire Rope Class | Rated Capacity (tons) | | | | Min. Sling Length when using Standard Eye | Standard Eye Size W x L (in) | Thimbled Eye Size W x L (in) | Eye Hook Cap. W x L (in) | Crescent Thimble Eye Size W x L (in) | Slip Thru Thimble Eye Size W x L (in) | Sliding Choker W x L (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Rope Dia. (in) | Vertical | Choker | Basket | | | | | | | |
| 6 x 19 IWRC IPS | 1/4 | 0.65 | 0.48 | 1.30 | 1' 6" | 2 x 4 | 7/8 x 1-5/8 | 1 | 2 x 4 | 2-1/8 x 4-1/8 | 3/8 |
| | 5/16 | 1.00 | 0.74 | 2.00 | 1' 9" | 2-1/2 x 5 | 1-1/16 x 1-7/8 | 1 | 2 x 4 | 2-1/8 x 4-1/8 | 3/8 |
| | 3/8 | 1.40 | 1.10 | 2.90 | 2' 0" | 3 x 6 | 1-1/8 x 2-1/8 | 1-1/2 | 2 x 4 | 2-1/8 x 4-1/8 | 3/8 |
| | 7/16 | 1.90 | 1.40 | 3.90 | 2' 3" | 3 1/2 x 7 | 1-1/4 x 2-1/4 | 2 | 2 x 5 | 2-3/8 x 4-3/8 | 1/2 |
| | 1/2 | 2.50 | 1.90 | 5.10 | 2' 6" | 4 x 8 | 1-1/2 x 2-3/4 | 3 | 2-1/4 x 6 | 2-3/8 x 4-3/8 | 1/2 |
| | 9/16 | 3.20 | 2.40 | 6.40 | 2' 9" | 4 1/2 x 9 | 1-1/2 x 2-3/4 | 4-1/2 | 2-1/4 x 7 | 2-3/8 x 4-3/8 | 5/8 |
| | 5/8 | 3.90 | 2.90 | 7.80 | 3' 0" | 5 x 10 | 1-3/4 x 3-1/4 | 4-1/2 | 2-3/4 x 7 | 3-3/8 x 6-5/8 | 5/8 |
| | 3/4 | 5.60 | 4.10 | 11.00 | 3' 6" | 6 x 12 | 2 x 3-3/4 | 7 | 3-1/4 x 8-1/2 | 3-3/8 x 6-5/8 | 3/4 |
| | 7/8 | 7.60 | 5.60 | 15.00 | 4' 0" | 7 x 14 | 2-1/4 x 4-1/4 | 11 | 4-1/2 x 10 | 3-3/4 x 7-1/8 | 7/8 |
| | 1 | 9.80 | 7.20 | 20.00 | 4' 6" | 8 x 16 | 2-1/2 x 4-1/2 | 11 | 4-1/2 x 11-1/2 | 3-3/4 x 7-1/8 | 1 |
| | 1-1/8 | 12.00 | 9.10 | 24.00 | 5' 0" | 9 x 18 | 2-7/8 x 5-1/8 | 15 | 4-7/8 x 13 | 4-3/8 x 8-3/8 | 1-1/8 |
| 6 x 37 IWRC IPS | 1-1/4 | 15.00 | 11.00 | 30.00 | 5' 6" | 10 x 20 | 3-1/2 x 6-1/2 | 15 | 5-1/2 x 14-1/2 | 4-3/8 x 8-3/8 | 1-1/4 |
| | 1-3/8 | 18.00 | 13.00 | 36.00 | 6' 0" | 11 x 22 | 3-1/2 x 6-1/4 | 22 | 6 x 16 | 5 x 9-1/2 | 1-3/8 |
| | 1-1/2 | 21.00 | 16.00 | 42.00 | 7' 0" | 12 x 24 | 3-1/2 x 6-1/4 | 22 | 6 x 17-1/2 | 5 x 9-1/2 | 1-1/2 |
| | 1-3/4 | 28.00 | 21.00 | 57.00 | 8' 0" | 14 x 28 | 4-1/2 x 9 | 30 | 7 x 20 | 6-3/4 x 11-3/4 | - |
| | 2 | 37.00 | 28.00 | 73.00 | 9' 0" | 16 x 32 | 6 x 12 | 37 | 7 x 23-1/2 | 8 x 14-1/2 | - |
| | 2-1/4 | 44.00 | 35.00 | 89.00 | 10' 0" | 18 x 36 | 7 x 14 | 45 | 8-1/2 x 26 | 8x 15-1/2 | - |
| | 2-1/2 | 54.00 | 42.00 | 109.00 | 11' 0" | 20 x 40 | - | - | 8-1/2 x 29-1/2 | - | - |

## BRIDLE SLINGS

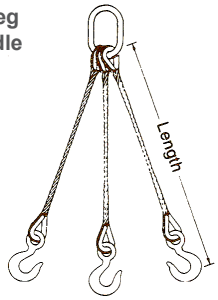
- Bridles provide better load control and balance
- Independent wire rope core resists crushing
- Alloy steel hooks and linkds assure long life
- Thimble eyes protect wire rope from wear for increased life
- Reduces load damage by using fixed points on load
- Easier rigging provided when hooking into fixed lifting points

**Bridle Slings (With Single Part Body)**

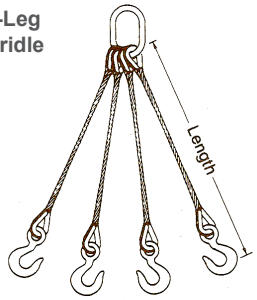
2-Leg Bridle




3-Leg Bridle




4-Leg Bridle




| | Rope Dia. (in) | Min. Sling Length Based on Thimbled Eye & Eye Hook | Eye Hook Cap. (tons) | Rated Capacity (tons) 60° | 45° | 30° | Oblong Link Stock Dia. | Rated Capacity (tons) 60° | 45° | 30° | Oblong Link Stock Dia. | Rated Capacity (tons) 60° | 45° | 30° | Oblong Link Stock Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 x 19 EIP, IWRC | 1/4 | 1' 3" | 1.00 | 1.10 | 0.91 | 0.65 | 0.50 | 1.70 | 1.40 | 0.97 | 0.50 | 2.20 | 1.80 | 1.30 | 0.50 |
| | 5/16 | 1' 6" | 1.00 | 1.70 | 1.40 | 1.00 | 0.50 | 2.60 | 2.10 | 1.50 | 0.50 | 3.50 | 2.80 | 2.00 | 0.75 |
| | 3/8 | 1' 8" | 1.50 | 2.50 | 2.00 | 1.40 | 0.50 | 3.70 | 3.00 | 2.20 | 0.75 | 5.00 | 4.10 | 2.90 | 0.75 |
| | 7/16 | 1' 10" | 2.00 | 3.40 | 2.70 | 1.90 | 0.75 | 5.00 | 4.10 | 2.90 | 0.75 | 6.70 | 5.50 | 3.90 | 1.00 |
| | 1/2 | 2' | 3.00 | 4.40 | 3.60 | 2.50 | 0.75 | 6.60 | 5.40 | 3.80 | 1.00 | 8.80 | 7.10 | 5.10 | 1.00 |
| | 9/16 | 2' 2" | 4.50 | 5.50 | 4.50 | 3.20 | 0.75 | 8.30 | 6.80 | 4.80 | 1.00 | 11.00 | 9.00 | 6.40 | 1.25 |
| | 5/8 | 2' 4" | 4.50 | 6.80 | 5.50 | 3.90 | 1.00 | 10.00 | 8.30 | 5.90 | 1.25 | 14.00 | 11.00 | 7.80 | 1.50 |
| | 3/4 | 2' 9" | 7.00 | 9.70 | 7.90 | 5.60 | 1.25 | 15.00 | 12.00 | 8.40 | 1.50 | 19.00 | 16.00 | 11.00 | 1.75 |
| | 7/8 | 3' 3" | 11.00 | 13.00 | 11.00 | 7.60 | 1.25 | 20.00 | 16.00 | 11.00 | 1.50 | 26.00 | 21.00 | 15.00 | 2.00 |
| | 1 | 3' 6" | 11.00 | 17.00 | 14.00 | 9.80 | 1.50 | 26.00 | 21.00 | 15.00 | 1.75 | 34.00 | 28.00 | 20.00 | 2.25 |
| | 1-1/8 | 4' | 15.00 | 21.00 | 17.00 | 12.00 | 1.50 | 31.00 | 26.00 | 18.00 | 1.75 | 42.00 | 34.00 | 24.00 | 2.75 |
| 6 x 37 EIP, IWRC | 1-1/4 | 4' 6" | 15.00 | 26.00 | 21.00 | 15.00 | 1.75 | 38.00 | 31.00 | 22.00 | 2.00 | 51.00 | 42.00 | 30.00 | 2.75 |
| | 1-3/8 | 5' | 22.00 | 31.00 | 25.00 | 18.00 | 1.75 | 46.00 | 38.00 | 27.00 | 2.25 | - | - | - | - |
| | 1-1/2 | 5' 6" | 22.00 | 37.00 | 30.00 | 21.00 | 2.00 | 55.00 | 45.00 | 32.00 | 2.25 | - | - | - | - |
| | 1-3/4 | 6' 6" | 30.00 | 49.00 | 40.00 | 28.00 | 2.25 | - | - | - | - | - | - | - | - |
| | 2 | 8' | 37.00 | 63.00 | 52.00 | 37.00 | 2.75 | - | - | - | - | - | - | - | - |

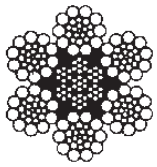
****Refer to Appendix A for additional information about slings.**

**⚠ WARNING: Breaking Strength is listed for comparison only. Actual operating loads may vary, but should never exceed recommended design factor (WLL), or 20% of catalog Breaking Strength. Please refer to warnings on pages 4-6.**

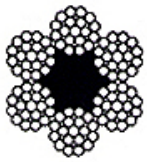
# GENERAL PURPOSE WIRE ROPE

## 6x19/37 Class Bright Wire Rope

6 x 19 classification wire ropes contain 6 strands with each strand consisting of 15-26 individual wires, no more than 12 of which are outside wires. These wire ropes provide an excellent balance between fatigue and wear resistance and are a very popular, general purpose rope that will give long service with drums and sheaves of moderate size. 6 x 19 classification wire ropes are also often used for hoists, boom hoists, winches, cranes, haulage ropes and slings.

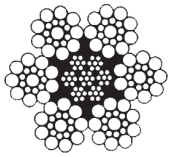


6x26WS IWRC



6x19 FC

6x25 Filler Wire IWRC

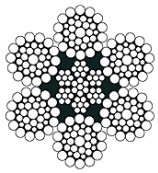


6x19 IWRC

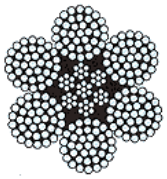
| Size (in) | Nominal Breaking Load (lbs) | | | | Appx Wt per 100 Ft (lbs) | |
|---|---|---|---|---|---|---|
| | I.P.S. | | E.I.P.S. | | | |
| | FC | IWRC | FC | IWRC | FC | IWRC |
| 1/4 | 5,480 | 5,880 | 6,040 | 6,880 | 1.50 | 1.16 |
| 5/16 | 8,520 | 9,160 | 9,380 | 10,540 | 16.40 | 18.00 |
| 3/8 | 12,200 | 13,120 | 13,420 | 15,100 | 23.60 | 26.00 |
| 7/16 | 16,540 | 17,780 | 18,180 | 20,400 | 32.00 | 35.00 |
| 1/2 | 21,400 | 23,000 | 23,600 | 26,600 | 42.00 | 46.00 |
| 9/16 | 27,000 | 29,000 | 29,800 | 33,600 | 53.00 | 59.00 |
| 5/8 | 33,400 | 35,800 | 36,600 | 41,200 | 66.00 | 72.00 |
| 3/4 | 47,600 | 51,200 | 52,400 | 58,800 | 95.00 | 104.00 |
| 7/8 | 64,400 | 69,200 | 70,800 | 79,600 | 129.00 | 142.00 |
| 1 | 83,600 | 89,800 | 92,000 | 103,400 | 168.00 | 185.00 |
| 1-1/8 | 105,200 | 113,000 | 115,800 | 130,000 | 213.00 | 234.00 |
| 1-1/4 | 129,200 | 138,800 | 142,000 | 159,800 | 263.00 | 289.00 |
| 1-3/8 | 155,400 | 167,000 | 170,800 | 192,000 | 318.00 | 350.00 |
| 1-1/2 | 184,000 | 197,800 | 202,000 | 228,000 | 378.00 | 416.00 |
| 1-5/8 | 214,000 | 230,000 | 236,000 | 264,000 | 444.00 | 488.00 |
| 1-3/4 | 248,000 | 266,000 | 272,000 | 306,000 | 515.00 | 567.00 |
| 1-7/8 | 282,000 | 304,000 | 310,000 | 348,000 | 591.00 | 650.00 |
| 2 | 320,000 | 344,000 | 352,000 | 396,000 | 672.00 | 739.00 |

## 6x19/37 Class Galvanized Wire Rope

The 6x37 class wire rope consits of 6 outer strands of 27-49 individual wires. These wire ropes have a third layer of wires which make them more flexible, although less abrasion resistant than the 6x19 class. As the number of wires in each strand increases, flexibility increases.



6x36 Seale Filler Wire IWRC



6x36 IWRC

| Size (in) | Nominal Breaking Load (lbs) | | | | Appx Wt per 100 Ft (lbs) | |
|---|---|---|---|---|---|---|
| | I.P.S. | | E.I.P.S. | | | |
| | FC | IWRC | FC | IWRC | FC | IWRC |
| 1/4 | 4,940 | 5,300 | 5,430 | 6,120 | 1.50 | 11.60 |
| 5/16 | 7,660 | 8,240 | 8,440 | 9,480 | 16.40 | 18.00 |
| 3/8 | 10,980 | 11,800 | 12,090 | 13,600 | 23.60 | 26.00 |
| 7/16 | 14,880 | 16,000 | 16,380 | 18,360 | 32.00 | 35.00 |
| 1/2 | 19,260 | 20,700 | 21,240 | 24,000 | 42.00 | 46.00 |
| 9/16 | 24,300 | 26,100 | 26,820 | 30,200 | 53.00 | 59.00 |
| 5/8 | 30,000 | 32,200 | 32,940 | 37,000 | 66.00 | 72.00 |
| 3/4 | 42,800 | 46,000 | 47,160 | 53,000 | 95.00 | 104.00 |
| 7/8 | 58,000 | 62,200 | 63,720 | 71,600 | 129.00 | 142.00 |
| 1 | 75,200 | 80,800 | 82,800 | 93,000 | 168.00 | 185.00 |
| 1-1/8 | 94,600 | 101,800 | 104,040 | 117,000 | 213.00 | 234.00 |
| 1-1/4 | 116,200 | 125,000 | 127,980 | 143,800 | 263.00 | 289.00 |
| 1-3/8 | 139,800 | 150,400 | 153,900 | 172,800 | 318.00 | 350.00 |
| 1-1/2 | 165,600 | 178,000 | 181,800 | 206,000 | 378.00 | 416.00 |
| 1-5/8 | 192,600 | 207,000 | 212,400 | 238,000 | 444.00 | 488.00 |
| 1-3/4 | 224,000 | 240,000 | 246,600 | 276,000 | 515.00 | 567.00 |
| 1-7/8 | 254,000 | 274,000 | 280,800 | 314,000 | 591.00 | 650.00 |
| 2 | 288,000 | 310,000 | 316,800 | 356,000 | 672.00 | 739.00 |

IPS - Improved Plow Steel
EIPS - Extra Improved Plow Steel
FC - Fiber Core
IWRC - Independant Wire Rope Core

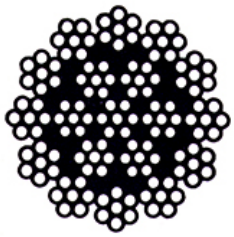
** All wire rope is manufactured in accordance with U.S. Federal Specification RR-W-410

# ROTATION RESISTANT WIRE ROPE



## 19X7 Non-Rotating Wire Rope

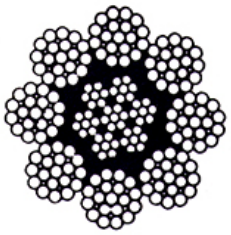
The 19x7 IWRC non-rotating wire rope class is designed to resist the tendency to spin or rotate under load. Used for general use where rotation resistance is crucial, a single sheave configurations should be used.



| Size (in) | Nominal Breaking Load (lbs) | | Appx Wt per 100 Ft (lbs) |
|---|---|---|---|
| | I.P.S | E.I.P.S | |
| 3/8 | 11,520 | 13,260 | 18.00 |
| 7/16 | 15,600 | 17,940 | 26.00 |
| 1/2 | 19,700 | 21,600 | 45.00 |
| 9/16 | 24,800 | 27,200 | 58.00 |
| 5/8 | 30,600 | 33,600 | 71.00 |
| 3/4 | 43,600 | 48,000 | 102.00 |
| 7/8 | 59,000 | 65,000 | 139.00 |
| 1 | 76,600 | 84,400 | 182.00 |
| 1-1/8 | 96,400 | 106,200 | 230.00 |
| 1-1/4 | 118,400 | 130,200 | 284.00 |
| 1-3/8 | 142,600 | 156,800 | 343.00 |
| 1-1/2 | 168,800 | 185,600 | 408.00 |

## 8x25 Rotation Resistant

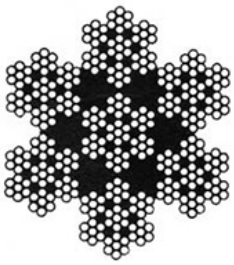
The 8x25 IWRC rotation resistant wire rope is designed to oppose rotational forces while under tension. This class of wire rope has increased resistance to bending fatigue and crushing, and is more stable than the 19x7 classification.



| Size (in) | Nominal Breaking Load (lbs) | | Apprx Wt per 100 Ft (lbs) |
|---|---|---|---|
| | I.P.S | E.I.P.S | |
| 3/8 | 11,520 | 13,260 | 26.00 |
| 7/16 | 15,600 | 17,940 | 36.00 |
| 1/2 | 20,200 | 23,200 | 47.00 |
| 9/16 | 25,600 | 29,400 | 60.00 |
| 5/8 | 31,400 | 36,200 | 73.00 |
| 3/4 | 45,000 | 51,800 | 106.00 |
| 7/8 | 61,000 | 70,000 | 144.00 |
| 1 | 79,200 | 91,000 | 188.00 |
| 1-1/8 | 99,600 | 114,600 | 239.00 |
| 1-1/4 | 112,600 | 141,000 | 294.00 |
| 1-3/8 | 147,600 | 169,800 | 356.00 |
| 1-1/2 | 174,600 | 200,000 | 424.00 |

## 7x7x7 Galvanized Cablelaid

The 7x7x7 cable laid wire rope is constructed of smaller diameter cables which have been closed into a finished wire rope. This class of wire rope is highly flexible and can be spliced easily into slings or other assemblies.

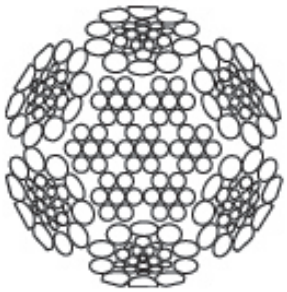


| Size (in) | Nominal Breaking Load (lbs) | | | Apprx Wt per 100 Ft (lbs) |
|---|---|---|---|---|
| | Grade A | Grade B | Grade C | |
| 5/16 | 6,490 | 7,080 | 7,670 | 13.50 |
| 3/8 | 9,350 | 10,200 | 11,100 | 19.50 |
| 7/16 | 12,900 | 14,100 | 15,200 | 27.30 |
| 1/2 | 16,400 | 17,900 | 19,400 | 34.60 |
| 9/16 | 21,100 | 23,000 | 24,900 | 44.60 |
| 5/8 | 26,500 | 28,900 | 31,300 | 55.80 |
| 3/4 | 37,300 | 40,700 | 44,100 | 78.60 |
| 7/8 | 51,800 | 56,500 | 61,200 | 109.30 |
| 1 | 66,600 | 72,600 | 78,700 | 140.50 |
| 1-1/8 | 84,200 | 91,900 | 99,500 | 178.10 |
| 1-1/4 | 105,600 | 115,200 | 124,800 | 223.00 |
| 1-3/8 | 126,300 | 137,800 | 149,300 | 266.80 |
| 1-1/2 | 148,800 | 162,300 | 175,900 | 314.50 |

# SWAGED & IMPACT SWAGED WIRE ROPE

## 6x26 IWRC Impact Swaged

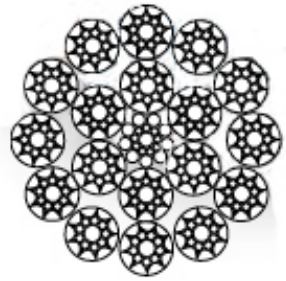
The 6x26 IWRC impact swaged wire rope class offers longer service, greater strength and flexibilty. This wire rope is resistant to drum crushing, pig tailing & kinking and has improved drum spooling.



| Size (in) | Nominal Breaking Load (lbs) | | Appx Wt per 100 Ft (lbs) |
|---|---|---|---|
| | I.P.S | E.I.P.S | |
| 1/2 | 34,000 | 36,800 | 62.00 |
| 9/16 | 43,200 | 46,700 | 79.00 |
| 5/8 | 54,100 | 58,400 | 97.00 |
| 3/4 | 76,200 | 82,400 | 140.00 |
| 7/8 | 104,000 | 110,000 | 191.00 |
| 1 | 136,000 | 144,000 | 249.00 |
| 1-1/8 | 165,000 | 176,000 | 316.00 |
| 1-1/4 | 206,500 | 220,000 | 390.00 |
| 1-1/2 | 168,800 | 185,600 | 408.00 |

## 19x19 IWRC Compacted

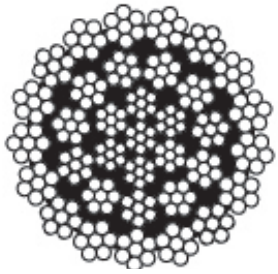
The 19x19 IWRC compacted wire rope class offers higher strength than standard ropes and greater durability. This wire rope is resistant to drum crushing and has a longer service life.



| Size (in) | Nominal Breaking Load (lbs) | | Appx Wt per 100 Ft (lbs) |
|---|---|---|---|
| | I.P.S | E.I.P.S | |
| 1/2 | 27,550 | 29,760 | 51.00 |
| 9/16 | 34,800 | 37,500 | 65.00 |
| 5/8 | 43,600 | 47,000 | 81.00 |
| 11/16 | 52,100 | 56,200 | 96.80 |
| 3/4 | 61,400 | 66,300 | 114.00 |
| 7/8 | 83,700 | 90,800 | 156.00 |
| 1 | 109,400 | 118,000 | 204.00 |
| 1-1/8 | 138,761 | 150,000 | 259.00 |
| 1-1/4 | 173,700 | 186,000 | 324.00 |

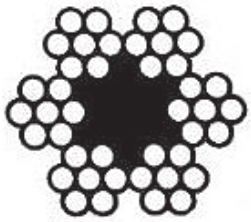
## 35x7 IWRC Swaged

The 35x7 IWRC swaged wire rope class offers higher strength than standard ropes and greater durability. This wire rope is resistant to drum crushing and has a longer service life.



| Size (mm) | Breaking Strength (lbs) |
|---|---|
| | 1960N/mm2 (E.E.I.P.S.) |
| 19 | 14,197 |
| 22 | 19,187 |
| 26 | 26,626 |
| 28 | 30,889 |
| 32 | 40,370 |

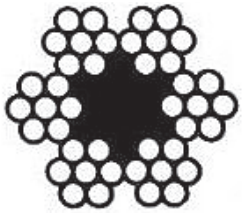
## 6x7 Sand Line
**Bright w/ Fiber Core**



The 6x7 class of wire rope has a large size of outer wires that provide excellent abrasion resistance to fatigue.

| Size (in) | Nominal Breaking Load (lbs) | Appx Wt per 100 Ft (lbs) |
|---|---|---|
| 1/4 | 5,280 | 9.00 |
| 5/16 | 8,200 | 15.00 |
| 3/8 | 11,720 | 21.00 |
| 7/16 | 15,860 | 29.00 |
| 1/2 | 20,600 | 38.00 |
| 9/16 | 26,000 | 48.00 |
| 5/8 | 31,800 | 59.00 |
| 3/4 | 45,400 | 84.00 |
| 7/8 | 61,400 | 115.00 |

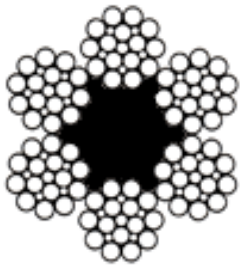
## 6x7 Trawl Line
**Bright w/ Fiber Core**



The 6x7 class of wire rope has a large size of outer wires that provide excellent abrasion resistance to fatigue.

| Size (in) | Nominal Breaking Load (lbs) | Appx Wt per 100 Ft (lbs) |
|---|---|---|
| 1/4 | 4,760 | 9.00 |
| 5/16 | 7,380 | 15.00 |
| 3/8 | 10,540 | 21.00 |
| 7/16 | 14,280 | 29.00 |
| 1/2 | 18,540 | 38.00 |
| 9/16 | 23,400 | 48.00 |
| 5/8 | 28,600 | 59.00 |
| 3/4 | 40,800 | 84.00 |
| 7/8 | 55,200 | 115.00 |

## 6x21 Drill Line
**Bright, Heavy Lube, Fiber Core**



The 6x21 class of wire rope is a high quality line used by the oil, gas and water well industries. This type of wire rope has excellent resistance to bending fatigue.

| Size (in) | Nominal Breaking Load (lbs) | Appx Wt per 100 Ft (lbs) |
|---|---|---|
| 3/8 | 12,200 | 24.00 |
| 7/16 | 16,540 | 32.00 |
| 1/2 | 21,400 | 42.00 |
| 9/16 | 27,000 | 53.00 |
| 5/8 | 33,400 | 66.00 |
| 3/4 | 47,600 | 95.00 |
| 7/8 | 64,400 | 129.00 |
| 1 | 83,600 | 168.00 |
| 1-1/8 | 105,200 | 213.00 |

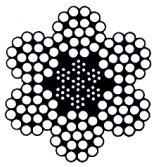
## 6x24 7HC Galvanized
**Mooring Line**

The 6x24 class of wire rope is galvanized and is used by large vessels as a mooring line.

| Size (in) | Nominal Breaking Load (lbs) | Appx Wt per 100 Ft (lbs) |
|---|---|---|
| 3/8 | 9,450 | 19.00 |
| 1/2 | 16,800 | 35.00 |
| 5/8 | 26,000 | 54.00 |
| 3/4 | 37,200 | 78.00 |
| 13/16 | 50,400 | 106.00 |
| 7/8 | 61,400 | 115.00 |
| 1 | 65,500 | 138.00 |
| 1-1/16 | 73,800 | 156.00 |
| 1-1/8 | 82,400 | 175.00 |

# STAINLESS STEEL WIRE ROPE

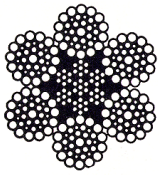
## 6x19 or 6x25 Filler Wire • with IWRC



Similar in construction to 6x19 class IWRC galvanized wire rope, stainless steel ropes are used for general purpose in corrosive environments and are resistant to abrasion & crushing.

| Size (in) | Nominal Breaking Load (lbs) | Appx Wt per 100 Ft (lbs) |
|---|---|---|
| 7/16 | 16,300 | 35.00 |
| 1/2 | 22,800 | 46.00 |
| 9/16 | 28,500 | 59.00 |
| 5/8 | 35,000 | 72.00 |
| 3/4 | 49,600 | 104.00 |
| 7/8 | 66,500 | 142.00 |
| 1 | 85,400 | 185.00 |

## 6x36 Wire Rope ·with IWRC



Similar in contruction to 6x36 class IWRC galvanized wire rope, stainless steel ropes are used for general purpose in corrosive environments, but with more flexibility that 6x19 class.

| Size (in) | Nominal Breaking Load (lbs) | Appx Wt per 100 Ft (lbs) |
|---|---|---|
| 7/16 | 16,300 | 35.00 |
| 1/2 | 22,800 | 46.00 |
| 9/16 | 28,500 | 59.00 |
| 5/8 | 35,000 | 72.00 |
| 3/4 | 49,600 | 104.00 |
| 7/8 | 66,500 | 142.00 |
| 1 | 85,400 | 185.00 |

## 1x7 Steel Strand Galvanized • Seizing Strand

1x7 Seizing strand is a soft annealed iron wire used to seize many things, such as cable ends, nuts, bolts, shackles and turnbuckles.

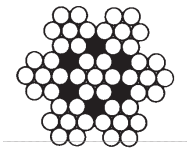
| Size (in) | Nominal Breaking Load (lbs) | Appx Wt per 100 Ft (lbs) |
|---|---|---|
| 1/16 | 140 | 10.00 |
| 3/32 | 300 | 20.00 |
| 1/8 | 530 | 33.00 |
| 5/32 | 810 | 50.00 |

## 1x7 Steel Strand Galvanized • Guy Strand

1x7 Guy strand is frequently used to hold a structure in position & has high strength. It is not intended for operation over sheaves or drums & should be used only where very infrequent flexing will occur.

| Size (in) | Nominal Breaking Load (lbs) | Appx Wt per 100 Ft (lbs) |
|---|---|---|
| 1/4 | 6,650 | 12.00 |
| 5/16 | 11,200 | 21.00 |
| 3/8 | 15,400 | 27.00 |
| 1/2 | 16,900 | 51.00 |

## 7x7 Bridge Rope Galvanized

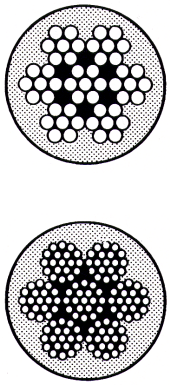


7x7 galvanized bridge wire rope is used where high strength and relative flexibility is required in a stationary structure/applications

| Size (in) | Nominal Breaking Load (lbs) | Appx Wt per 100 Ft (lbs) |
|---|---|---|
| 1/2 | 11.50 | 42.00 |
| 5/8 | 18.00 | 65.00 |
| 3/4 | 26.00 | 95.00 |
| 7/8 | 35.00 | 128.00 |
| 1 | 45.70 | 167.00 |

# VINYL & PVC COATED CABLE

## Clear Vinyl Coated Tiller Cable • Galvanized

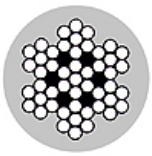


Marine tiller cable in either a 7x7 or 7x19 construction of galvanized improved plow steel with clear polyvinyl coating. This class of cable is idea for use in cable and pulley steering systems. Chemical cleaners and kerosene should not be used to clean plastic-coated cables.

| Cable Diam (in) | Coating Diam (in) | Cable Construction | Breaking Load (lbs) | Wt per 100 Ft (lbs) |
|---|---|---|---|---|
| 1/16 | 3/32 | 7x7 | 480 | 0.93 |
| 3/32 | 1/8 | 7x7 | 920 | 1.85 |
| 3/32 | 3/16 | 7x7 | 920 | 2.58 |
| 1/8* | 3/16 | 7x7 | 1,700 | 3.52 |
| 3/16* | 1/4 | 7x19 | 4,200 | 7.75 |
| 1/4* | 5/16 | 7x19 | 7,000 | 12.30 |
| 5/16 | 3/8 | 7x19 | 9,800 | 19.70 |
| 3/8 | 7/16 | 7x19 | 14,400 | 27.00 |

* Available in black polyvinyl coating

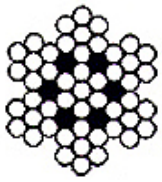
## PVC Coated Lifeline Cable • Type 304 & 316



Lifelines are usually 7x7 construction stainless steel cables coated with white PVC. The special grade of plastic has been engineered to remain durable and attractive after prolonged exposure to sunlight and seawater. Chemical cleaners and kerosene should not be used to clean plastic-coated cables.

| Cable Diam (in) | Coating Diam (in) | Cable Construction | Breaking Load (lbs) | Wt per 100 Ft (lbs) |
|---|---|---|---|---|
| 1/16 | 3/32 | 7x7 | 480 | 1.00 |
| 1/16 | 1/8 | 7x7 | 480 | 1.35 |
| 1/8 | 3/16 | 7x7 | 1,500 | 4.00 |
| 1/8 | 1/4 | 7x7 | 1,500 | 5.00 |
| 3/16 | 1/4 | 7x7 | 3,700 | 8.30 |
| 3/16 | 5/16 | 7x7 | 3,700 | 9.20 |
| 1/4 | 5/16 | 7X7 | 5,200 | 12.00 |

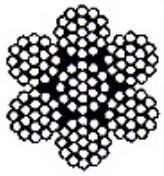
## 7x7 Aircraft Cable • Stainless & Galvanized



7x7 cable is utilized in many general-purpose applications such as slings, winch lines, non-aircraft control cables, stage rigging and more. The 7x7 construction has a medium flexibility.

| Diam (in) | Galvanized Breaking Load (lbs) | T304 Stainless Breaking Load (lbs) | Wt per 100 Ft (lbs) |
|---|---|---|---|
| 3/64 | 270 | 270 | 0.42 |
| 1/16 | 480 | 480 | 0.75 |
| 3/32 | 920 | 920 | 1.60 |
| 1/8 | 1,700 | 1,700 | 2.80 |
| 5/32 | 2,600 | 2,400 | 4.30 |
| 3/16 | 3,700 | 3,700 | 6.20 |
| 1/4 | 6,100 | 6,100 | 10.60 |
| 5/16 | 9,200 | 9,000 | 16.70 |
| 3/8 | 13,100 | 12,000 | 23.60 |

## 7x19 Aircraft Cable • Stainless & Galvanized



7x19 cable is both more flexible and fatigue resistant than the 7x7 construction. This class of aircraft cable is commonly used in boat dock applications, Type 316 stainless steel is ideal for salt water and marine applications. Galvanized 7x19 aircraft cable is ideal for applications that involve the rope being cycled back and forth over pulleys and sheaves, such as control cable and exercise equipment.

| Diam (in) | Galvanized Breaking Load (lbs) | T304 Stainless Breaking Load (lbs) | T316 Stainless Breaking Load (lbs) | Wt per 100 Ft (lbs) |
|---|---|---|---|---|
| 1/16 | - | - | 480 | 0.75 |
| 3/32 | 1,000 | 920 | - | 1.74 |
| 1/8 | 2,000 | 1,760 | 1,670 | 2.90 |
| 5/32 | 2,800 | 2,400 | - | 4.50 |
| 3/16 | 4,200 | 3,700 | 3,565 | 6.50 |
| 1/4 | 7,000 | 6,400 | 5,875 | 11.00 |
| 5/16 | 9,800 | 9,000 | 8,825 | 17.30 |
| 3/8 | 14,400 | 12,000 | 11,760 | 24.30 |

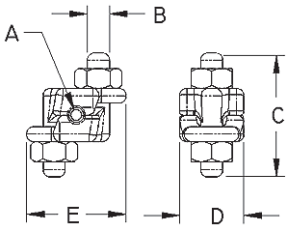
## 1x19 Aircraft Cable • T316 Stainless

1x19 cable has the least amount of flexibility of the aircraft cables. It is widely used as standing rigging on sailboats and architectural applications and is well suited for push-pull and guying applications.

| Size (in) | Breaking Load (lbs) | Appx Wt per 100 Ft (lbs) |
|---|---|---|
| 3/32 | 1,200 | 2.00 |
| 1/8 | 2,100 | 4.00 |
| 5/32 | 3,300 | 6.00 |
| 3/16 | 4,700 | 8.00 |
| 7/32 | 6,300 | 12.00 |
| 1/4 | 8,200 | 14.00 |
| 9/32 | 10,300 | 17.00 |
| 5/16 | 12,500 | 21.00 |
| 3/8 | 17,500 | 29.00 |
| 1/2 | 30,000 | 52.00 |
| 5/8 | 47,000 | 85.00 |

# FIST GRIPS

## FIST GRIPS WIRE ROPE CLIPS • HEAVY DUTY / 316-NM STAINLESS STEEL

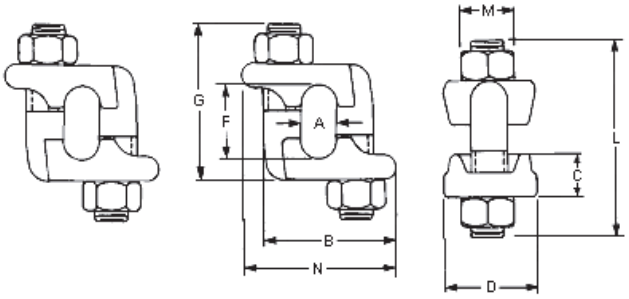



| Part # | A/Size (in) | B (in) | C (in) | D (in) | E (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0122C007 | 1/4 | 0.36 | 1.75 | 0.93 | 1.44 | 0.22 |
| S0122C008 | 5/16 | 0.38 | 2.00 | 1.07 | 1.68 | 0.31 |
| S0122C010 | 3/8 | 0.43 | 2.38 | 1.10 | 1.87 | 0.46 |
| S0122C013 | 1/2 | 0.50 | 2.70 | 1.26 | 2.13 | 0.61 |
| S0122C016 | 5/8 | 0.62 | 3.30 | 1.50 | 2.53 | 1.16 |
| S0122C020 | 3/4 | 0.75 | 3.70 | 1.75 | 3.12 | 1.88 |

Also known as “Chair Wire Rope Clips”

- Type 316-NM Stainless Steel
- I/A/W Federal Spec:
  F-C-450D, Type 3, Class 1

## FIST GRIPS WIRE ROPE CLIPS • GALVANIZED / DROP FORGED



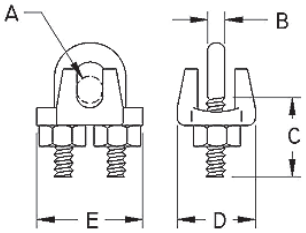

- Meets Federal Specifications:
  FF-C-450, Type III, Class 1
- Allows full arc wrench swing for quicker installation, retightening or disassembly of nuts
- Unlike U-bolt type rope clips, chair clips cannot be installed incorrectly with the saddle not on the live rope end
- Drop forged from special bar quality steel with the sizes clearly marked on the saddles
- Hot galvanized with galvanized heavy hex nuts. When properly used, these clips will give terminal efficiency ratings of approximately 80% of the catalog nominal strengths of new wire rope
- Made in USA

Also known as “Chair Wire Rope Clips”

| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | F (in) | G (in) | L (in) | M (in) | N (in) | Thread | Min. # Clips | Rope Turn Back (in) | Tourque (lb/ft) | Wt per 100 (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CM2246 | 3/16 | 0.28 | 1.25 | 0.34 | 0.94 | 0.50 | 1.28 | 1.56 | 0.69 | 1.28 | 3/8-16 | 2 | 4 | 30 | 21 |
| CM2246 | 1/4 | 0.28 | 1.25 | 0.34 | 0.94 | 0.50 | 1.28 | 1.56 | 0.69 | 1.28 | 3/8-16 | 2 | 4 | 30 | 21 |
| CM2247 | 5/16 | 0.34 | 1.38 | 0.44 | 1.06 | 0.63 | 1.47 | 1.81 | 0.69 | 1.41 | 3/8-16 | 2 | 5 | 30 | 27 |
| CM2248 | 3/8 | 0.41 | 1.56 | 0.50 | 1.06 | 0.75 | 1.81 | 2.31 | 0.75 | 1.85 | 7/16-4 | 2 | 5-1/4 | 45 | 45 |
| CM2250 | 7/16 | 0.50 | 1.78 | 0.56 | 1.25 | 1.00 | 2.19 | 2.75 | 0.88 | 2.06 | 1/2-13 | 2 | 6-1/2 | 65 | 65 |
| CM2250 | 1/2 | 0.50 | 1.78 | 0.56 | 1.25 | 1.00 | 2.19 | 2.75 | 0.88 | 2.06 | 1/2-13 | 3 | 11 | 65 | 65 |
| CM2251 | 9/16 | 0.66 | 2.25 | 0.69 | 1.50 | 1.25 | 2.69 | 3.31 | 1.06 | 2.59 | 5/8-11 | 3 | 12-3/4 | 130 | 113 |
| CM2251 | 5/8 | 0.66 | 2.25 | 0.69 | 1.50 | 1.25 | 2.69 | 3.31 | 1.06 | 2.59 | 5/8-11 | 3 | 13-1/2 | 130 | 113 |
| CM2252 | 3/4 | 0.81 | 2.69 | 0.88 | 1.81 | 1.50 | 2.94 | 3.44 | 1.25 | 3.06 | 3/4-10 | 3 | 16 | 225 | 170 |

**⚠ WARNING: Breaking Strength is listed for comparison only. Actual operating loads may vary, but should never exceed recommended design factor (WLL), or 20% of catalog Breaking Strength. Please refer to warnings on pages 4-6.**

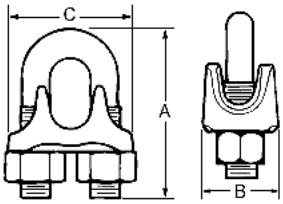
## U-BOLT WIRE ROPE CLIPS • 304 STAINLESS STEEL




- Type 304 Stainless Steel
- Precision Cast

| Part # | A/Size (in) | B (in) | C (in) | D (in) | E (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| WRCS116SUN | 1/16 | 0.09 | 0.40 | 0.52 | 0.55 | 0.02 |
| WRCS18SUN | 1/8 | 0.12 | 0.43 | 0.55 | 0.62 | 0.02 |
| WRCS532SUN | 5/32 | 0.15 | 0.56 | 0.70 | 0.73 | 0.04 |
| WRCS316SUN | 3/16 | 0.19 | 0.67 | 0.78 | 0.87 | 0.06 |
| WRCS14SUN | 1/4 | 0.23 | 0.75 | 0.84 | 1.11 | 0.09 |
| WRCS516SUN | 5/16 | 0.31 | 0.90 | 1.06 | 1.34 | 0.17 |
| WRCS38SUN | 3/8 | 0.38 | 1.00 | 1.32 | 1.74 | 0.36 |
| WRCS12SUN | 1/2 | 0.47 | 1.40 | 1.48 | 1.97 | 0.52 |
| WRCS916SUN | 9/16 | 0.47 | 1.50 | 1.70 | 2.05 | 0.61 |
| WRCS58SUN | 5/8 | 0.54 | 1.87 | 1.83 | 2.33 | 0.89 |
| WRCS34SUN | 3/4 | 0.54 | 2.00 | 2.05 | 2.42 | 1.03 |
| WRCS78SUN | 7/8 | 0.61 | 2.32 | 2.41 | 2.81 | 1.57 |
| WRCS1SUN | 1 | 0.61 | 2.41 | 2.40 | 2.97 | 1.81 |
| WRCS114SUN | 1-1/4 | 0.85 | 2.32 | 3.16 | 4.12 | 4.45 |

## U-BOLT WIRE ROPE CLIPS • ELECTRO GALVANIZED




- Electro Galvanized
- Meets Federal Spec: FF-C-450 D

*NOTE: 1⁄16” and 1⁄8” are not covered

| Part # | Size (in) | A (in) | B (in) | C (in) | Min. # Clips | Tourque (lb/ft) | Rope Turn Back (in) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|
| WRCEG116 | 1⁄16* | 0.80 | 0.45 | 0.69 | 3 | 2 | 4 | 0.03 |
| WRCEG18 | 1⁄8* | 0.99 | 0.56 | 0.94 | 3 | 3 | 4-3⁄4 | 0.04 |
| WRCEG316 | 3⁄16 | 1.19 | 0.63 | 1.06 | 3 | 4.5 | 5-1⁄2 | 0.06 |
| WRCEG14 | 1⁄4 | 1.60 | 0.75 | 1.31 | 3 | 15 | 7 | 0.13 |
| WRCEG516 | 5⁄16 | 1.62 | 0.75 | 1.44 | 3 | 15 | 7-3⁄4 | 0.15 |
| WRCEG38 | 3⁄8 | 2.01 | 0.88 | 1.63 | 3 | 30 | 9-1⁄2 | 0.21 |
| WRCEG716 | 7⁄16 | 2.44 | 1.06 | 1.88 | 4 | 40 | 10-1⁄4 | 0.37 |
| WRCEG12 | 1⁄2 | 2.44 | 1.06 | 1.88 | 4 | 45 | 15-1⁄4 | 0.37 |
| WRCEG916 | 9⁄16 | 2.81 | 1.28 | 2.09 | 4 | 50 | 16 | 0.59 |
| WRCEG58 | 5⁄8 | 2.81 | 1.28 | 2.09 | 4 | 75 | 16 | 0.59 |
| WRCEG34 | 3⁄4 | 3.12 | 1.56 | 2.38 | 5 | 75 | 22-1⁄4 | 0.84 |
| WRCEG78 | 7⁄8 | 3.69 | 1.81 | 2.88 | 5 | 130 | 23-1⁄2 | 1.25 |
| WRCEG1 | 1 | 4.07 | 2.00 | 3.00 | 6 | 130 | 31 | 1.66 |
| WRCEG118 | 1-1⁄8 | 4.75 | 2.06 | 3.38 | 7 | 200 | 39 | 2.43 |

**⚠ WARNING: Breaking Strength is listed for comparison only. Actual operating loads may vary, but should never exceed recommended design factor (WLL), or 20% of catalog Breaking Strength. Please refer to warnings on pages 4-6.**



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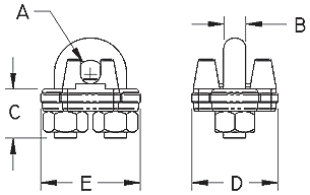
# U-BOLT WIRE ROPE CLIPS

## U-BOLT WIRE ROPE CLIPS (HEAVY DUTY) • 316-NM STAINLESS STEEL / DROP FORGED

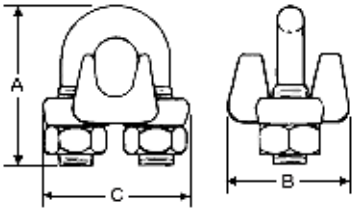



- Type 316-NM Stainless Steel
- Drop Forged

*1 inch size is not in stock and is available on special order. Please allow a 1-2 weeks for delivery.

| Part # | A/Size (in) | B (in) | C (in) | D (in) | E (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0122-0003 | 1/8 | 0.21 | 0.50 | 0.80 | 0.92 | 0.06 |
| S0122-0005 | 3/16 | 0.24 | 0.62 | 0.95 | 1.15 | 0.10 |
| S0122-0007 | 1/4 | 0.30 | 0.75 | 1.18 | 1.46 | 0.20 |
| S0122-0008 | 5/16 | 0.36 | 0.78 | 1.33 | 1.66 | 0.28 |
| S0122-0010 | 3/8 | 0.43 | 0.82 | 1.56 | 1.90 | 0.44 |
| S0122-0013 | 1/2 | 0.48 | 1.05 | 1.90 | 2.28 | 0.71 |
| S0122-0016 | 5/8 | 0.54 | 1.28 | 2.05 | 2.48 | 1.00 |
| S0122-0020 | 3/4 | 0.62 | 1.50 | 2.24 | 2.83 | 1.48 |
| S0122-0025 | *1 | - | - | - | - | - |

## U-BOLT WIRE ROPE CLIPS (HEAVY DUTY) • GALVANIZED / DROP FORGED



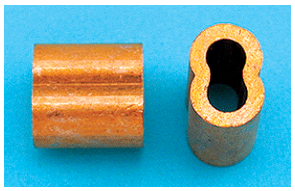

- Galvanized
- Drop Forged
- Meets Federal Specifications:
  FF-C-450
  Type 1 Class

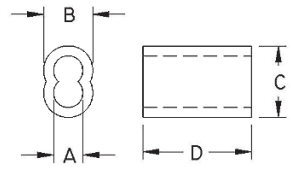
| Part # | Size (in) | A (in) | B (in) | C (in) | Min. # Clips | Tourque (lb/ft) | Rope Turn Back (in) | Wt per 100 (lb) |
|---|---|---|---|---|---|---|---|---|
| WRCDF18 | 1/8 | 1-5/16 | 13/16 | 1-5/16 | 2 | 4.50 | 3-1/4 | 5 |
| WRCDF316 | 3/16 | 1-7/32 | 15/16 | 1-5/32 | 2 | 7.50 | 3-3/4 | 9 |
| WRCDF14 | 1/4 | 1-11/32 | 1-3/16 | 1-7/16 | 2 | 15 | 4-3/4 | 18 |
| WRCDF516 | 5/16 | 1-3/4 | 1-5/16 | 1-11/16 | 2 | 30 | 5-1/4 | 30 |
| WRCDF38 | 3/8 | 1-15/16 | 1-5/8 | 1-15/16 | 2 | 45 | 6-1/2 | 42 |
| WRCDF716 | 7/16 | 2-3/8 | 1-13/16 | 2-9/32 | 2 | 65 | 7 | 70 |
| WRCDF12 | 1/2 | 2-3/8 | 1-29/32 | 2-9/32 | 3 | 65 | 11-1/2 | 75 |
| WRCDF916 | 9/16 | 2-13/16 | 2-1/16 | 2-1/2 | 3 | 95 | 12 | 100 |
| WRCDF58 | 5/8 | 2-15/16 | 2-1/16 | 2-1/2 | 3 | 95 | 12 | 100 |
| WRCDF34 | 3/4 | 3-3/8 | 2-1/4 | 2-27/32 | 4 | 130 | 18 | 150 |
| WRCDF78 | 7/8 | 3-7/8 | 2-7/16 | 3-5/32 | 4 | 225 | 19 | 240 |
| WRCDF1 | 1 | 4-1/4 | 2-5/8 | 3-15/32 | 5 | 225 | 26 | 250 |
| WRCDF118 | 1-1/8 | 4-5/8 | 2-13/16 | 3-19/32 | 6 | 225 | 34 | 310 |
| WRCDF114 | 1-1/4 | 5-1/8 | 3-1/8 | 4-1/8 | 7 | 360 | 44 | 460 |
| WRCDF138 | 1-3/8 | 5-1/2 | 3-1/8 | 4-3/16 | 7 | 360 | 44 | 520 |
| WRCDF112 | 1-1/2 | 5-13/16 | 3-13/32 | 4-7/16 | 8 | 360 | 54 | 590 |
| WRCDF158 | 1-5/8 | 6-5/16 | 3-5/8 | 4-3/4 | 8 | 430 | 58 | 730 |
| WRCDF134 | 1-3/4 | 6-7/8 | 3-13/16 | 5-9/32 | 8 | 590 | 61 | 980 |
| WRCDF2 | 2 | 7-11/16 | 4-7/16 | 5-7/8 | 8 | 750 | 71 | 1,340 |
| WRCDF214 | 2-1/4 | 8-3/8 | 4-9/16 | 6-3/8 | 8 | 750 | 73 | 1,570 |
| WRCDF212 | 2-1/2 | 8-15/16 | 4-11/16 | 6-5/8 | 9 | 750 | 84 | 1,790 |
| WRCDF234 | 2-3/4 | 9-9/16 | 5 | 6-7/8 | 10 | 750 | 100 | 2,200 |
| WRCDF3 | 3 | 10-11/16 | 5-5/16 | 7-5/8 | 10 | 1,200 | 106 | 3,200 |
| WRCDF312 | 3-1/2 | 12-1/4 | 6-3/16 | 8-3/8 | 12 | 1,200 | 149 | 4,000 |

**⚠ WARNING: Breaking Strength is listed for comparison only. Actual operating loads may vary, but should never exceed recommended design factor (WLL), or 20% of catalog Breaking Strength. Please refer to warnings on pages 4-6.**

# SWAGE SLEEVES

## SWAGE SLEEVE • COPPER

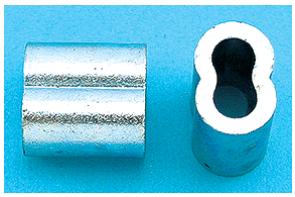


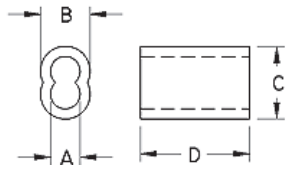



Precision Machined

| Part # | A/Wire (in) | A (mm) | B (in) | C (in) | D (in) | Crimps | Hole# |
|---|---|---|---|---|---|---|---|
| SLNC364 | 3/64 | 1.00 | - | - | - | 2 | - |
| SLNC116 | 1/16 | 1.50 | 0.17 | 0.25 | 0.37 | 2 | 1 |
| SLNC332 | 3/32 | 2.50 | 0.22 | 0.37 | 0.40 | 3 | 2 |
| SLNC18 | 1/8 | 3.00 | 0.33 | 0.49 | 0.55 | 3 | 3 |
| SLNC532 | 5/32 | 4.00 | 0.37 | 0.59 | 0.61 | 3 | 4 |
| SLNC316 | 3/16 | 5.00 | 0.45 | 0.67 | 0.94 | 3 | 5 |
| SLNC14 | 1/4 | 6.00 | 0.52 | 0.81 | 1.11 | 3 | 1 |
| SLNC516 | 5/16 | 8.00 | 0.67 | 1.02 | 1.05 | 3 | Hydraulic |
| SLNC38 | 3/8 | 9.00 | 0.73 | 1.11 | 1.24 | 3 | Hydraulic |
| SLNC12 | 1/2 | 12.00 | 0.96 | 1.47 | 1.89 | 3 | Hydraulic |

## SWAGE SLEEVE • ZINC PLATED COPPER

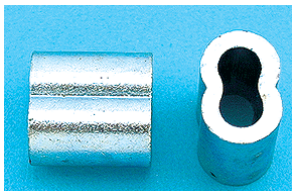


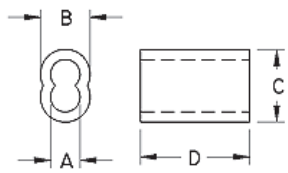



Precision Machined

| Part # | A/Wire (in) | A (mm) | B (in) | C (in) | D (in) | Crimps | Hole# |
|---|---|---|---|---|---|---|---|
| SLNZ132 | 1/32 | 0.75 | - | - | - | 2 | - |
| SLNZ364 | 3/64 | 1.00 | - | - | - | 2 | - |
| SLNZ116 | 1/16 | 1.50 | 0.17 | 0.25 | 0.37 | 2 | 1 |
| SLNZ332 | 3/32 | 2.50 | 0.22 | 0.37 | 0.40 | 3 | 2 |
| SLNZ18 | 1/8 | 3.00 | 0.33 | 0.49 | 0.55 | 3 | 3 |
| SLNZ532 | 5/32 | 4.00 | 0.40 | 0.59 | 0.61 | 3 | 4 |
| SLNZ316 | 3/16 | 5.00 | 0.45 | 0.67 | 0.94 | 3 | 5 |
| SLNZ732 | 7/32 | 5.50 | 0.46 | 0.72 | 0.86 | 3 | - |
| SLNZ14 | 1/4 | 6.00 | 0.52 | 0.81 | 1.11 | 3 | 1 |
| SLNZ516 | 5/16 | 8.00 | 0.67 | 1.02 | 1.05 | 3 | Hydraulic |
| SLNZ38 | 3/8 | 9.00 | 0.73 | 1.11 | 1.24 | 3 | Hydraulic |
| SLNZ716 | 7/16 | 11.00 | - | - | - | 3 | Hydraulic |
| SLNZ12 | 1/2 | 12.00 | 0.96 | 1.47 | 1.89 | 3 | Hydraulic |

## SWAGE SLEEVE • NICKEL PLATED COPPER






Precision Machined

| Part # | A/Wire (in) | A (mm) | B (in) | C (in) | D (in) | Crimps | Hole# |
|---|---|---|---|---|---|---|---|
| SLNN364 | 3/64 | 1.00 | - | - | - | 2 | - |
| SLNN116 | 1/16 | 1.50 | 0.17 | 0.25 | 0.37 | 2 | 1 |
| SLNN332 | 3/32 | 2.50 | 0.22 | 0.37 | 0.40 | 3 | 2 |
| SLNN18 | 1/8 | 3.00 | 0.33 | 0.49 | 0.55 | 3 | 3 |
| SLNN532 | 5/32 | 4.00 | 0.37 | 0.59 | 0.61 | 3 | 4 |
| SLNN316 | 3/16 | 5.00 | 0.45 | 0.67 | 0.94 | 3 | 5 |
| SLNN732 | 7/32 | 5.50 | 0.46 | 0.72 | 0.86 | 3 | - |
| SLNN14 | 1/4 | 6.00 | 0.52 | 0.81 | 1.11 | 3 | 1 |
| SLNN516 | 5/16 | 8.00 | 0.67 | 1.02 | 1.05 | 3 | Hydraulic |
| SLNN38 | 3/8 | 9.00 | 0.73 | 1.11 | 1.24 | 3 | Hydraulic |
| SLNN12 | 1/2 | 12.00 | 0.96 | 1.47 | 1.89 | 3 | Hydraulic |

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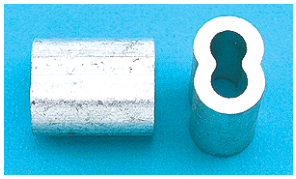
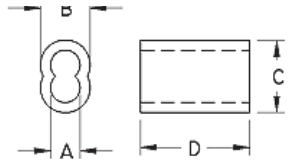
# SWAGE SLEEVES & STOPS

## SWAGE SLEEVE • ALUMINUM

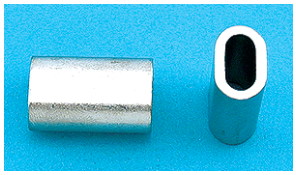


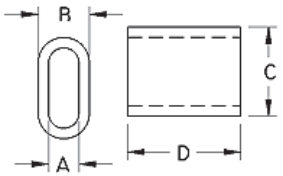



Precision Machined

| Part # | A/Wire (in) | A (mm) | B (in) | C (in) | D (in) | Crimps | Hole# |
|---|---|---|---|---|---|---|---|
| SLNA364 | 3/64 | 1.00 | - | - | - | 2 | - |
| SLNA116 | 1/16 | 1.50 | 0.19 | 0.26 | 0.39 | 2 | 1 |
| SLNA332 | 3/32 | 2.50 | 0.28 | 0.40 | 0.49 | 3 | 2 |
| SLNA18 | 1/8 | 3.00 | 0.34 | 0.49 | 0.63 | 3 | 3 |
| SLNA532 | 5/32 | 4.00 | 0.38 | 0.57 | 0.69 | 3 | 4 |
| SLNA316 | 3/16 | 5.00 | 0.44 | 0.67 | 1.00 | 3 | 5 |
| SLNA14 | 1/4 | 6.00 | 0.54 | 0.82 | 1.14 | 3 | 1 |
| SLNA516 | 5/16 | 8.00 | 0.69 | 1.03 | 1.25 | 3 | Hydraulic |
| SLNA38 | 3/8 | 9.00 | 0.75 | 1.16 | 1.45 | 3 | Hydraulic |
| SLNA716 | 7/16 | 11.00 | - | - | - | 3 | Hydraulic |
| SLNA12 | 1/2 | 12.00 | 1.05 | 1.62 | 2.00 | 3 | Hydraulic |

## SWAGE SLEEVE • 303 STAINLESS STEEL

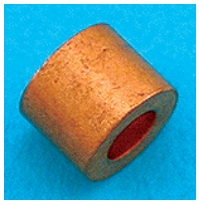


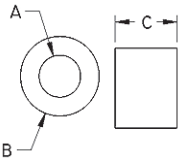



Precision Machined

| Part # | A/Wire (in) | A (mm) | B (in) | C (in) | D (in) | After Swage Diameter |
|---|---|---|---|---|---|---|
| SLNS116 | 1/16 | 1.50 | 0.14 | 0.23 | 0.38 | 0.15 |
| SLNS332 | 3/32 | 2.50 | 0.17 | 0.27 | 0.37 | 0.19 |
| SLNS18 | 1/8 | 3.00 | 0.23 | 0.36 | 0.38 | 0.29 |
| SLNS532 | 5/32 | 4.00 | 0.32 | 0.49 | 0.72 | 0.35 |
| SLNS316 | 3/16 | 5.00 | 0.36 | 0.56 | 0.88 | 0.40 |
| SLNS732 | 7/32 | 5.50 | 0.43 | 0.66 | 0.89 | 0.44 |
| SLNS14 | 1/4 | 6.00 | 0.44 | 0.72 | 1.13 | 0.53 |

## SWAGE STOP • COPPER






Precision Machined

| Part # | A/Wire (in) | A (mm) | B (in) | C (in) | Crimps | Hole# |
|---|---|---|---|---|---|---|
| SLSC116 | 1/16 | 1.50 | 0.20 | 0.22 | 2 | 1 |
| SLSC332 | 3/32 | 2.50 | 0.33 | 0.32 | 3 | 2 |
| SLSC18 | 1/8 | 3.00 | 0.33 | 0.33 | 3 | 3 |
| SLSC532 | 5/32 | 4.00 | 0.42 | 0.33 | 3 | 4 |
| SLSC316 | 3/16 | 5.00 | 0.42 | 0.32 | 3 | 5 |
| SLSC732 | 7/32 | 5.50 | 0.43 | 0.63 | 3 | - |
| SLSC14 | 1/4 | 6.00 | 0.66 | 0.71 | 3 | 1 |
| SLSC516 | 5/16 | 8.00 | 0.66 | 0.71 | 3 | - |
| SLSC38 | 3/8 | 9.00 | 0.66 | 0.71 | 3 | - |

**⚠ WARNING: Breaking Strength is listed for comparison only. Actual operating loads may vary, but should never exceed recommended design factor (WLL), or 20% of catalog Breaking Strength. Please refer to warnings on pages 4-6.**

## SAFETY / LOCKING WIRE • STAINLESS STEEL

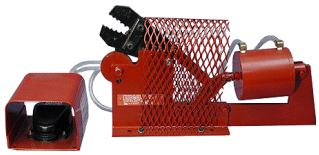
Used by the aircraft industry to secure all bolts, nuts, or hardware subject to vibrations. Locking wire is better than a cotter pin & has a thousand uses around the home, farm or factory.

- Available in 3 diameters & 2 size spools
- Type 302/304 Condition A Stainless Steel
- Military Spec: MS 20995
- Government Spec: QQW-423

| Part # | Dia. (in) | Length (ft) | Wt (lb) |
|---|---|---|---|
| WLS020S | 0.02 | 235 | 0.25 |
| WLS020L | 0.02 | 937 | 1.00 |
| WLS032S | 0.03 | 912 | 0.25 |
| WLS032L | 0.03 | 366 | 1.00 |
| WLS041S | 0.04 | 56 | 0.25 |
| WLS041L | 0.04 | 223 | 1.00 |

Please see our **TOOLS & ACCESSORIES** section
to get more information on these and other Wire Rope & Cable related items.

**CABLE CUTTERS**



**SWAGERS**


**FLUID FLIM**

**WIRE ROPE CLAMP**



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# WEB SLINGS & CARGO CONTROL

## Single path round slings

Single path round slings are used where loads must be protected from damage. The lift weight and flexibility of synthetic slings reduce fatigue and srtain on riggers. Round slings, with their color coded capacities, are rapidly gaining in popularity. We also carry round slings in black for stage rigging.

## Web Slings

We stock a large inventory of both nylon and polyester web slings for lifting. Synthetic slings are very versatile as they can be used in choker, vertical or basket configurations. Many of our slings are fabricated here at Miami Cordage and are the highest quality slings. We offer our slings in straight or reversed eyes and offer widths ranging from 1” to 12” wide.

## Cargo Control & Tie-Downs

Miami Cordage/Florida Wire & Rigging stocks a full line of ratchet straps, logistic straps, winch straps, winch binders, winch bars, ratchet buckles, load binders and transport hooks. We also custom fabricate nylon web slings to meet your exact lifting specifications.

**⚠ WARNING!!**

**FAILURE TO FOLLOW WARNINGS & INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH**

## RECOMMENDED OPERATING PRACTICES FOR WEB SLINGS



### 1. PURPOSE

The purpose of this chapter is to provide guidelines for the qualified person responsible for web sling selection, rigging, inspection and use.

### 2. MECHANICAL CONSIDERATIONS

- Determine weight of the load. The weight of the load shall be within the rated capacity of the web sling.
- Select a web sling having suitable characteristics for the type of load, hitch and environment.
- Web slings shall not be loaded in excess of the rated capacity shown on the attached identification tag. Consideration shall be given to the sling to load angle which affects rated capacity.
- Web slings with fittings, which are used in a choker hitch, shall be of sufficient length to assure that the choking action is on the webbing, and never on the fitting.
- Web slings used in a basket hitch should have the load controlled to prevent slippage.
- The opening in fittings shall be the proper shape and size to ensure that the fitting will seat properly in the hook or other attachments.
- Web slings shall always be protected from being cut or damaged by corners, edges, protrusions or abrasive surfaces.
- Web slings should not be dragged on the floor or over abrasive surfaces.
- Web slings shall not be twisted, shortened, lengthened, tied in knots, or joined by knotting. Web slings shall be shortened, lengthened, or adjusted only by methods approved by the manufacturer.
- Web slings should not be pulled from under loads when the load is resting on the web sling. Loads resting on web slings could damage the sling.
- Do not drop web slings equipped with metal fittings.
- Web slings that appear to be damaged shall not be used unless inspected and accepted as usable under Section 3, 4, and 5.
- The web sling shall be hitched in a manner providing control of the load.
- Personnel, including portions of the human body, shall be kept from between the sling and the load, and from between the sling and the crane hook or hoist hook.
- Personnel shall not stand under suspended loads. Personnel should stand clear of suspended loads.
- Personnel shall not ride the web sling or the load being lifted.
- Shock loading should be avoided.
- Twisting and kinking the legs shall be avoided.
- Load applied to the hook shall be centered in the base of the hook to prevent point loading on the hook.
- During a lift, with or without the load, personnel shall be alert for possible snagging.
- The web slings legs should contain or support the load from the sides above the center of gravity when using a basket hitch.
- Web slings shall be long enough so that the rated capacity (Working Load Limit) is adequate when the sling to load angle is taken into consideration.
- Only web slings with legible identification tags shall be used.
- Tags and labels should be kept away form the load, hook and point of choke.
- Web slings shall not be constricted or bunched between the ears of a clevis or shackle.
- Place blocks under load prior to setting down the load to allow removal of the web sling, if applicable.
- Web slings shall not be used as bridles on suspended personnel platforms.

### 3. ENVIRONMENTAL CONSIDERATIONS

Web slings should be stored in a cool, dry and dark place when not in use to prevent loss of strength through exposure to ultra-violet light. Web slings shall not be stored in chemically active environments.

Chemically active environments can affect the strength of synthetic web slings in varying degrees ranging from little to total degradation. The web sling manufacturer or qualified person should be consulted before slings are used in chemically active environments.

#### ACIDS

Nylon is subject to degradation in acids, ranging from little to total degradation.

Polyester is resistant to many acids, but is subject to degradation, ranging from little to moderate in some acids.

Each application shall be evaluated, taking into consideration the following:

a. Type of Acid
b. Exposure Conditions
c. Concentration
d. Temperature

#### ALKALIS

Polyester is subject to degradation in alkalis, ranging from little to total degradation.

Nylon is resistant to many alkalis, but is subject to degradation ranging from little to moderate in some alkalis.

- Each application shall be evaluated, taking into consideration

**⚠ WARNING: FAILURE TO COMPLY WITH WARNING MAY RESULT IN PERSONAL INJURY OR DEATH**

the following:
1. Type of Alkalis
2. Exposure Conditions
3. Concentration
4. Temperature

- Nylon and polyester slings shall not be used in contact with objects or at temperatures in excess of 194 degrees f (90c) or below –40 degrees f , -40 degrees C.

- Web slings incorporating aluminum fittings shall not be used where fumes, vapors, sprays, mists or liquids of alkalis and/ or acids are present.

- Environments in which synthetic web slings are continuously exposed to ultraviolet light can affect the strength of synthetic web slings in varying degrees ranging from slight to total degradation.

**CAUTION: DEGRADATION CAN TAKE PLACE WITHOUT VISIBLE INDICATIONS.**

- Factors, which affect the degree of strength loss, are:
  1. Length of time of continuous exposure
  2. Web sling construction and design
  3. Other environmental factors such as weather conditions and geographic location

- Suggested procedures to minimize the affects of sunlight or ultra-violet light.
  1. Store web slings in a cool, dry and dark place when not being used for prolonged periods of time.

- Some visual indications of sunlight or ultra-violet degradation are:
  1. Bleaching out of web sling color
  2. Increased stiffness of web sling material
  3. Surface abrasion in areas not normally in contact with the load

- Proof Testing Warning: Slings used in environments where they are subject to continuous exposure to sunlight or ultra-violet light shall be proof tested to twice the rated capacity semi-annually, or more frequently depending on severity of exposure.

## 4. INSPECTION

• Type of Inspection

a. Initial Inspection - Before any new or repaired web sling is placed in service, it shall be inspected by a designated person to ensure that the correct web sling is being used, as well as to determine that the web sling meets the requirements of this specification.

**b. Frequent Inspection: This inspection should be conducted by the person handling the sling each time the sling is used.**

**c. Periodic Inspection - This inspection shall be conducted by designated personnel.**

**Frequency of inspection should be based on:**

**1. Frequency of web sling use**
**2. Severity of service conditions**
**3. Experience gained on the service life of web slings used in similar applications**
**4. Inspections should be conducted at least annually**

## 5. REMOVAL FROM SERVICE

**• Treated and untreated nylon and polyester webbing, used to fabricate synthetic slings, per class 5 and class 7 rated capacity charts, may contain red yarn woven into the core of the webbing to serve only as one of many aids in determining whether and when a sling should be removed from service.**

**• A web sling shall be removed from service if any of the following are visible:**

**a. If sling rated capacity or sling material identification is missing or not readable**
**b. Acid or alkalis burns**
**c. Melting, charring or weld spatters on any part of the web sling**
**d. Holes, tears, cuts, snags or embedded particles**
**e. Broken or worn stitching in load bearing splices**
**f. Excessive abrasive wear**
**g. Knots in any part of the web sling**
**h. Excessive pitting, or corrosion, or cracked, or distorted, or broken fittings.**
**i. Any other visible damage that causes doubt as to the strength of the sling**

## 6. INSPECTION RECORDS

**• Written inspection records, utilizing the identification for each sling as established by the user, should be kept on file for all web slings. These records should show description of the sling and its condition on each periodic inspection.**

## 7. REPAIR OF WEB SLINGS

**• Sling webbing with structural damage shall never be repaired.**

**• Type I and Type II web slings, and other web slings utilizing hardware, may be rewebbed utilizing existing fittings. It shall be the responsibility of the manufacturer repairing the web sling to determine if the hardware is re-usable.**

**• Slings shall be repaired only by a sling manufacturer or a qualified person. When repaired, a sling shall be marked to identify the repair agent.**

**• All re-webbed Type I and Type II, and other web slings utilizing fittings, shall be proof tested to two (2) times their vertical rated capacity before being placed back into service. A certificate of proof testing shall be provided.**

**• Temporary repairs of webbing, fittings, or stitching shall not be permitted.**

**• Repaired slings shall be proof tested to two (2) times its assigned rated capacity before being put back into service.**

**⚠ WARNING: FAILURE TO COMPLY WITH WARNING MAY RESULT IN PERSONAL INJURY OR DEATH**

## ENDLESS ROUND SLINGS


- Lifting fibers: endless loops of polyester load bearing yarn
- Less rigging weight
- Easy handling
- Label: plastic. Leather & private labeling also available
- Capacities: 2,600 – 90,000 lb vertical rated capacity
- Wear points can be shifted to extend life
- RED core warning fibers
- Design factor: 5 to 1
- Colors: wide variety available (black is perfect for stage rigging)
- Configurations: single path roundsling
- Applications: vertical, choker & basket
- Inspection: slings should be examined throughout their length for abrasion, cuts, heat damage, fitting distortion or damage & tag legibility. Abrasion, heat damage or cuts to the cover may indicate a loss of strength to the load core. If any doubts are held by the inspector, the sling should be taken out of service. Slings removed from service that are not capable of repair shall be destroyed & rendered completely unfit for future use.

| Part # | Color | Rated Capacities | | | Min. Length (ft) | Wt per Ft (lb) | Body Dia. Relaxed (in) | Width at Load (in) |
|---|---|---|---|---|---|---|---|---|
| | | Vertical (lb) | Choker (lb) | Basket (lb) | | | | |
| SLSP300P | Purple | 2,600 | 2,100 | 5,200 | 1.50 | 0.30 | 0.50 | 1.38 |
| SLSP600G | Green | 5,300 | 4,200 | 10,600 | 1.50 | 0.40 | 0.62 | 1.68 |
| SLSP900Y | Yellow | 8,400 | 6,700 | 16,800 | 2.00 | 0.50 | 0.87 | 1.75 |
| SLSP1060T | Tan | 10,600 | 8,500 | 21,200 | 3.00 | 0.70 | 1.12 | 2.00 |
| SLSP1400R | Red | 13,200 | 10,600 | 26,400 | 3.00 | 0.80 | 1.25 | 2.50 |
| SLSP1800W | White | 16,800 | 13,400 | 33,600 | 3.00 | 1.00 | 1.50 | 2.75 |
| SLSP2200BL | Blue | 21,200 | 17,000 | 42,400 | 3.00 | 1.20 | 1.75 | 3.25 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

# POLYESTER ROUND SLINGS

## BLACK STAGE SLINGS

Length = Bearing to Bearing

Polyester endlass black stage sling.

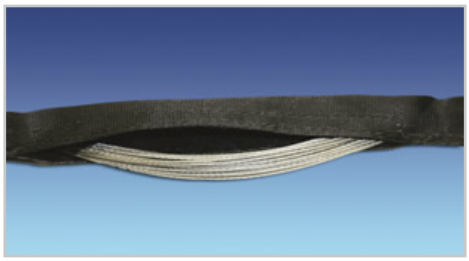
**Features:**

- 400° F temperature rating
- Velcro window allows complete core inspection
- No backup rigging required
- Superior flexibility makes rigging easy
- Black color tag is inconspicuous for stage settings
- Available lengths from 2' - 10'

| Part # | Color | Rated Capacities | | | Min. Length (ft) | Wt per Ft (lb) | Body Dia. Relaxed (in) | Width at Load (in) |
|---|---|---|---|---|---|---|---|---|
| | | Vertical (lb) | Choker (lb) | Basket (lb) | | | | |
| SLSP6002B | Black | 5,300 | 4,200 | 10,600 | 2.00 | 0.40 | 0.62 | 1.68 |

## LIFTING STEEL-TEX STAGE SLING®

Length = Bearing to Bearing



SpanSet's load bearing Steel-Tex® round sling is made of galvanized steel aircraft cable wound in an endless configurations. The wire core is encased in a heavy black polyester cover. A convenient inspection window - with Velcro closure - is located beside the capacity tag. This wide window allows for easy inspection of the core for broken wires or corrosion.

**Features:**

- Black double-wall cover
- Consistently matched lengths
- Lightweight, soft and pliable
- A standard in the concert and theatrical industries
- Ideal for inconspicuous suspension of sound and lighting equipment
- Dark color capacity tag
- "SpanSet" is the first name in Roundslings

| Part # | Color | Rated Capacities | | | Min. Length (ft) | Wt per Ft (lb) | Body Dia. Relaxed (in) | Width at Load (in) |
|---|---|---|---|---|---|---|---|---|
| | | Vertical (lb) | Choker (lb) | Basket (lb) | | | | |
| SLSP600B | Black | 5,300 | 4,200 | 10,600 | 1.50 | 0.40 | 0.62 | 1.68 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**



Miami Cordage
Florida Wire & Rigging Works

Family owned & operated Since 1960

## REVERSED EYE NYLON SLINGS

**Custom cordura reinforcement available**

Our Type IV reverse tapered eye nylon slings are fabricated in our factory according to ASME B30.9-2006 and have the strength and durability for the toughest of jobs. These slings have eyes on both ends that are twisted to a right angle to the sling body which allow for easier choker and a better fit on a crane hook in the basket hitches. Nylon is lightweight, flexible and easy to store, care should be taken when using a nylon sling or bridle in applications where high heat and sharp edges are concerned. Buffering the sling with custom corudura is available and will increase the life of your sling. We stock nylon slings in our showroom from 2' up to 20' and custom lengths are available.

- Custom cordura reinforcement available, cordura is a durable fabric that resists cutting and abrasion to extend the life of the sling
- Flat eye and endless nylon slings available

**SINGLE PLY**

| Part # | Width (in) | Rated Capacities | | |
|---|---|---|---|---|
| | | Vertical (lb) | Choker (lb) | Basket (lb) |
| SLN11P | 1 | 1,600 | 1,250 | 3,200 |
| SLN21P | 2 | 3,200 | 3,200 | 6,400 |
| SLN31P | 3 | 4,800 | 3,800 | 9,600 |
| SLN41P | 4 | 6,400 | 5,000 | 12,800 |
| SLN61P | 6 | 9,600 | 7,700 | 19,200 |
| SLN81P | 8 | 12,800 | 10,200 | 25,600 |
| SLN101P | 10 | 16,000 | 12,800 | 32,000 |
| SLN121P | 12 | 19,200 | 15,400 | 38,400 |

**DOUBLE PLY**

| Part # | Width (in) | Rated Capacities | | |
|---|---|---|---|---|
| | | Vertical (lb) | Choker (lb) | Basket (lb) |
| SLN12P | 1 | 3,200 | 2,500 | 5,400 |
| SLN22P | 2 | 6,400 | 5,000 | 12,800 |
| SLN32P | 3 | 8,600 | 6,900 | 17,200 |
| SLN42P | 4 | 11,500 | 9,200 | 23,000 |
| SLN62P | 6 | 16,300 | 13,000 | 32,600 |
| SLN82P | 8 | 19,200 | 15,400 | 38,400 |
| SLN102P | 10 | 22,400 | 17,900 | 44,800 |
| SLN122P | 12 | 26,900 | 21,500 | 53,800 |

**THREE PLY**

| Part # | Width (in) | Rated Capacities | | |
|---|---|---|---|---|
| | | Vertical (lb) | Choker (lb) | Basket (lb) |
| SLN13P | 1 | 4,100 | 3,300 | 8,200 |
| SLN23P | 2 | 8,300 | 6,600 | 16,600 |
| SLN33P | 3 | 12,500 | 10,000 | 25,000 |
| SLN43P | 4 | 16,000 | 12,800 | 32,000 |
| SLN63P | 6 | 23,000 | 18,400 | 16,000 |
| SLN83P | 8 | 30,700 | 24,500 | 61,400 |
| SLN103P | 10 | 36,800 | 29,400 | 73,600 |
| SLN123P | 12 | 44,000 | 35,200 | 88,000 |

**FOUR PLY**

| Part # | Width (in) | Rated Capacities | | |
|---|---|---|---|---|
| | | Vertical (lb) | Choker (lb) | Basket (lb) |
| SLN14P | 1 | 5,000 | 4,000 | 10,000 |
| SLN24P | 2 | 10,000 | 8,000 | 20,000 |
| SLN34P | 3 | 14,900 | 11,900 | 29,800 |
| SLN44P | 4 | 19,800 | 15,800 | 39,600 |
| SLN64P | 6 | 29,800 | 23,800 | 59,600 |
| SLN84P | 8 | 39,700 | 31,700 | 79,400 |
| SLN104P | 10 | 49,600 | 39,600 | 99,200 |
| SLN124P | 12 | 59,500 | 47,600 | 119,000 |

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

# NYLON RATCHET STRAPS

## RATCHET STRAP • FLAT HOOK WITH LONG WIDE HANDLE

Ratchet straps are the most common and effective way to secure your load. Our ratchet straps are versatile and can be made with any hardware and cut to any length to fit your specific needs.

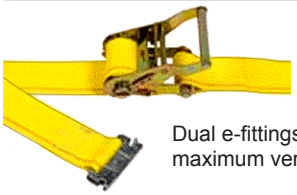
| Part # | Strap Width x Length | Breaking Strength (lb) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|
| TDSR227F | 2" x 27' | 10,000 | 3,335 | 6.80 |
| TDSR230F | 2" x 30' | 10,000 | 3,335 | 7.10 |
| TDSR327F | 3" x 27' | 15,000 | 5,000 | 11.80 |
| TDSR330F | 3" x 30' | 15,000 | 5,000 | 12.10 |
| TDSR427F | 4" x 27' | 20,000 | 6,600 | 14.70 |
| TDSR430F | 4" x 30' | 20,000 | 6,600 | 15.90 |

## RATCHET STRAP • WIRE HOOK WITH LONG WIDE HANDLE

Ratchet straps are the most common and effective way to secure your load. Our ratchet straps are versatile and can be made with any hardware and cut to any length to fit your specific needs.

| Part # | Strap Width x Length | Breaking Strength (lb) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|
| TDSR227W | 2" x 27' | 10,000 | 3,335 | 6.30 |
| TDSR230W | 2" x 30' | 10,000 | 3,335 | 6.50 |
| TDSR327W | 3" x 27' | 15,000 | 5,000 | 11.30 |
| TDSR330W | 3" x 30' | 15,000 | 5,000 | 11.90 |
| TDSR427W | 4" x 27' | 20,000 | 6,600 | 14.10 |
| TDSR430W | 4" x 30' | 20,000 | 6,600 | 15.50 |

## RATCHET STRAP • ELECTRONIC FITTINGS WITH LONG WIDE HANDLE



Dual e-fittings on fixed end for maximum versatility.

| Part # | Strap Width x Length | Breaking Strength (lb) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|
| TDSR216E | 2" x 16' | 3,000 | 1,000 | 3.30 |

## REPLACEMENT WINCH STRAP • WITH FLAT HOOK

Other hooks & ends available

| Part # | Strap Width x Length | Breaking Strength (lb) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|
| SSWS227FH | 2" x 27' | 10,000 | 3,335 | 3.00 |
| SSWS230FH | 2" x 30' | 10,000 | 3,335 | 3.20 |
| SSWS327FH | 3" x 27' | 12,000 | 4,300 | 3.90 |
| SSWS330FH | 3" x 30' | 12,000 | 4,300 | 4.20 |
| SSWS427FH | 4" x 27' | 15,000 | 5,000 | 4.80 |
| SSWS430FH | 4" x 30' | 15,000 | 5,000 | 5.20 |

## RATCHET TRANSPORT STRAP • WITH S HOOK

- Black webbing available
- Ratchet & hooks have gold-chromate finish for easy I.D.

| Part # | Strap Width x Length | Breaking Strength (lb) | WLL (lb) |
|---|---|---|---|
| TDSR16 | 1" x 6' | 4,500 | 1,500 |
| TDSR11216 | 1-1/2" x 16' | 9,000 | 3,000 |

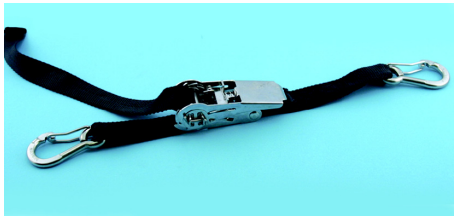


Miami Cordage
Florida Wire & Rigging Works

Family owned & operated Since 1960

# RATCHET STRAPS WITH STAINLESS STEEL

## RATCHET ASSEMBLY W/ CLIPS • 304 AND 316 STAINLESS STEEL & WEBBING



Webbing is available in blue and up to 2" wide on special order.

| Part # | Width (in) | Overall Length (ft) | WLL (lbs) | Wt (lb) |
|---|---|---|---|---|
| S02010325 | 1 | 3 | 350 | 0.86 |
| S02010425 | 1 | 4 | 350 | 0.89 |
| S02010525 | 1 | 5 | 350 | 0.92 |
| S02010625 | 1 | 6 | 350 | 0.95 |
| S02011025 | 1 | 10 | 350 | 1.05 |
| S02011225 | 1 | 12 | 350 | 1.11 |
| S02011625 | 1 | 16 | 350 | 1.23 |
| S02012025 | 1 | 20 | 350 | 1.35 |
| S02012525 | 1 | 25 | 250 | 1.50 |

## RATCHET ASSEMBLY W/ "J" HOOKS • 304 STAINLESS STEEL & WEBBING

Webbing is available in blue and up to 2" wide on special order.

| Part # | Width (in) | Overall Length (ft) | WLL (lbs) | Wt (lb) |
|---|---|---|---|---|
| S0201JJ03 | 1 | 3 | 400 | 0.86 |
| S0201JJ04 | 1 | 4 | 400 | 0.89 |
| S0201JJ05 | 1 | 5 | 400 | 0.92 |
| S0201JJ06 | 1 | 6 | 400 | 0.95 |
| S0201JJ10 | 1 | 10 | 400 | 1.05 |
| S0201JJ12 | 1 | 12 | 400 | 1.11 |
| S0201JJ16 | 1 | 16 | 400 | 1.23 |
| S0201JJ20 | 1 | 20 | 400 | 1.35 |

## RATCHET ASSEMBLY W/ "S" HOOKS • 304 & 316 STAINLESS STEEL & WEBBING

Webbing is available in blue and up to 2" wide on special order.

| Part # | Width (in) | Overall Length (ft) | WLL (lbs) | Wt (lb) |
|---|---|---|---|---|
| S0201SS03 | 1 | 3 | 200 | 0.80 |
| S0201SS04 | 1 | 4 | 200 | 0.83 |
| S0201SS05 | 1 | 5 | 200 | 0.85 |
| S0201SS06 | 1 | 6 | 200 | 0.87 |
| S0201SS10 | 1 | 10 | 200 | 0.99 |
| S0201SS12 | 1 | 12 | 200 | 1.05 |
| S0201SS16 | 1 | 16 | 200 | 1.17 |
| S0201SS20 | 1 | 20 | 200 | 1.29 |

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**



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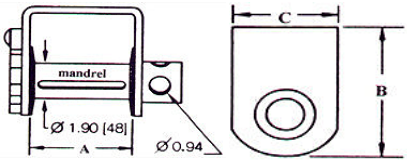
# WINCH BINDERS & RATCHET BUCKLES

## WINCH BINDERS - FOR WEBBING TIE-DOWNS




| Part # | A (in) | B (in) | C (in) | WLL (lb) | Wt (lb) | Description |
|---|---|---|---|---|---|---|
| TOTWTSH | 4.88 | 5.31 | 3.56 | 5,000 | 7.70 | Standard Weld-On |
| TOWTS | 5.00 | 5.50 | 4.00 | 5,000 | 8.10 | Standard E-Z Slide |
| TOWTSDEEP | 4.88 | 7.50 | 4.00 | 5,000 | 11.00 | Deep E-Z Slide |

Winches are designed to meet or exceed current regulations of the Department Of Transportation (DOT) & the California Highway Patrol (CHP). Durabilt offers a wide range of designs and sizes for use with 2", 3" and 4" webbing or appropriate size cable in order to provide the correct winch for the application.

Features include:
- Stronger materials for superior strength
- Precision steel sprockets and latches for dependability, consistency, and easy operation
- Smooth rounded contours for reduced webbing wear and appearance
- All winch binders are painted with "Hard Coat" - black enamel

## WINCH BAR

| Part # | Description | Wt (lb) |
|---|---|---|
| BARW | Combination with Box End • 36" • Chromed | 6.80 |

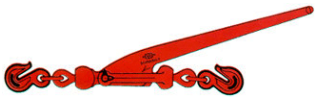
## RATCHET BUCKLES

| Part # | Description | WLL (lb) | Wt (lb) |
|---|---|---|---|
| WBR1W33B | 1" Ratchet | 3,300 | 0.78 |
| WBRBS2SN10S | 2" Ratchet Narrow Handle | 10,000 | 2.08 |
| WBR2MW10D | 2" Ratchet Medium Handle | 10,000 | 2.32 |
| WBRB2MW10DWSH | 2" Ratchet Med. Handle w/ Hook | 6,600 | 2.32 |
| WBRB2LW10D | 2" Ratchet Long Handle | 10,000 | 2.45 |
| WBRS322 | 3" Ratchet | 22,000 | 6.42 |
| WBRM322 | 3" Ratchet Medium Handle | 22,000 | - |
| WBRL322 | 3" Ratchet Long Handle | 22,000 | - |
| WBRB424 | 4" Ratchet | 24,000 | 7.94 |

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

# LOAD BINDERS

## LEVER BINDERS • DOMESTIC



- Drop-forged clevis & tongue with ball & socket design
- Continuous dual-swivel movement of 360° - stronger design in manufacturing
- Heat treated component parts
- Clear viewing of Working Load Limit identified on each binder (D.O.T. Regulation Binders)
- Proof gested
- Random destruction testing to assure peace-of-mind

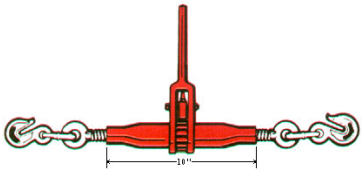
| Part # | Chain Size Max. - Min. (in) | Handle Length (in) | Take-Up (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| LB14D | 1/4 - 3/16 | 11.75 | 3.75 | 2,600 | 4.00 |
| LB51638D | 3/8 - 5/16 | 16.00 | 4.50 | 5,400 | 8.80 |
| LB3812D | 1/2 - 3/8 | 18.00 | 4.50 | 9,200 | 13.00 |
| LB1258D | 5/8 - 1/2 | 18.00 | 4.50 | 13,000 | 15.00 |

## LEVER BINDERS • IMPORT

- Heavy duty
- Painted red
- Also available in 5/8”

| Part # | Chain Size Max. - Min. (in) | Handle Length (in) | Take Up (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| LB14F | 1/4 - 3/16 | 11.25 | 2.50 | 2,150 | 2.70 |
| LB51638F | 3/8 - 5/16 | 16.00 | 4.50 | 5,400 | 6.70 |
| LB3812F | 1/2 - 3/8 | 18.50 | 4.50 | 9,200 | 11.50 |
| LB1258F | 5/8 - 1/2 | 18.50 | 4.50 | 13,000 | 13.50 |

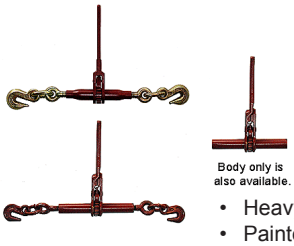
## RATCHET BINDERS • DOMESTIC



| Part # | Chain Size Max. - Min. (in) | Handle Length (in) | Take-Up (in) | Barrel Length (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| LBR51638D | 3/8 - 5/16 | 15.50 | 8.00 | 10.00 | 6,600 | 15.50 |
| LBR3812D | 1/2 - 3/8 | 15.50 | 8.00 | 10.00 | 9,200 | 14.00 |
| LBR1258D | 5/8 - 1/2 | 15.50 | 8.00 | 10.00 | 13,000 | 15.00 |

- Uni-Steel, high carbon handle,heavy swedged barrel is cold-drawn tubing instead of welded pipe
- Alloy forged heat treated hooks,electro welded links and forged eyebolts
- Bright gold zinc plated to prevent premature oxidation
- One man operated: double action handles have spring-loaded pawls which assures constant engagement of the pawl in the ratchet wheel.
- Steel pawl will always be in the drive or reverse drive operating position at any angle (push-pull)
- Working Load Limit clearly identified on each ratchet
- D.O.T. approved

## RATCHET BINDERS • IMPORT



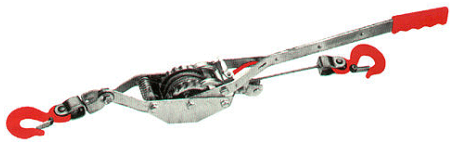
Body only is also available.

- Heavy duty
- Painted red

| Part # | Chain Size Max. - Min. (in) | Handle Length (in) | Take Up (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| LBR51638F | 5/16 - 3/8 | 14.00 | 8.00 | 5,400 | 12.00 |
| LBR3812F | 3/8 - 1/2 | 14.00 | 8.00 | 9,200 | 14.00 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

## CABLE HOIST PULLER • DURAPULLER T2



| Part # | Handle Length (in) | Dia. of Galv. 7x9 Aircraft Cable (in) | WLL (lb) | Capacity (lb) | Maximum Pull (ft) | Wt (lb) |
|---|---|---|---|---|---|---|
| TODPT4 | 20 | 3/16 | 1,000 | 2,000 | 12.00 | 8.00 |

**Features:**

- 1-Ton capacity, double drive
- Manufactured with a solid one-piece gear & drum
- Double-drive pawls & gears for power & balance operation
- Easy “flick of a finger” mechanism allowing for smooth engaging & disengaging of drive pawls
- Heat-treated, drop forged hooks with safety latches
- Heavy steel constructed frame & handle
- Hardened tempered at all stress points
- Uniform chromed finish
- Gold dychromed finish on pulley-block
- Reinforced steel swivels
- Dual 360° rotation
- Non-slip grip with 20” handle
- Protective cable cover plate
- Spring operated holding pawl
- Replacement parts available
- American engineered quality

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

# HARDWARE

## ⚠ WARNING!!

**FAILURE TO FOLLOW WARNINGS & INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH**

Refer to warnings on pages 4-6.

These warnings also apply to Hardware. Only **additional** warnings and information are listed below.

- **NEVER EXCEED THE WORKING LOAD LIMIT (WLL)**
  The WLL is the maximum load which should ever be applied to the product, even when the product is new and when the load is uniformly applied - straight line pull only. Avoid side loading. All catalog ratings are based upon usual environmental conditions, and consideration must be given to unusual conditions such as extreme high or low temperatures, chemical solutions or vapors, prolonged immersion in salt water, etc. Such conditions or high-risk applications may necessitate reducing the WLL.
  **The WLL will not apply if product has been welded or otherwise modified.**

- **MATCH COMPONENTS PROPERLY**
  Make certain that components such as hooks, links or shackles, etc. used with wire rope (or chain or cordage) are of suitable material and strength to provide adequate safety protection. Attachments must be properly installed and must have a Working Load Limit at least equal to the product with which they are used.

- **KEEP OUT FROM UNDER A RAISED LOAD**
  Conduct all lifting operations in such a manner, that if there were an equipment failure, no personnel would be injured. This means keep out from under a raised load and keep out of the line of force of any load. Do not operate load over people. Do not ride on loads.

- **AVOID SHOCK LOADS**
  Avoid impacting, jerking or swinging of load as the Working Load Limit could be exceeded and the Working Load Limit will not apply. A shock load is generally significantly greater than the static load.

- **INSPECT PRODUCTS REGULARLY**
  No product can keep operating at its rated capacity indefinitely. Periodic inspections help determine when to replace a product and reduce rigging hazards. Check for visible damage, cracks, wear, elongation, rust, corrosion, etc. When in doubt about the extent of the damage, retire the item in question immediately.

- **DESTROY, RATHER THAN DISCARD, ITEMS THAT HAVE BEEN JUDGED DEFECTIVE**
  They might be used again by someone not aware of the hazard associated with use.

  Consult the sources listed under **ADDITIONAL REFERENCE MATERIAL** on page 6

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## TRALIFT MANUAL CHAIN HOISTS


Tralift Manual Chain Hoists are lightweight and compact, specially designed for heavy-duty industrial lifting jobs.

- Easy to handle
- Equipped with built-in automatic brake
- Fitted with standard Grade 80 chain
- Uses double spur gear mechanism and double pawl system
- Optional corrosion resistant chain
- Option load limiting device
- Meets national standards (ANSI B30.16, OSHA)

| Part # | Capacity (tons) | Lift (ft) | Falls | Load Chain Size (mm) | Handling Chain Size (mm) | Wt (lb) |
|---|---|---|---|---|---|---|
| TOHT14T10 | 0.25 | 10 | 1 | 4 x 12 | 5 x 24 | 4 |
| TOHT12T10 | 0.50 | 10 | 1 | 5 x 15 | 5 x 24 | 20 |
| TOHT1215 | 0.50 | 15 | 1 | 5 x 15 | 5 x 24 | 22 |
| TOHT1220 | 0.50 | 20 | 1 | 5 x 15 | 5 x 24 | 24 |
| TOHT1T10 | 1.00 | 10 | 1 | 6 x 18 | 5 x 24 | 27 |
| TOHT1T15 | 1.00 | 15 | 1 | 6 x 18 | 5 x 24 | 30 |
| TOGT1T20 | 1.00 | 20 | 1 | 6 x 18 | 5 x 24 | 32 |
| TOHT1.5T10 | 1.50 | 10 | 1 | 8 x 24 | 5 x 24 | 42 |
| TOHT1.5T15 | 1.50 | 15 | 1 | 8 x 24 | 5 x 24 | 47 |
| TOHT1.5T20 | 1.50 | 20 | 1 | 8 x 24 | 5 x 24 | 51 |
| TOHT2T10 | 2.00 | 10 | 1 | 8 x 24 | 5 x 24 | 42 |
| TOHT2T15 | 2.00 | 15 | 1 | 8 x 24 | 5 x 24 | 47 |
| TOHT2T20 | 2.00 | 20 | 1 | 8 x 24 | 5 x 24 | 51 |
| TOHT3T10 | 3.00 | 10 | 2 | 8 x 24 | 5 x 24 | 71 |
| TOHT3T15 | 3.00 | 15 | 2 | 8 x 24 | 5 x 24 | 81 |
| TOHT3T20 | 3.00 | 20 | 2 | 8 x 24 | 5 x 24 | 90 |
| TOHT5T10 | 5.00 | 10 | 2 | 10 x 30 | 5 x 24 | 105 |
| TOHT5T15 | 5.00 | 15 | 2 | 10 x 30 | 5 x 24 | 119 |
| TOHT5T20 | 5.00 | 20 | 2 | 10 x 30 | 5 x 24 | 134 |
| TOHT10T10 | 10.00 | 10 | 4 | 10 x 30 | 5 x 24 | 218 |
| TOHT10T15 | 10.00 | 15 | 4 | 10 x 30 | 5 x 24 | 247 |
| TOHT10T20 | 10.00 | 20 | 4 | 10 x 30 | 5 x 24 | 276 |
| TOHT20T10 | 20.00 | 10 | 8 | 10 x 30 | 5 x 24 | 495 |
| TOHT20T15 | 20.00 | 15 | 8 | 10 x 30 | 5 x 24 | 553 |
| TOHT20T20 | 20.00 | 20 | 8 | 10 x 30 | 5 x 24 | 661 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## BRAVO LEVER HOIST


The Bravo Lever Hoist is designed for lifting, lowering, tensioning and pulling applications.

Miami Cordage will also make custom lift lengths to fit your exact specs upon request.

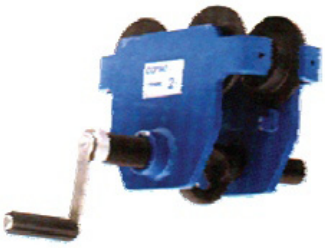
- Light & Portable
- Easy to operate
- Single hand operation to put in neutral
- Continuous 360° rotation axis lever
- Anti-slip lever handle
- High performance gears
- Optional corrosion resistant chain
- Optional load limiting device
- Meets ANSI B30.21C Standards

| Part # | Capacity (tons) | Lift (ft) | Falls | Chain Size (mm) | Wt (lb) |
|---|---|---|---|---|---|
| TOHTC14T5 | 0.25 | 5 | 1 | 4 x 12 | 4 |
| TOHTC12T5 | 0.50 | 5 | 1 | 5 x 15 | 12 |
| TOHTC12T10 | 0.50 | 10 | 1 | 5 x 15 | 13 |
| TOHTC12T15 | 0.50 | 15 | 1 | 5 x 15 | 15 |
| TOHTC12T20 | 0.50 | 20 | 1 | 5 x 15 | 17 |
| TOHTC34T5 | 0.75 | 5 | 1 | 6 x 18 | 14 |
| TOHTC34T10 | 0.75 | 10 | 1 | 6 x 18 | 17 |
| TOHTC34T15 | 0.75 | 15 | 1 | 6 x 18 | 20 |
| TOHTC34T20 | 0.75 | 20 | 1 | 6 x 18 | 22 |
| TOHTC1T5 | 1.00 | 5 | 1 | 6 x 18 | 14 |
| TOHTC1T10 | 1.00 | 10 | 1 | 6 x 18 | 17 |
| TOHTC1T15 | 1.00 | 15 | 1 | 6 x 18 | 20 |
| TOHTC1T20 | 1.00 | 20 | 1 | 6 x 18 | 22 |
| TOHTC1.5T5 | 1.50 | 5 | 1 | 7 x 21 | 26 |
| TOHTC1.5T10 | 1.50 | 10 | 1 | 7 x 21 | 30 |
| TOHTC1.5T15 | 1.50 | 15 | 1 | 7 x 21 | 33 |
| TOHTC1.5T20 | 1.50 | 20 | 1 | 7 x 21 | 37 |
| TOHTC3T5 | 3.00 | 5 | 1 | 10 x 30 | 44 |
| TOHTC3T10 | 3.00 | 10 | 1 | 10 x 30 | 51 |
| TOHTC3T15 | 3.00 | 15 | 1 | 10 x 30 | 59 |
| TOHTC3T20 | 3.00 | 20 | 1 | 10 x 30 | 66 |
| TOHTC6T5 | 6.00 | 5 | 2 | 10 x 30 | 73 |
| TOHTC3T10 | 6.00 | 10 | 2 | 10 x 30 | 88 |
| TOHTC3T15 | 6.00 | 15 | 2 | 10 x 30 | 102 |
| TOHTC3T20 | 6.00 | 20 | 2 | 10 x 30 | 117 |



**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

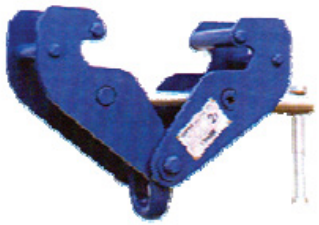
## CORSO OVERHEAD PUSH TROLLEY



| Part # | Capacity (tons) | Flange Size (in) | Flange Size (mm) | Wt (lb) |
|---|---|---|---|---|
| TOHPT1 | 1 | 2.28 - 8.66 | 58 - 220 | 31 |
| TOHPT2 | 2 | 3.00 - 8.66 | 66 - 220 | 48 |
| TOHPT3 | 3 | 2.91 - 8.66 | 74 - 220 | 92 |
| TOHPT5 | 5 | 3.50 - 8.66 | 90 - 220 | 134 |

The Corso® Overhead Traveling Push Trolley has been designed to easily suspend a variety of lifting equipment. It is you essential complement to the Tralift and Bravo range of products.

## CORSO BEAM CLAMPS



| Part # | Capacity (tons) | Flange Size (in) | Flange Size (mm) | Wt (lb) |
|---|---|---|---|---|
| TOHTBC1 | 1 | 3.00 - 9.30 | 75 - 235 | 11 |
| TOHTBC2 | 2 | 3.00 - 9.00 | 75 - 240 | 12 |
| TOHTBC3 | 3 | 3.70 - 13.20 | 95 - 335 | 24 |
| TOHTBC5 | 5 | 3.70 - 13.00 | 95 - 330 | 27 |

The Corso® Beam Clamps are for manual and electric hoists, anchor points or lifting clamps. It has a compact and sturdy construction and allows for a simple and fast adjustment on “I” beam.

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## HOISTING BLOCK / GIN WHEEL

| Part # | Size (in) | Rope (in) | Thickness of Rim (in) | Center Pin Dia. (in) | Wt (lb) | WLL (lb) |
|---|---|---|---|---|---|---|
| BLWGW12 | 12 | 1 | 1-3/8 | 5/8 | 14 | 1,000 |

- Steel shell & gray iron wheel with heavy drop forged steel swivel latch hook & pressure grease fittings
- Intended for light duty hoisting operations up to 1,000 lbs (using synthetic rope)
- Ideal use is for hoisting roofing materials & tar on to the top of buildings

## WELL WHEEL

| Part # | Size (in) | Rope Size (in) | Wheel Dia. (in) | Wt (lb) | WLL (lb) |
|---|---|---|---|---|---|
| BLWW12 | 12 | 3/4 | 10 - 3/4 | 7.16 | 250 |

- Steel shell with cast gray iron wheel, swivel wire formed hook
- For lifting loads up to 250 lbs (using synthetic rope)

## RATED SNATCH BLOCK • 316 STAINLESS STEEL

- 316 Stainless Steel
- Supplied with one ball bearing “rope” sheave
- Eye is not removable but has a hinged yoke
- Working Load Limit does not apply to the becket

**ROPE**

| Part # | Sheave Size (in) | Fits (in) | Eye (in) | Length (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S04280075R | 3 | 1/2 | 0.78 | 9.00 | 2,000 | 2.84 |
| S04280100R | 4 | 5/8 | 0.94 | 11.00 | 3,000 | 5.60 |
| S04280125R | 5 | 3/4 | 1.06 | 13.25 | 4,000 | 8.14 |
| S04280150R | 6 | 1 | 1.15 | 15.00 | 5,000 | 11.28 |

**WIRE**

| Part # | Sheave Size (in) | Fits (in) | Eye (in) | Length (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S04280075W | 3 | 3/16 | 0.78 | 9.00 | 2,000 | 2.84 |
| S04280100W | 4 | 1/4 | 0.95 | 11.00 | 3,000 | 5.60 |
| S04280125W | 5 | 5/16 | 1.06 | 13.25 | 4,000 | 8.14 |
| S04280150W | 6 | 3/8 | 1.15 | 15.00 | 5,000 | 11.28 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**



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# BLOCKS

## SWIVEL EYE BLOCK • 304/316 STAINLESS STEEL

- Supplied with removable 316 or 304 sheave
- Eyes are not removable
- Working load limit does not apply to the becket

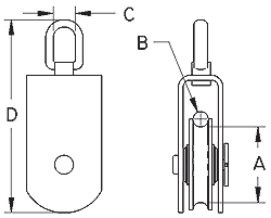
| Part # | Sheave Size (in) | Rope Size (in) | Eye (in) | Length (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| **ROPE** | | | | | | |
| S0423E075R | 3 | 1/2 | 0.95 | 10.00 | 1,400 | 2.22 |
| S0423E100R | 4 | 5/8 | 0.95 | 12.50 | 2,000 | 4.08 |
| S0423E125R | 5 | 3/4 | 1.25 | 14.00 | 3,000 | 5.38 |
| **WIRE** | | | | | | |
| S0423E075W | 3 | 3/16 | 0.95 | 10.00 | 1,400 | 3.46 |
| S0423E100W | 4 | 1/4 | 0.95 | 12.50 | 2,000 | 4.08 |
| S0423E125W | 5 | 5/16 | 1.25 | 14.00 | 3,000 | 5.38 |

## TWIN SWIVEL EYE BLOCK • 304/316 STAINLESS STEEL

- Supplied with 2 removable 316 or 304 sheaves
- Eyes are not removable
- Working load limit does not apply to the becket

| Part # | Sheave Size (in) | Rope Size (in) | Eye (in) | Length (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| **ROPE** | | | | | | |
| S0424E075R | 3 | 1/2 | 0.95 | 10.00 | 1,400 | 3.46 |
| S0424E100R | 4 | 5/8 | 0.95 | 12.50 | 2,000 | 5.25 |
| S0424E125R | 5 | 3/4 | 1.25 | 14.00 | 3,000 | 6.50 |
| **WIRE** | | | | | | |
| S0424E075W | 3 | 3/16 | 0.95 | 10.00 | 1,400 | 3.46 |
| S0424E100W | 4 | 1/4 | 0.95 | 12.50 | 2,000 | 5.25 |
| S0424W125W | 5 | 5/16 | 1.25 | 14.00 | 3,000 | 6.50 |

## SQUARE SWIVEL EYE BLOCK • 304/316 STAINLESS STEEL




- Supplied with removable 316 or 304 sheave
- Eye is not removable

| Part # | A Sheave Size (in) | B Wire Rope (in) | C Eye (in) | D Length (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| **ROPE** | | | | | | |
| S04260050 | 2 | 3/8 | 0.82 | 5.00 | 1,000 | 1.75 |
| S0426-0075 | 3 | 1/2 | 0.97 | 6.75 | 1,400 | 2.10 |
| S0426-0100 | 4 | 5/8 | 0.97 | 8.00 | 2,000 | 3.34 |
| **WIRE** | | | | | | |
| S0426-0050-W | 2 | 1/8 | 0.82 | 5.00 | 1,000 | 1.75 |
| S0426-0075-W | 3 | 3/16 | 0.97 | 6.75 | 1,400 | 2.10 |
| S0426-0100-W | 4 | 1/4 | 0.97 | 8.00 | 2,000 | 3.34 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## SWIVEL EYE BLOCK • 304/316 STAINLESS STEEL

- 316 Stainless Steel
- Eye is not removable
- Supplied with removable sheave

| Part # | Sheave Size (in) | Rope Size (in) | Eye (in) | Length (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| **ROPE** | | | | | | |
| S04280075R | 3 | 1/2 | 0.78 | 9.00 | 2,000 | 2.84 |
| S04280100R | 4 | 5/8 | 0.95 | 11.00 | 3,000 | 5.60 |
| S04280125R | 5 | 3/4 | 1.06 | 13.25 | 4,000 | 8.14 |
| S04280150R | 6 | 1 | 1.15 | 15.00 | 5,000 | 11.28 |
| **WIRE** | | | | | | |
| S04280075W | 3 | 3/16 | 0.78 | 9.00 | 2,000 | 2.84 |
| S04280100W | 4 | 1/4 | 0.95 | 11.00 | 3,000 | 5.60 |
| S04280125W | 5 | 3/4 | 1.06 | 13.25 | 4,000 | 8.14 |

## SEINE BLOCK WITH EYE • 316 STAINLESS STEEL

- 316 Stainless Steel
- Eye is not removable
- Supplied with removable sheave

| Part # | Sheave Size (in) | Rope Size (in) | Eye (in) | Length (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| **ROPE** | | | | | | |
| S04270075R | 3 | 1/2 | 0.94 | 8.75 | 1,500 | 3.12 |
| S04270100R | 4 | 5/8 | 0.94 | 9.75 | 2,500 | 5.92 |
| **WIRE** | | | | | | |
| S04270075W | 3 | 3/16 | 0.94 | 8.75 | 1,500 | 3.12 |
| S04270100W | 4 | 1/4 | 0.94 | 9.75 | 2,500 | 5.92 |

## SEINE BLOCK WITH HOOK • 316 STAINLESS STEEL

- 316 Stainless Steel
- Eye is not removable
- Supplied with removable sheave

| Part # | Sheave Size (in) | Rope Size (in) | Hook (in) | Length (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| **ROPE** | | | | | | |
| S0427H075R | 3 | 1/2 | 0.71 | 9.50 | 1,500 | 3.44 |
| S0427H100R | 4 | 5/8 | 1.26 | 12.00 | 2,500 | 6.58 |
| **WIRE** | | | | | | |
| S0427H0075W | 3 | 3/16 | 0.71 | 9.50 | 1,500 | 3.44 |
| S0427H0100W | 4 | 1/4 | 1.26 | 12.00 | 2,500 | 6.58 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**



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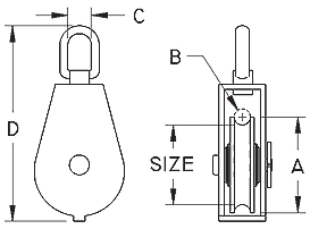
# BLOCKS

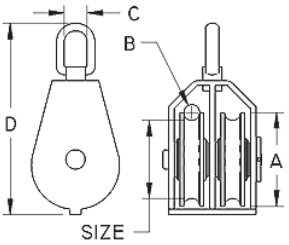
## SWIVEL BLOCK • 304/316 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S04010025 | 5/8 | 1.00 | 1/4 | 0.61 | 3.28 | 400 | 0.31 |
| S04010032 | 7/8 | 1.50 | 5/16 | 0.63 | 3.85 | 600 | 0.42 |
| S04010050 | 1-3/8 | 2.00 | 3/8 | 0.82 | 5.00 | 1,000 | 0.80 |

- Supplied with removable 316 stainless sheave
- Precision cast

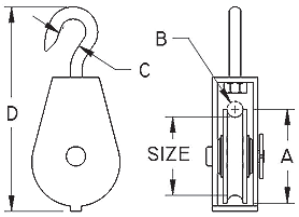
## TWIN SWIVEL BLOCK • 304/316 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S04020025 | 5/8 | 1.00 | 1/4 | 0.58 | 3.28 | 400 | 0.46 |
| S04020032 | 7/8 | 1.50 | 5/16 | 0.63 | 3.85 | 600 | 0.62 |
| S04020050 | 1-3/8 | 2.00 | 3/8 | 0.82 | 5.00 | 1,000 | 1.29 |

- Supplied with removable 316 stainless sheaves
- Precision cast

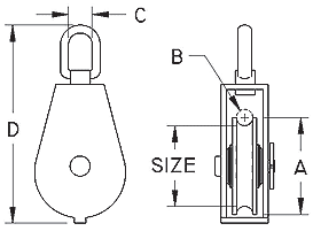
## SWIVEL BLOCK WITH HOOK • 304 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S0401H050 | 1-3/8 | 2.00 | 3/8 | 0.56 | 5.40 | 750 | 0.80 |

- 304 Stainless Steel
- Precision cast
- Hook is not removable

## SWIVEL BLOCK • 304/316 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S04030025 | 1 | 1.25 | 1/4 | 0.58 | 3.28 | 400 | 0.33 |
| S04030038 | 1-1/2 | 1.75 | 5/16 | 0.63 | 3.85 | 600 | 0.50 |
| S04030050 | 2 | 2.25 | 3/8 | 0.82 | 5.00 | 1,000 | 0.92 |

- 304/316 Stainless Steel
- Supplied with removable 316 Stainless sheaves
- Precision cast

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## WOOD BLOCKS

These are beautiful wood shell blocks for manila rope with drop forged fittings and bronze self-lubricating brushings. The metal parts are hot-dipped galvanized.

**SINGLE**

| Part # | Block Size (in) | Rope Dia. (in) | O.D. (in) | Thickness of Rim (in) | Center Pin Dia. (in) | Wt (lb) | WLL (lb) |
|---|---|---|---|---|---|---|---|
| AJ203S3 | 3 | 3/8 | 1-3/4 | 1/2 | 3/8 | 1.00 | 500 |
| AJ203S4 | 4 | 1/2 | 2-1/4 | 5/8 | 3/8 | 2.00 | 1,000 |
| AJ203S5 | 5 | 5/8 | 3 | 3/4 | 3/8 | 2.50 | 1,200 |
| AJ203S6 | 6 | 3/4 | 3-1/2 | 1 | 1/2 | 4.00 | 1,800 |
| AJ203S8 | 8 | 1 | 4-3/4 | 1-1/8 | 5/8 | 9.50 | 2,800 |
| AJ203S10 | 10 | 1-1/8 | 6-1/4 | 1-1/4 | 5/8 | 32.00 | 8,000 |

**DOUBLE**

| Part # | Block Size (in) | Rope Dia. (in) | O.D. (in) | Thickness of Rim (in) | Center Pin Dia. (in) | Wt (lb) | WLL (lb) |
|---|---|---|---|---|---|---|---|
| AJ203D3 | 3 | 3/8 | 1-3/4 | 1/2 | 3/8 | 1.50 | 800 |
| AJ203D4 | 4 | 1/2 | 2-1/4 | 5/8 | 3/8 | 3.00 | 1,400 |
| AJ203D5 | 5 | 5/8 | 3 | 3/4 | 3/8 | 4.00 | 1,800 |
| AJ203D6 | 6 | 3/4 | 3-1/2 | 1 | 1/2 | 6.50 | 2,500 |
| AJ203D8 | 8 | 1 | 4-3/4 | 1-1/8 | 5/8 | 13.00 | 3,800 |
| AJ203D10 | 10 | 1-1/8 | 6-1/4 | 1-1/4 | 5/8 | 25.00 | 6,000 |

**TRIPLE**

| Part # | Block Size (in) | Rope Dia. (in) | O.D. (in) | Thickness of Rim (in) | Center Pin Dia. (in) | Wt (lb) | WLL (lb) |
|---|---|---|---|---|---|---|---|
| AJ203T3 | 3 | 3/8 | 1-3/4 | 1/2 | 3/8 | 2.00 | 1,200 |
| AJ203T4 | 4 | 1/2 | 2-1/4 | 5/8 | 3/8 | 4 .00 | 1,800 |
| AJ203T5 | 5 | 5/8 | 3 | 3/4 | 3/8 | 5.50 | 2,400 |
| AJ203T6 | 6 | 3/4 | 3-1/2 | 1 | 1/2 | 9 .00 | 3,200 |
| AJ203T8 | 8 | 1 | 4-3/4 | 1-1/8 | 5/8 | 17.00 | 4,800 |
| AJ203T10 | 10 | 1-1/8 | 6-1/4 | 1-1/4 | 5/8 | 32.00 | 8,000 |

## GALVANIZED BLOCK WITH HOOK

Perfect for Manila and other fiber ropes

| Part # | Block Size (in) | Rope Dia. (in) | O.D. (in) | Thickness of Rim (in) | Center Pin Dia. (in) | Wt (lb) | WLL (lb) |
|---|---|---|---|---|---|---|---|
| CT7245335 | 3 | 3/8 | 1-3/4 | 1/2 | 3/8 | 1.50 | 700 |
| CT7245435 | 4 | 1/2 | 2-1/4 | 5/8 | 3/8 | 2.50 | 1,100 |
| CT7245535 | 5 | 5/8 | 3 | 3/4 | 3/8 | 4.00 | 1,300 |
| CT7245635 | 6 | 3/4 | 3-1/2 | 1 | 1/2 | 6.00 | 2,000 |
| CT7245835 | 8 | 1 | 4-3/4 | 1-1/8 | 5/8 | 11.00 | 3,300 |
| CT72451035 | 10 | 1-1/4 | 6-1/4 | 1-1/2 | 3/4 | 23.00 | 5,000 |



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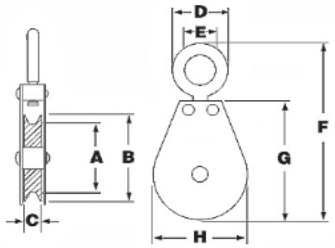
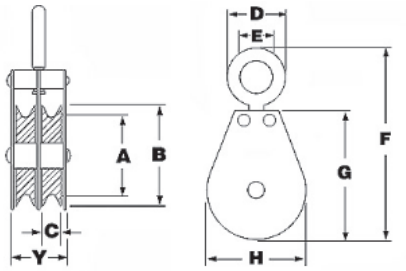
## SINGLE SWIVEL EYE BLOCKS




- For use with wire rope
- High quality single swivel eye blocks
- Available with snatch option and removable pin on request

| Part # | Max Cable Size (in) | A (in) | B (in) | C (in) | D (in) | E (in) | F (in) | G (in) | H (in) | Safe Work Load (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BL01548 | 3/16 | 1 | 1-1/2 | 7/16 | 1-1/4 | 5/8 | 3-13/16 | 2-7/16 | 1-5/8 | 525 | 0.50 |
| BL02048 | 3/16 | 1-1/2 | 2 | 7/16 | 1-1/4 | 5/8 | 4-1/4 | 2-15/16 | 2-1/8 | 600 | 0.70 |
| BL02548 | 1/4 | 2 | 2-1/2 | 7/16 | 1-1/2 | 7/8 | 5 | 3-7/16 | 2-5/8 | 685 | 1.00 |
| BL03048 | 1/4 | 2-1/2 | 3 | 7/16 | 1-1/2 | 7/8 | 5-5/8 | 4-1/16 | 3-1/8 | 800 | 1.40 |
| BL03548 | 5/16 | 3 | 3-1/2 | 5/8 | 2-1/16 | 1-3/16 | 7-5/8 | 5-3/8 | 3-3/4 | 1,550 | 3.10 |
| BL04048 | 3/8 | 3-1/4 | 4 | 5/8 | 2-1/16 | 1-3/16 | 8-3/8 | 6 | 4-1/4 | 1,700 | 3.60 |

## DOUBLE SWIVEL EYE BLOCKS

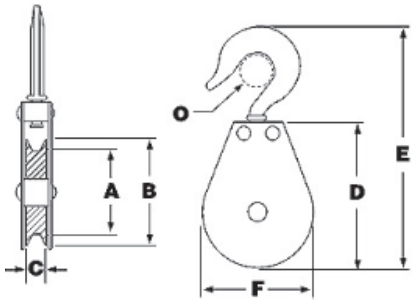



- For use with wire rope
- High quality double swivel eye blocks
- Available with snatch option and removable pin on request

| Part # | Max Cable Size (in) | A (in) | B (in) | C (in) | D (in) | E (in) | F (in) | G (in) | H (in) | Y (in) | Safe Work Load (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BL015482 | 3/16 | 1 | 1-1/2 | 7/16 | 1-1/4 | 5/8 | 3-13/16 | 2-7/16 | 1-5/8 | 1-7/32 | 525 | 1.00 |
| BL020482 | 3/16 | 1-1/2 | 2 | 7/16 | 1-1/4 | 5/8 | 4-1/4 | 2-15/16 | 2-1/8 | 1-7/32 | 600 | 1.50 |
| BL025482 | 1/4 | 2 | 2-1/2 | 7/16 | 1-1/2 | 7/8 | 5 | 3-7/16 | 2-5/8 | 1-7/32 | 685 | 2.00 |
| BL030482 | 1/4 | 2-1/2 | 3 | 7/16 | 1-1/2 | 7/8 | 5-5/8 | 4-1/16 | 3-1/8 | 1-7/32 | 800 | 2.50 |
| BL035482 | 5/16 | 3 | 3-1/2 | 5/8 | 2-1/16 | 1-3/16 | 7-5/8 | 5-3/8 | 3-3/4 | 1-13/16 | 1,550 | 5.00 |
| BL040482 | 3/8 | 3-1/4 | 4 | 5/8 | 2-1/16 | 1-3/16 | 8-3/8 | 6 | 4-1/4 | 1-13/16 | 1,700 | 6.30 |
| BL050482 | 3/8 | 4-1/4 | 5 | 5/8 | 2-1/16 | 1-3/16 | 9-3/8 | 7 | 5-1/4 | 1-13/16 | 1,850 | 9.10 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

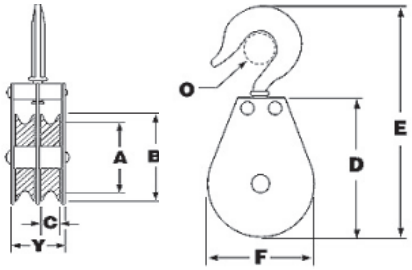
## SINGLE SWIVEL HOOK BLOCKS




- For use with wire rope
- High quality single swivel hook blocks with safety latch (latch not shown in diagram)
- Available with snatch option and removable pin on request

| Part # | Max Cable Size (in) | A (in) | B (in) | C (in) | D (in) | E (in) | F (in) | O (in) | Safe Working Load (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|---|
| BL01548-SL | 3/16 | 1 | 1-1/2 | 7/16 | 2-7/16 | 4-1/8 | 1-5/8 | 5/16 | 525 | 0.50 |
| BL02078-SL | 3/16 | 1-1/2 | 2 | 7/16 | 2-15/16 | 4-5/8 | 2-1/8 | 5/16 | 600 | 0.70 |
| BL02578-SL | 1/4 | 2 | 2-1/2 | 7/16 | 3-7/16 | 5-3/4 | 5 | 1/2 | 685 | 1.00 |
| BL03078-SL | 1/4 | 2-1/2 | 3 | 7/16 | 4-1/16 | 6-1/4 | 3-1/8 | 1/2 | 800 | 1.40 |
| BL03578-SL | 5/16 | 3 | 3-1/2 | 5/8 | 5-3/8 | 8-1/2 | 3-3/4 | 13/16 | 1,550 | 3.10 |
| BL04078-SL | 3/8 | 3-1/4 | 4 | 5/8 | 6 | 9 | 4-1/4 | 13/16 | 1,700 | 3.80 |
| BL05078-SL | 3/8 | 4-1/4 | 5 | 5/8 | 7 | 10 | 5-1/4 | 13/16 | 1,850 | 5.30 |

## DOUBLE SWIVEL HOOK BLOCKS




- For use with wire rope
- High quality double swivel hook blocks with safety latch (latch not shown in diagram)
- Available with snatch option and removable pin on request

| Part # | Max Cable Size (in) | A (in) | B (in) | C (in) | D (in) | E (in) | F (in) | O (in) | Y (in) | Safe Working Load (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BL015482-SL | 3/16 | 1 | 1-1/2 | 7/16 | 2-7/16 | 4-1/8 | 1-5/8 | 5/16 | 1-7/32 | 525 | 1.00 |
| BL020782-SL | 3/16 | 1-1/2 | 2 | 7/16 | 2-15/16 | 4-5/8 | 2-1/8 | 5/16 | 1-7/32 | 600 | 1.50 |
| BL025782-SL | 1/4 | 2 | 2-1/2 | 7/16 | 3-7/16 | 5-3/4 | 2-5/8 | 1/2 | 1-7/32 | 685 | 2.00 |
| BL030782-SL | 1/4 | 2-1/2 | 3 | 7/16 | 4-1/16 | 6-1/4 | 3-1/8 | 1/2 | 5/8 | 800 | 2.50 |
| BL035782-SL | 5/16 | 3 | 3-1/2 | 5/8 | 5-3/8 | 8-1/2 | 3-3/4 | 13/16 | 1-13/16 | 1,550 | 5.50 |
| BL040782SNSL | 3/8 | 3-1/4 | 4 | 5/8 | 6 | 9 | 4-1/4 | 13/16 | 1-13/16 | 1,700 | 6.50 |
| BL050782-SL | 3/8 | 4-1/4 | 5 | 5/8 | 7 | 10 | 5-1/4 | 13/16 | 1-13/16 | 1,850 | 9.30 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**



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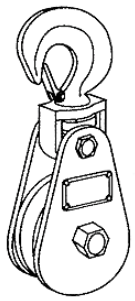
# BLOCKS

## SNATCH BLOCK WITH HOOK



- Bronze bushed
- Painted blue

| Part # | Sheave Size (in) | WLL (tons) | Wire Rope Size (in) | Wt (lb) |
|---|---|---|---|---|
| BLK41803 | 3 | 2 | 3/8 | 5 |
| BLK4180412 | 4-1/2 | 4 | 1/2 | 12 |
| BLK41806 | 6 | 8 | 3/4 | 28 |
| BLK41808 | 8 | 8 | 3/4 | 34 |
| BLK418010 | 10 | 8 | 3/4 | 41 |

- All alloy
- Bronze bushed & painted red

**ALL ALLOY**

| Part # | Sheave Size (in) | WLL (tons) | Wire Rope Size (in) | Wt (lb) |
|---|---|---|---|---|
| BLK41606 | 6 | 12 | 3/4 - 7/8 | 28 |
| BLK41608 | 8 | 12 | 3/4 - 7/8 | 35 |

## SNATCH BLOCK WITH SHACKLE

- Bronze bushed
- Painted blue

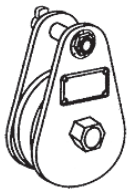
| Part # | Sheave Size (in) | WLL (tons) | Wire Rope Size (in) | Wt (lb) |
|---|---|---|---|---|
| BLK41903 | 3 | 2 | 3/8 | 5 |
| BLK4190412 | 4-1/2 | 4 | 1/2 | 13 |
| BLK41906 | 6 | 8 | 3/4 | 29 |
| BLK41908 | 8 | 8 | 3/4 | 36 |
| BLK419010 | 10 | 8 | 3/4 | 44 |

- All Alloy
- Bronze bushed & painted red

**ALL ALLOY**

| Part # | Sheave Size (in) | WLL (tons) | Wire Rope Size (in) | Wt (lb) |
|---|---|---|---|---|
| BLK41606 | 6 | 12 | 3/4 - 7/8 | 29 |
| BLK41608 | 8 | 12 | 3/4 - 7/8 | 35 |
| BLK417010 | 10 | 12 | 1 | 44 |

## TAIL BOARD SNATCH BLOCK



- Bronze bushed
- Painted blue

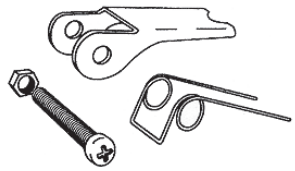
| Part # | Sheave Size (in) | WLL (tons) | Wire Rope Size (in) | Wt (lb) |
|---|---|---|---|---|
| BLK40403 | 3 | 2 | 3/8 | 2 |
| BLK4140412 | 4-1/2 | 4 | 1/2 | 8 |
| BLK40406 | 6 | 8 | 3/4 | 16 |
| BLK40408 | 8 | 8 | 3/4 | 23 |

- All Alloy
- Bronze bushed & painted red

**ALL ALLOY**

| Part # | Sheave Size (in) | WLL (tons) | Wire Rope Size (in) | Wt (lb) |
|---|---|---|---|---|
| BLK40206 | 6 | 12 | 3/4 - 7/8 | 16 |

## SNATCH BLOCK LATCH KIT • STAINLESS STEEL



- Stainless Steel
- Heavy duty construction
- Designed for our snatch block hooks

| Part # | Block Size (in) | Wt (lb) |
|---|---|---|
| LATCH3 | 3 | 0.04 |
| LATCH412 | 4-1/2 | 0.08 |
| LATCH6 | 6 | 0.11 |
| LATCH8 | 8 | 0.11 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## AWNING / TACKLE PULLEY
**ELECTRO GALVANIZED, TENZALLOY ALUMINUM & BRONZE**

**SINGLE • SWIVEL EYE**

| Part # | Pulley Size (in) | Metal/ Finish |
|---|---|---|
| PEG017334 | 3/4 | Electro Galv. |
| PEG01731 | 1 | Electro Galv. |
| PEG0173114 | 1-1/4 | Electro Galv. |
| PEG0173112 | 1-1/2 | Electro Galv. |
| PEG01732 | 2 | Electro Galv. |
| WC017312 | 1/2 | Aluminum |
| WC017334 | 3/4 | Aluminum |
| WC01731 | 1 | Aluminum |
| WC0173114 | 1-1/4 | Aluminum |
| WC0173112 | 1-1/2 | Aluminum |
| WC01732 | 2 | Aluminum |
| PB017334 | 3/4 | Bronze |
| PB01731 | 1 | Bronze |
| PB0173114 | 1-1/4 | Bronze |
| PB0173112 | 1-1/2 | Bronze |
| PB01732 | 2 | Bronze |

**SINGLE • FAST EYE**

| Part # | Pulley Size (in) | Metal/ Finish |
|---|---|---|
| PEG017434 | 3/4 | Electro Galv. |
| PEG01741 | 1 | Electro Galv. |
| PEG0174114 | 1-1/4 | Electro Galv. |
| PEG0174112 | 1-1/2 | Electro Galv. |
| PEG01742 | 2 | Electro Galv. |
| PEG0174212 | 2-1/2 | Electro Galv. |
| WC017412 | 1/2 | Aluminum |
| WC017434 | 3/4 | Aluminum |
| WC01741 | 1 | Aluminum |
| WC0174114 | 1-1/4 | Aluminum |
| WC0174112 | 1-1/2 | Aluminum |
| WC01742 | 2 | Aluminum |
| WC0174212 | 2-1/2 | Aluminum |
| PB017412 | 1/2 | Bronze |
| PB017434 | 3/4 | Bronze |
| PB01741 | 1 | Bronze |
| PB0174112 | 1-1/2 | Bronze |
| PB01742 | 2 | Bronze |

**DOUBLE • SWIVEL EYE**

| Part # | Pulley Size (in) | Metal/ Finish |
|---|---|---|
| PEG017834 | 3/4 | Electro Galv. |
| PEG01781 | 1 | Electro Galv. |
| PEG0178112 | 1-1/2 | Electro Galv. |
| PEG01782 | 2 | Electro Galv. |
| PB01781 | 1 | Bronze |
| PB0178112 | 1-1/2 | Bronze |
| PB01782 | 2 | Bronze |

**DOUBLE • FAST EYE**

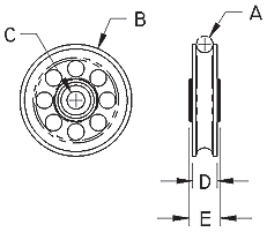
| Part # | Pulley Size (in) | Metal/ Finish |
|---|---|---|
| PEG017634 | 3/4 | Electro Galv. |
| PEG01761 | 1 | Electro Galv. |
| PEG0176114 | 1-1/4 | Electro Galv. |
| PEG0176112 | 1-1/2 | Electro Galv. |
| PEG01762 | 2 | Electro Galv. |
| PEG0176212 | 2-1/2 | Electro Galv. |
| WC017634 | 3/4 | Aluminum |
| WC01761 | 1 | Aluminum |
| WC0176114 | 1-1/4 | Aluminum |
| WC0176112 | 1-1/2 | Aluminum |
| WC01762 | 2 | Aluminum |
| WC0176212 | 2-1/2 | Aluminum |
| PB017612 | 1/2 | Bronze |
| PB017634 | 3/4 | Bronze |
| PB01761 | 1 | Bronze |
| PB0176112 | 1-1/2 | Bronze |
| PB01762 | 2 | Bronze |



⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# SHEAVES

## FIBER ROPE SHEAVE (BEARINGS) • 316 STAINLESS STEEL

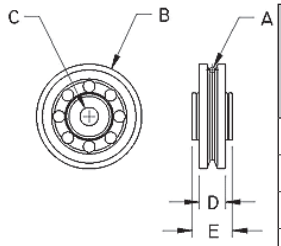



| Part # | A Rope Size (in) | B Overall (in) | C Bore (in) | D Rim Width (in) | E Width* (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S04110707 | 1/4 | 1.25 | 1/4 | 0.38 | 0.53 | 300 | 0.08 |
| S04111010 | 3/8 | 2.25 | 3/8 | 0.56 | 0.81 | 1,000 | 0.27 |
| S04111313 | 1/2 | 3.25 | 1/2 | 0.72 | 0.94 | 1,200 | 0.60 |
| S04111616 | 5/8 | 4.25 | 5/8 | 0.94 | 1.07 | 2,500 | 1.38 |

- 316 Stainless Steel
- For use with fiborous rope
- Fitted with two high quality, shielded, stainless steel bearings

*Hub of stainless sheave is approximately 1/8” narrower than hub width of bush given

## WIRE ROPE SHEAVE (BEARINGS) • 316 STAINLESS STEEL

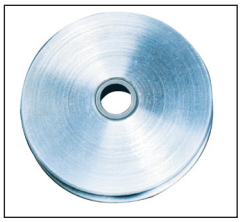


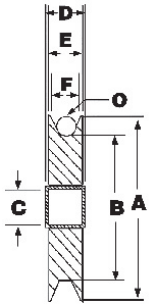

| Part # | A Rope Size (in) | B Overall (in) | C Bore (in) | D Rim Width (in) | E Width* (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S04130307 | 3/32-1/8 | 2.25 | 3/8 | 0.56 | 0.81 | 1,000 | 0.36 |
| S04130513 | 3/16 | 3.25 | 1/2 | 0.72 | 0.94 | 1,200 | 0.82 |
| S04130713 | 1/4 | 4.25 | 1/2 | 0.94 | 1.07 | 1,200 | 1.50 |
| S04130816 | 5/16 | 5.25 | 5/8 | 1.13 | 1.41 | 3,800 | 2.63 |
| S04131020 | 3/8 | 6.25 | 3/4 | 1.38 | 1.70 | 3,800 | 5.20 |

- 316 Stainless Steel
- For use with wire rope
- Fitted with two high quality, shielded, stainless steel bearings

*Hub of stainless sheave is approximately 1/8” narrower than hub width of bush given.

## SHEAVES WITH BRONZE BUSHINGS



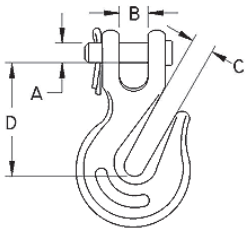



| Part # | Max Cable Size (in) | A (in) | B (in) | C (in) | D (in) | E (in) | F (in) | O (in) | Safe Work Load (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|---|
| BL00158 | 3/16 | 1-1/2 | 1 | 1/2 | 15/32 | 7/16 | 5/16 | 3/16 | 525 | 0.20 |
| BL00208 | 3/16 | 2 | 1-1/2 | 1/2 | 15/32 | 7/16 | 5/16 | 3/16 | 600 | 0.30 |
| BL00258 | 1/4 | 2-1/2 | 2 | 1/2 | 15/32 | 7/16 | 5/16 | 1/4 | 685 | 0.50 |
| BL00308 | 1/4 | 3 | 2-1/2 | 1/2 | 15/32 | 7/16 | 5/16 | 1/4 | 800 | 0.80 |
| BL00308516 | 5/16 | 3 | 2-1/2 | 1/2 | 15/32 | 7/16 | 5/16 | 5/16 | 800 | 0.80 |
| BL00358 | 5/16 | 3-1/2 | 3 | 3/4 | 11/16 | 5/8 | 15/32 | 5/16 | 1,550 | 1.30 |
| BL0035838 | 3/8 | 3-1/2 | 3 | 3/4 | 11/16 | 5/8 | 15/32 | 3/8 | 1,550 | 1.30 |
| BL00408 | 3/8 | 4 | 3-1/4 | 3/4 | 11/16 | 5/8 | 15/32 | 3/8 | 1,700 | 1.80 |
| BL00508 | 3/8 | 5 | 4-1/4 | 3/4 | 11/16 | 5/8 | 15/32 | 3/8 | 1,850 | 2.90 |

- For use with wire rope

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

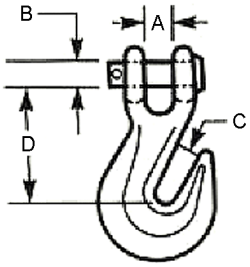
## CLEVIS GRAB HOOK • 316 STAINLESS STEEL / DROP FORGED


| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| HKCG14SUN | 1/4 | 0.37 | 0.41 | 0.34 | 1.83 | 1,500 | 0.40 |
| HKCG516SUN | 5/16 | 0.36 | 0.36 | 0.40 | 2.08 | 2,000 | 0.60 |
| HKCG38SUN | 3/8 | 0.47 | 0.43 | 0.48 | 2.55 | 2,500 | 1.05 |
| HKCG12SUN | 1/2 | 0.54 | 0.50 | 0.60 | 2.85 | 3,600 | 1.84 |

- 316 Stainless Steel & drop forged
- WLLs are based on gradual pull, not shock loads
- Includes removable clevis pin

## CLEVIS GRAB HOOK • GRADE 43 / ELECTRO GALVANIZED

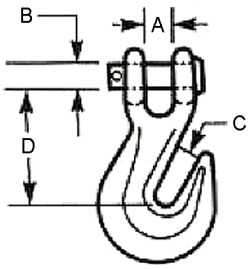




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| HKCG14CW | 1/4 | 0.38 | 0.38 | 0.34 | 1.94 | 2,600 | 0.43 |
| HKCG516CW | 5/16 | 0.44 | 0.44 | 0.41 | 2.38 | 3,900 | 0.72 |
| HKCG38CW | 3/8 | 0.56 | 0.47 | 0.50 | 2.63 | 5,400 | 1.15 |
| HKCG716CW | 7/16 | 0.58 | 0.53 | 0.59 | 3.25 | 7,200 | 1.65 |
| HKCG12CW | 1/2 | 0.69 | 0.63 | 0.66 | 3.50 | 9,200 | 2.35 |
| HKCG58CW | 5/8 | 0.84 | 0.63 | 0.81 | 4.19 | 11,500 | 4.10 |

- High Test Grade 43
- Forged steel, heat treated, plated
- Electro Galvanized or self-colored

** Do not use for overhead lifting

## CLEVIS GRAB HOOK • GRADE 70 / TRANSPORT




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| HKCG14TCW | 1/4 | 0.38 | 0.38 | 0.34 | 1.94 | 3,150 | 0.43 |
| HKCG516TCW | 5/16 | 0.44 | 0.44 | 0.41 | 2.38 | 4,700 | 0.72 |
| HKCG38TCW | 3/8 | 0.56 | 0.47 | 0.50 | 2.63 | 6,600 | 1.15 |
| HKCG12TCW | 1/2 | 0.69 | 0.63 | 0.66 | 3.50 | 11,300 | 2.35 |

- High Test Grade 43
- Forged steel, heat treated, plated
- Electro Galvanized or self-colored

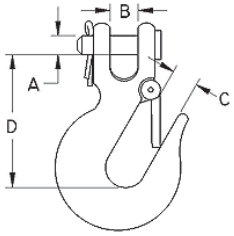
** Do not use for overhead lifting

****SEE OUR CHAIN SECTION FOR GRADE 100 & 120 COMPONENTS AND HOOKS**

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# HOOKS

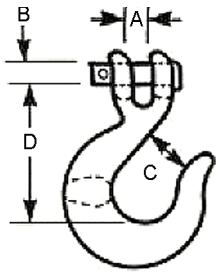
## CLEVIS SLIP HOOK • 316 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| HKCS14S | 1/4 | 0.37 | 0.41 | 0.58 | 2.57 | 1,000 | 0.57 |
| HKCS516S | 5/16 | 0.36 | 0.40 | 0.83 | 2.73 | 1,500 | 0.82 |
| HKCS38S | 3/8 | 0.47 | 0.43 | 0.95 | 3.04 | 2,000 | 1.14 |
| HKCS12S | 1/2 | 0.54 | 0.50 | 1.05 | 3.53 | 3,000 | 2.13 |

- 316 Stainless Steel & drop forged
- WLLs are based on gradual pull, not shock loads
- Includes removable latch & clevis pin

## CLEVIS SLIP HOOK • GRADE 43 / ELECTRO GALVANIZED




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| HKCS14 | 1/4 | 0.38 | 0.38 | 0.88 | 2.56 | 2,600 | 0.58 |
| HKCS516 | 5/16 | 0.44 | 0.44 | 1.00 | 2.81 | 3,900 | 0.86 |
| HKCS38 | 3/8 | 0.56 | 0.47 | 1.28 | 3.25 | 5,400 | 1.40 |
| HKCS12 | 1/2 | 0.63 | 0.56 | 1.38 | 4.00 | 9,200 | 2.20 |

- High Test Grade 43
- Forged steel, heat treated, plated
- Electro Galvanized or self-colored

* Do not use for overhead lifting

## CLEVIS SLIP HOOK • GRADE 70 / TRANSPORT

| Part # | Size (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|
| HKCS516T | 5/16 | 4,700 | 0.86 |
| HKCS38T | 3/8 | 6,600 | 1.40 |
| HKCS12T | 1/2 | 11,300 | 2.20 |

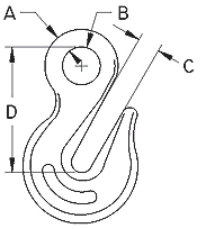
- Grade 70, Transport
- Yellow chromate finish
- Stainless steel safety latch
- Zinc plated alloy steel

** Do not use for overhead lifting

****SEE OUR CHAIN SECTION FOR GRADE 100 & 120 COMPONENTS AND HOOKS**

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

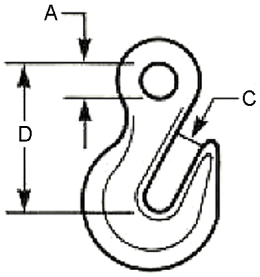
## EYE GRAB HOOK • 316 STAINLESS STEEL




| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| HKRG14SUN | 1/4 | 0.50 | 0.35 | 2.00 | 1,500 | 0.35 |
| HKRG516SUN | 5/16 | 0.56 | 0.43 | 2.25 | 2,000 | 0.56 |
| HKRG38SUN | 3/8 | 0.65 | 0.50 | 2.50 | 2,500 | 0.89 |
| HKRG12SUN | 1/2 | 0.88 | 0.66 | 3.35 | 3,600 | 1.51 |

- 316 Stainless Steel & drop forged
- WLLs are based on gradual pull, not shock loads

## EYE GRAB HOOK • GRADE 43 / ELECTRO GALVANIZED

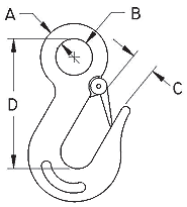



| Part # | Size (in) | A (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| HKRG14CW | 1/4 | 0.50 | 0.31 | 1.88 | 2,600 | 0.30 |
| HKRG516CW | 5/16 | 0.56 | 0.44 | 2.25 | 3,900 | 0.57 |
| HKRG38CW | 3/8 | 0.69 | 0.50 | 2.56 | 5,400 | 0.95 |
| HKRG12CW | 1/2 | 0.88 | 0.59 | 3.50 | 9,200 | 2.14 |

- High Test Grade 43
- Forged steel, heat treated, plated
- Electro Galvanized or sef-colored

* Do not use for overhead lifting

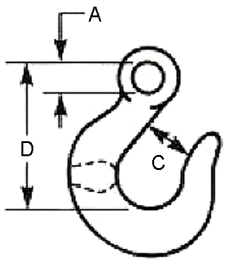
## EYE SLIP HOOK • 316 STAINLESS STEEL /FORGED




| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| HKRS14S | 1/4 | 0.53 | 0.68 | 2.54 | 1,000 | 0.30 |
| HKRS516S | 5/16 | 0.65 | 0.75 | 3.00 | 1,500 | 0.54 |
| HKRS38S | 3/8 | 0.71 | 0.80 | 3.28 | 2,000 | 0.91 |
| HKRS12S | 1/2 | 0.94 | 1.02 | 4.17 | 3,000 | 1.87 |

- 316 Stainless Steel & drop forged
- WLLs are based on gradual pull, not shock loads
- Includes removable latch

## EYE SLIP HOOK • GRADE 43 / ELECTRO GALVANIZED




| Part # | Size (in) | A (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| HKRS14CW | 1/4 | 0.50 | 0.69 | 2.00 | 1,950 | 0.36 |
| HKRS516CW | 5/16 | 0.75 | 1.00 | 2.56 | 2,875 | 0.60 |
| HKRS38CW | 3/8 | 0.75 | 1.06 | 3.00 | 4,000 | 0.91 |
| HKRS12CW | 1/2 | 1.06 | 1.38 | 4.13 | 6,500 | 1.94 |

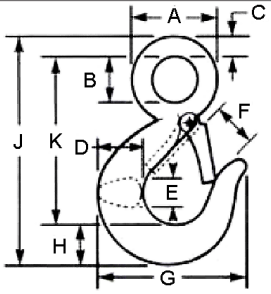
- High Test, Grade 43
- Forged steel, heat treated, plated
- Electro galvanized or self-colored

* Do not use for overhead lifting

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# HOOKS

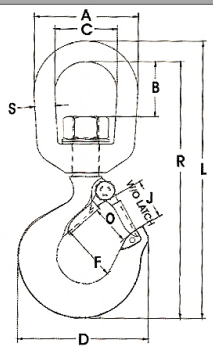
## EYE HOIST HOOK W/ STAINLESS STEEL SAFETY LATCH • CARBON OR ALLOY




- Carbon or alloy steel, forged
- Painted
- Available with or without latches
- Hot galvanized carbon eye hooks with latch available thru 2 tons
- Working Load Limit applies only when the load is applied to the center of the saddle of the hook

| Part # | | Size (WLL in tons) | | Dimensions (in) | | | | | | | | | | Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Carbon | Alloy | Carbon | Alloy | A | B | C | D | E | F | G | H | J | K | |
| HKH34C | HKH1A | 0.75 | 1.00 | 1.50 | 0.75 | 0.38 | 0.88 | 0.63 | 0.94 | 2.88 | 0.75 | 4.38 | 3.25 | 0.60 |
| HKH1C | HKH112A | 1.00 | 1.50 | 1.75 | 0.88 | 0.44 | 1.00 | 0.69 | 1.06 | 3.13 | 0.81 | 4.88 | 3.63 | 0.82 |
| HKH112C | HKH2A | 1.50 | 2.00 | 2.00 | 1.13 | 0.44 | 1.19 | 0.81 | 1.06 | 3.50 | 1.00 | 5.50 | 4.13 | 1.44 |
| HKH2C | HKH3A | 2.00 | 3 .00 | 2.38 | 1.25 | 0.59 | 1.38 | 0.94 | 1.22 | 3.94 | 1.19 | 6.31 | 4.56 | 1.94 |
| HKH3C | HKH5A | 3.00 | 5 .00 | 3.00 | 1.56 | 0.69 | 1.63 | 1.19 | 1.50 | 5.00 | 1.50 | 7.94 | 5.75 | 3.94 |
| HKH5C | HKH7A | 5.00 | 7 .00 | 3.81 | 2.00 | 0.88 | 2.06 | 1.50 | 1.88 | 6.25 | 1.75 | 10.00 | 7.38 | 7.75 |
| HKH712C | HKH11A | 7.50 | 11 .00 | 4.69 | 2.44 | 1.13 | 2.63 | 1.63 | 2.25 | 7.56 | 2.25 | 12.44 | 9.06 | 15.4 |
| - | HKH15A | - | 15.00 | 5.37 | 2.84 | 1.26 | 2.94 | 2.19 | 2.51 | 8.30 | 2.59 | 13.93 | 10.07 | 22.2 |
| - | HKH22A | - | 22 .00 | 6.64 | 3.50 | 1.58 | 3.50 | 2.69 | 3.30 | 10.3 | 3.00 | 17.06 | 12.50 | 37.6 |

## SWIVEL EYE SLIP HOOK • CARBON OR ALLOY



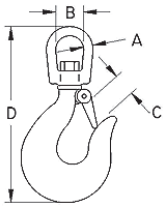

- Forged , quenched & tempered
- Proper design, careful forging, and precision controlled quench and tempering gives maximum strength without excessive weight and bulk
- Can be equipped with a latch

Note: This hook is a positioning device and is not intended to rotate under load.

| Part # | | Size (WLL in tons) | | Dimensions (in) | | | | | | | | | | Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Carbon | Alloy | Carbon | Alloy | A | B | C | D | F | J | L | O | R | S | |
| - | HKHSW1A | - | 1.00 | 2.00 | 0.82 | 1.25 | 2.86 | 1.25 | 0.93 | 5.66 | 0.93 | 4.55 | 0.38 | 0.75 |
| HKHSW1C | HKHSW112A | 1.00 | 1.50 | 2.50 | 1.31 | 1.50 | 3.15 | 1.38 | 0.97 | 6.71 | 0.97 | 5.37 | 0.50 | 1.25 |
| HKHSW112C | HKHSW2A | 1.50 | 2.00 | 3.00 | 1.50 | 1.75 | 3.59 | 1.50 | 1.06 | 7.75 | 1.06 | 6.12 | 0.63 | 2.25 |
| HKHSW2C | HKHSW3A | 2.00 | 3.00 | 3.00 | 1.50 | 1.75 | 4.00 | 1.62 | 1.19 | 8.25 | 1.16 | 6.50 | 0.63 | 2.30 |
| HKHSW3C | HKHSW5A | 3.00 | 5.00 | 3.50 | 1.64 | 2.00 | 4.84 | 2.00 | 1.50 | 9.69 | 1.41 | 7.50 | 0.75 | 4.96 |
| HKHSW5C | HKHSW7A | 5.00 | 7.00 | 4.56 | 2.29 | 2.50 | 6.28 | 2.50 | 1.78 | 12.47 | 1.69 | 9.63 | 1.00 | 10.29 |
| HKHSW712C | HKHSW11A | 7.50 | 11.00 | 5.00 | 2.53 | 2.75 | 7.54 | 3.00 | 2.41 | 14.75 | 2.22 | 11.37 | 1.13 | 16.18 |
| HKHSW10C | HKHSW15A | 10.00 | 15.00 | 5.62 | 2.48 | 3.12 | 8.34 | 3.25 | 2.62 | 16.40 | 2.41 | 12.25 | 1.25 | 23.25 |
| HKHSW15C | - | 15.00 | - | 7.10 | 3.76 | 4.10 | 10.34 | 4.25 | 3.41 | 21.34 | 3.19 | 16.71 | 1.50 | 47.00 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

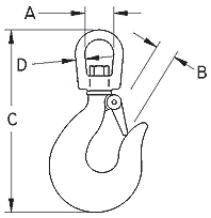
## SWIVEL EYE HOOK • 316 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S04550100 | 4 | 1/4 | 0.86 | 0.69 | 4.64 | 770 | 0.40 |
| S04550120 | 5 | 5/16 | 1.09 | 0.75 | 5.50 | 1,430 | 0.70 |
| S04550150 | 6 | 3/8 | 1.10 | 0.75 | 6.29 | 2,200 | 1.15 |
| S04550200 | 8 | 1/2 | 1.41 | 1.15 | 7.78 | 3,300 | 2.30 |

- 316 Stainless Steel
- WLLs are based on gradual pull, not shock loads
- Includes removable latch
- Stamped with size & WLL in kg (Conversion: kg x 2.2 = lb)

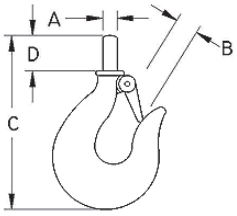
## SWIVEL EYE HOOK • 316-NM STAINLESS STEEL




| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S04570140 | 1.24 | 0.84 | 5.58 | 0.40 | 1,000 | 0.88 |
| S04570170 | 1.47 | 0.88 | 6.52 | 0.53 | 1,500 | 1.44 |
| S04570180 | 1.70 | 0.94 | 7.65 | 0.65 | 2,000 | 2.28 |
| S04570210 | 1.69 | 1.07 | 8.12 | 0.64 | 2,500 | 2.60 |

- 316-NM Stainless Steel
- Heavy duty swivel hook with drop forged components
- Load rated for overhead lifting
- Includes removable safety latch

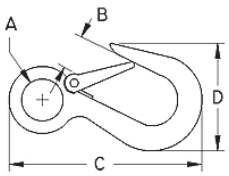
## SHANK HOOK • 316-NM STAINLESS STEEL




| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S04560100 | 1/2 | 0.84 | 5.06 | 2.00 | 1,000 | 0.66 |
| S04560120 | 5/8 | 0.88 | 5.53 | 2.25 | 1,500 | 0.90 |
| S04560150 | 3/4 | 0.94 | 6.25 | 2.50 | 2,000 | 1.34 |
| S04560200 | 7/8 | 1.07 | 6.90 | 2.75 | 2,500 | 1.86 |

- 316-NM Stainless Steel
- Load rated
- Can be threaded to your application on special order
- Includes removable safety latch

## EYE HOOK • 316 STAINLESS STEEL



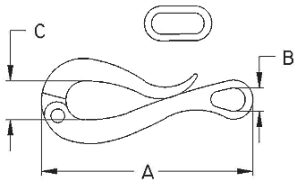

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SNS231134 | 3/4 | 0.66 | 3.90 | 1.88 | 300 | 0.27 |
| SNS2311118 | 1-1/8 | 0.77 | 4.62 | 2.10 | 350 | 0.39 |

- 316 Stainless Steel & Precison cast
- WLLs are based on gradual pull, not shock loads
- Includes removable safety latch

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# HOOKS

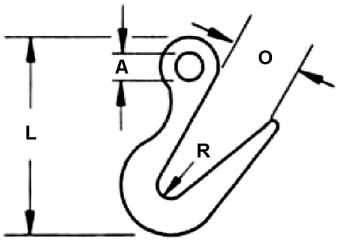
## PELICAN HOOK WITH SLIDE • 316 STAINLESS STEEL




| Part # | A (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| HKPS4 | 4 | 0.39 | 0.75 | 200 | 0.22 |
| HKPS6 | 6 | 0.51 | 0.97 | 300 | 0.56 |

- 316 Stainless Steel

## SORTING HOOK • DROP-FORGED ALLOY




| Part # | A (in) | L (in) | O (in) | R (in) | WLL at Tip (tons) | WLL at Bottom (tons) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| HKS1N | 1.38 | 9.69 | 2.81 | 0.63 | 2 | 7.50 | 6.00 |

- Drop-forged alloy steel
- Heat treated for maximum strength & toughness
- Painted

## DEVIL'S CLAW HOOK

Eye Clevis

| Part # | Style | Max. Width (in) | Length (in) | WLL (lb) |
|---|---|---|---|---|
| HKDCE | Eye | 2-5/32 | 4-3/16 | 6,600 |
| HKDCC | Clevis | 2-5/32 | 4-1/8 | 6,600 |

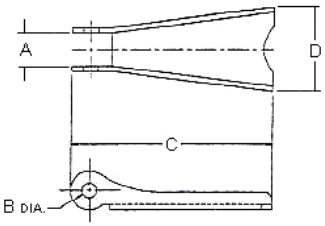
- Especially designed for easy hook-up to loose or taut chain with one hand connection
- Drop forged from special bar quality steel
- Heat treated for greater strength and increased wear characteristics
- Allows full joint strength when used with high test grade 43 or transport grade 70 chain
- Clear protective finish resists rust and provides cleaner handling
- For use with 3/8" G43 or G70 chain

## TRANSPORT HOOKS ("J, R & T" HOOKS)


| Part # | Description | WLL (lb) | Wt (lb) |
|---|---|---|---|
| HK-J | J-Hook - Auto Transport | 4,000 | 0.80 |
| HK-R | R-Hook - Auto Transport | 8,333 | 0.50 |
| HK-T | T-Hook - Auto Transport | 5,300 | 0.80 |
| HK-RTJ | RTJ-Hook cluster - Auto Transport | 4,000 | 2.25 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## LATCH KIT • STAINLESS STEEL




- Stainless Steel latch kits for our Eye Slip Hooks

| Part # | Hook Size (WLL in tons) | | Dimensions (in) | | | | Wt (lb) |
|---|---|---|---|---|---|---|---|
| | Carbon | Alloy | A | B | C | D | |
| LATCH34TC | 3/4 | 1 | 0.38 | 0.16 | 1.44 | 0.59 | 0.02 |
| LATCH1TC | 1 | 1-1/2 | 0.38 | 0.16 | 1.60 | 0.59 | 0.02 |
| LATCH112TC | 1-1/2 | 2 | 0.47 | 0.17 | 1.84 | 0.82 | 0.03 |
| LATCH2TC | 2 | 3 | 0.47 | 0.17 | 1.84 | 0.82 | 0.03 |
| LATCH3TC | 3 | 5 | 0.56 | 0.19 | 2.41 | 1.00 | 0.05 |
| LATCH5TC | 5 | 7 | 0.58 | 0.20 | 2.97 | 1.21 | 0.09 |
| LATCH712TC | 7-1/2 | 11 | 0.59 | 0.27 | 3.66 | 1.50 | 0.17 |
| LATCH10TC | 10 | 15 | - | - | - | - | - |





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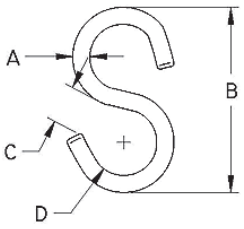
www.imakerope.com | email:sales@imakerope.com

# HOOKS

## "S" HOOK




- Bulk orders of other sizes or types may be placed on special order

**HOT DIP GALVANIZED**

| Part # | Size (in) | Length (in) | Pcs Per Pkg. | Wt per 100 Pcs (lb) |
|---|---|---|---|---|
| WC2671414 | 1/4 | 2-1/4 | 40 | 7 |
| WC26714516 | 5/16 | 2-3/4 | 20 | 14-1/2 |
| WC2671438 | 3/8 | 3 | 20 | 18-3/4 |
| WC2671412 | 1/2 | 4 | 10 | 5 |

**STAINLESS STEEL**

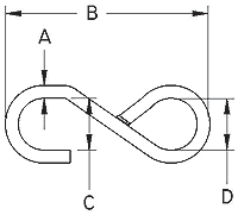
| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S01780003 | 1/8 | 1.38 | 0.20 | 0.42 | 50 | 0.01 |
| S01780004 | 5/32 | 1.59 | 0.20 | 0.51 | 80 | 0.02 |
| S01780005 | 3/16 | 1.90 | 0.29 | 0.63 | 120 | 0.04 |
| S01780006 | 1/4 | 2.25 | 0.32 | 0.70 | 200 | 0.06 |
| S01780008 | 5/16 | 2.58 | 0.46 | 0.75 | 350 | 0.12 |

**ELECTRO GALVANIZED**

| Part # | Size (in) | Length (in) | Hook Dia. (in) | Hook Open (in) | Max. Load (lb) | Wt per 100 Pcs (lb) |
|---|---|---|---|---|---|---|
| HKSEG18 | 1/8 | 1-1/4 | 3/8 | 3/16 | 17 | 7/8 |
| HKSEG316 | 3/16 | 1-3/4 | 1/2 | 1/4 | 40 | 2-3/4 |
| HKSEG14 | 1/4 | 2-1/2 | 3/4 | 7/16 | 70 | 7-3/8 |
| HKSEG516 | 5/16 | 3 | 7/8 | 1/2 | 132 | 13-3/4 |
| HKSEG38 | 3/8 | 3-1/2 | 1 | 1/2 | 170 | 23-1/4 |

- Low carbon cold drawn steel wire with blunt ends

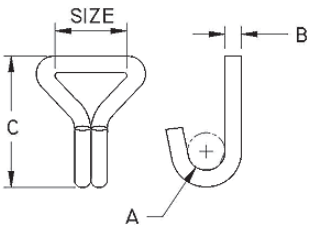
## WELDED "S" WEB HOOK • 316 STAINLESS STEEL




- 316 Stainless Steel
- Welded to prevent webbing from slipping through

| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S02120025 | 1 | 0.25 | 4.00 | 1.00 | 1.00 | 200 | 0.12 |
| S02120038 | 1-1/2 | 0.31 | 4.50 | 1.50 | 1.50 | 300 | 0.22 |
| S02120050 | 2 | 0.38 | 6.18 | 2.25 | 2.00 | 400 | 0.46 |

## DOUBLE "J" WEB HOOK • 316 STAINLESS STEEL

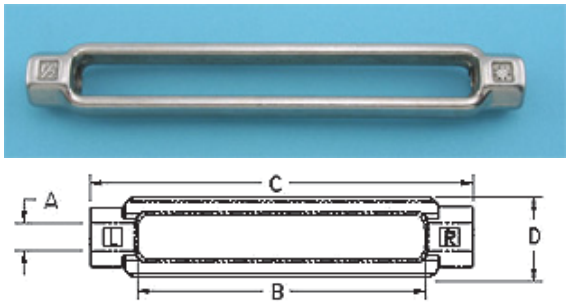



- 316 Stainless Steel
- Wire formed

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S02110025 | 1 | 0.78 | 0.27 | 2.77 | 400 | 0.15 |
| S02110038 | 1-1/2 | 0.78 | 0.38 | 3.44 | 1,500 | 0.40 |
| S02110050 | 2 | 0.78 | 0.38 | 3.44 | 1,500 | 0.41 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

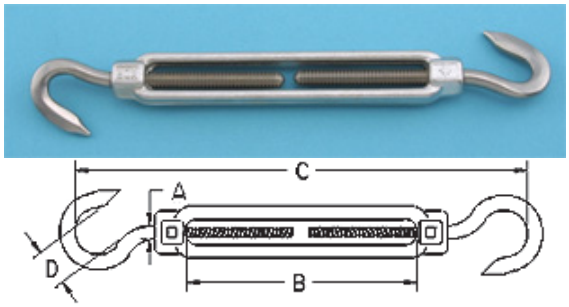
## TURNBUCKLE BODY • 316-NM STAINLESS STEEL & DROP FORGED




- 316-NM Stainless Steel
- Drop forged
- Meets WLL & dimensions of ASTM specification F1145-92, Type 1

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0106BD07 | 1/4 | 4.00 | 4.75 | 0.72 | 500 | 0.15 |
| S0106BD08 | 5/16 | 4.50 | 5.50 | 0.82 | 800 | 0.25 |
| S0106BD10 | 3/8 | 6.00 | 7.13 | 0.97 | 1,200 | 0.35 |
| S0106BD13 | 1/2 | 6.00 | 7.50 | 1.16 | 2,200 | 0.55 |
| S0106BD16 | 5/8 | 6.00 | 7.81 | 1.38 | 3,500 | 0.90 |
| S0106BD20 | 3/4 | 6.00 | 8.19 | 1.69 | 5,200 | 1.15 |
| S0106BD25 | 1 | 6.00 | 9.00 | 2.31 | 8,000 | 2.69 |
| S0106BD251 | 1 | 12.00 | 14.81 | 2.31 | 8,000 | 4.17 |
| S0106BD321 | 1-1/4 | 12.00 | 15.13 | 2.62 | 12,500 | 5.90 |

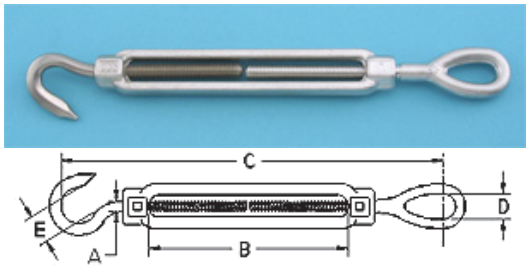
## HOOK & HOOK TURNBUCKLE • 316-NM STAINLESS STEEL & DROP FORGED




- 316-NM Stainless Steel
- Body is drop forged
- Hooks are formed & cold forged
- Meets WLL & dimensions of ASTM specification F1145-92, Type 1, class F

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0111HH07 | 1/4 | 4.00 | 6.87 | 0.39 | 300 | 0.22 |
| S0111HH08 | 5/16 | 4.50 | 7.75 | 0.44 | 500 | 0.35 |
| S0111HH10 | 3/8 | 6.00 | 10.37 | 0.52 | 750 | 0.60 |
| S0111HH13 | 1/2 | 6.00 | 10.50 | 0.55 | 1,050 | 1.10 |
| S0111HH16 | 5/8 | 6.00 | 14.25 | 0.57 | 1,600 | 1.90 |
| S0111HH20 | 3/4 | 6.00 | 14.25 | 0.90 | 2,000 | 2.75 |

## HOOK & EYE TURNBUCKLE • 316-NM STAINLESS STEEL & DROP FORGED



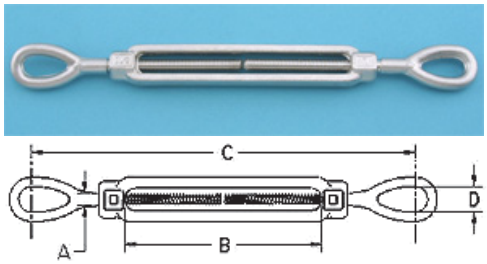

- 316-NM Stainless Steel
- Bodies & eye are drop forged
- Hooks are formed & cold forged
- Meets WLL & dimensions of ASTM specification F1145-92, Type 1, class F

| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S0110HE07 | 1/4 | 4.00 | 7.50 | 0.33 | 0.39 | 300 | 0.25 |
| S0110HE08 | 5/16 | 4.50 | 8.50 | 0.41 | 0.44 | 500 | 0.45 |
| S0110HE10 | 3/8 | 6.00 | 10.75 | 0.51 | 0.52 | 750 | 0.67 |
| S0110HE13 | 1/2 | 6.00 | 12.00 | 0.75 | 0.55 | 1,050 | 1.20 |
| S0110HE16 | 5/8 | 6.00 | 13.50 | 0.87 | 0.57 | 1,600 | 2.10 |
| S0110HE20 | 3/4 | 6.00 | 15.50 | 1.00 | 0.90 | 2,000 | 3.00 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# TURNBUCKLES

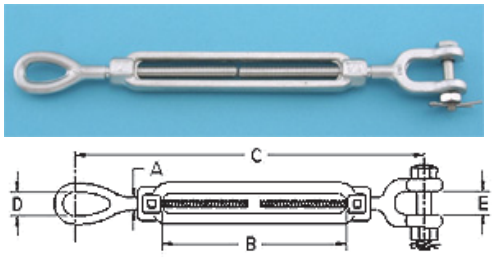
## EYE & EYE TURNBUCKLE • 316-NM STAINLESS STEEL & DROP FORGED




- 316-NM Stainless Steel
- Drop Forged
- Meets WLL & dimensions of ASTM specification F1145-92, Type 1, class D

| Part # | A/ Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0107EE07 | 1/4 | 4.00 | 8.00 | 0.33 | 500 | 0.30 |
| S0107EE08 | 5/16 | 4.50 | 9.25 | 0.41 | 800 | 0.50 |
| S0107EE10 | 3/8 | 6.00 | 11.50 | 0.50 | 1,200 | 0.85 |
| S0107EE13 | 1/2 | 6.00 | 13.00 | 0.75 | 2,200 | 1.30 |
| S0107EE16 | 5/8 | 6.00 | 14.50 | 0.87 | 3,500 | 2.30 |
| S0107EE20 | 3/4 | 6.00 | 16.25 | 1.00 | 5,200 | 3.50 |
| S0107EE25 | 1 | 6.00 | 20.00 | 1.38 | 8,000 | 8.85 |
| S0107EE251 | 1 | 12.00 | 25.50 | 1.38 | 8,000 | 10.91 |
| S0107EE321 | 1-1/4 | 12.00 | 28.38 | 1.71 | 12,500 | 17.60 |

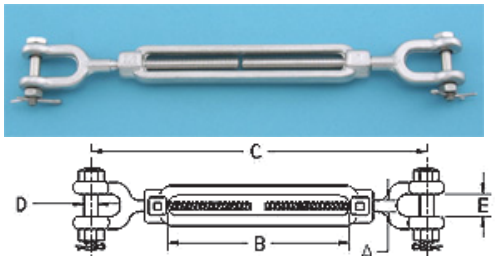
## EYE & JAW TURNBUCKLE • 316-NM STAINLESS STEEL & DROP FORGED




- 316-NM Stainless Steel
- Drop forged
- Meets WLL & dimensions of ASTM specification F1145-92, Type 1, class H

| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S0109JE07 | 1/4 | 4.00 | 7.88 | 0.33 | 0.44 | 500 | 0.35 |
| S0109JE08 | 5/16 | 4.50 | 9.25 | 0.41 | 0.50 | 800 | 0.60 |
| S0109JE10 | 3/8 | 6.00 | 11.00 | 0.50 | 0.56 | 1,200 | 0.80 |
| S0109JE13 | 1/2 | 6.00 | 12.50 | 0.75 | 0.63 | 2,200 | 1.55 |
| S0109JE16 | 5/8 | 6.00 | 14.00 | 0.87 | 0.75 | 3,500 | 2.69 |
| S0109JE20 | 3/4 | 6.00 | 15.63 | 1.00 | 1.00 | 5,200 | 4.00 |
| S0109JE25 | 1 | 6.00 | 19.00 | 1.38 | 1.25 | 8,000 | 9.66 |
| S0109JE251 | 1 | 12.00 | 25.00 | 1.38 | 1.25 | 8,000 | 11.79 |
| S0109JE321 | 1-1/4 | 12.00 | 27.50 | 1.71 | 1.88 | 12,500 | 19.96 |

## JAW & JAW TURNBUCKLE • 316-NM STAINLESS STEEL & DROP FORGED

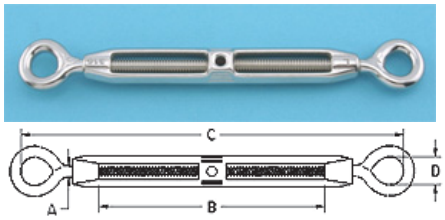



- 316-NM Stainless Steel
- Drop forged
- Meets WLL & dimensions of ASTM specification F1145-92, Type 1, class G

| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S0108JJ07 | 1/4 | 4.00 | 7.75 | 0.25 | 0.44 | 500 | 0.45 |
| S0108JJ08 | 5/16 | 4.50 | 9.00 | 0.25 | 0.50 | 800 | 0.65 |
| S0108JJ10 | 3/8 | 6.00 | 10.63 | 0.31 | 0.56 | 1,200 | 0.90 |
| S0108JJ13 | 1/2 | 6.00 | 12.00 | 0.38 | 0.63 | 2,200 | 1.60 |
| S0108JJ16 | 5/8 | 6.00 | 13.50 | 0.50 | 0.75 | 3,500 | 3.05 |
| S0108JJ20 | 3/4 | 6.00 | 15.00 | 0.63 | 1.00 | 5,200 | 4.25 |
| S0108JJ25 | 1 | 6.00 | 18.00 | 0.88 | 1.25 | 8,000 | 10.59 |
| S0108JJ251 | 1 | 12.00 | 24.00 | 0.88 | 1.25 | 8,000 | 12.66 |
| S0108JJ321 | 1-1/4 | 12.00 | 26.63 | 1.13 | 1.88 | 12,500 | 22.32 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

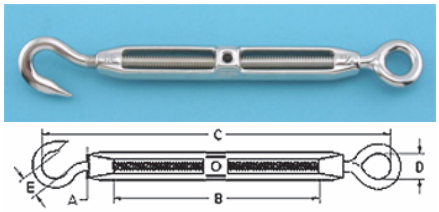
## EYE & EYE TURNBUCKLE • 316 STAINLESS STEEL & PRECISION CAST




- 316 Stainless Steel, manufactured by Suncor
- Threads are standard UNC
- Most economical turnbuckle with precision cast body
- Similar imported turnbuckles available: TBSSEE

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0154EE05 | 3/16 | 2.50 | 5.19 | 0.38 | 300 | 0.08 |
| S0154EE07 | 1/4 | 3.00 | 5.90 | 0.44 | 440 | 0.18 |
| S0154EE08 | 5/16 | 4.00 | 7.00 | 0.50 | 800 | 0.33 |
| S0154EE10 | 3/8 | 6.00 | 10.25 | 0.65 | 1,200 | 0.68 |
| S0154EE13 | 1/2 | 6.00 | 10.81 | 0.75 | 2,200 | 1.31 |
| S0154EE16 | 5/8 | 8.00 | 14.32 | 0.87 | 2,800 | 2.40 |
| S0154EE20 | 3/4 | 10.00 | 17.31 | 1.10 | 3,500 | 4.33 |

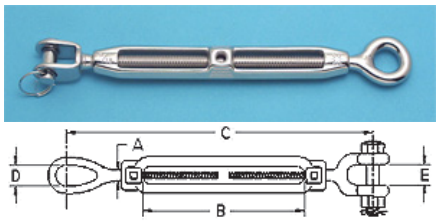
## HOOK & EYE TURNBUCKLE • 316 STAINLESS STEEL & PRECISION CAST




- 316 Stainless Steel, manufactured by Suncor
- Threads are standard UNC
- Most economical turnbuckle with precision cast body
- Similar imported turnbuckles available: TBSSHE

| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) |
|---|---|---|---|---|---|---|
| S0154HE05 | 3/16 | 2.50 | 5.12 | 0.38 | 0.30 | 100 |
| S0154HE07 | 1/4 | 3.00 | 5.87 | 0.44 | 0.38 | 200 |
| S0154HE08 | 5/16 | 4.00 | 7.12 | 0.50 | 0.44 | 400 |
| S0154HE10 | 3/8 | 6.00 | 10.25 | 0.65 | 0.50 | 700 |
| S0154HE13 | 1/2 | 6.00 | 11.62 | 0.75 | 0.63 | 1,000 |
| S0154HE16 | 5/8 | 8.00 | 14.50 | 0.87 | 0.63 | 1,600 |
| S0154HE20 | 3/4 | 10.00 | 17.00 | 1.10 | 0.85 | 2,000 |

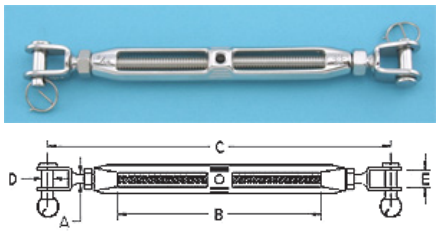
## JAW & EYE TURNBUCKLE • 316 STAINLESS STEEL & PRECISION CAST




- 316 Stainless Steel, manufactured by Suncor
- Threads are standard UNC
- Most economical turnbuckle with precision cast body
- Similar imported turnbuckles available: TBSSJE

| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) |
|---|---|---|---|---|---|---|
| S0154JE05 | 3/16 | 2.50 | 5.12 | 0.38 | 0.30 | 100 |
| S0154JE07 | 1/4 | 3.00 | 5.87 | 0.44 | 0.38 | 200 |
| S0154JE08 | 5/16 | 4.00 | 7.12 | 0.50 | 0.44 | 400 |
| S0154JE10 | 3/8 | 6.00 | 10.25 | 0.65 | 0.50 | 700 |

## JAW & JAW TURNBUCKLE • 316 STAINLESS STEEL & PRECISION CAST




- 316 Stainless Steel, manufactured by Suncor
- Threads are standard UNC
- Most economical turnbuckle with precision cast body
- Similar imported turnbuckles available: TBSSJJ

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S01050005 | 3/16 | 2.50 | 4.81 | 0.18 | 0.30 | 300 |
| S01050007 | 1/4 | 3.00 | 5.75 | 0.22 | 0.38 | 440 |
| S01050008 | 5/16 | 4.00 | 7.12 | 0.30 | 0.40 | 800 |
| S01050010 | 3/8 | 6.00 | 10.00 | 0.37 | 0.46 | 1,200 |
| S01050013 | 1/2 | 6.00 | 11.00 | 0.46 | 0.59 | 2,200 |
| S01050016 | 5/8 | 8.00 | 14.50 | 0.63 | 0.69 | 2,800 |
| S01050020 | 3/4 | 10.00 | 18.00 | 0.73 | 0.76 | 3,500 |



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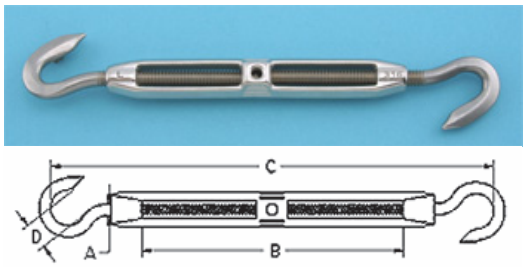
# TURNBUCKLES

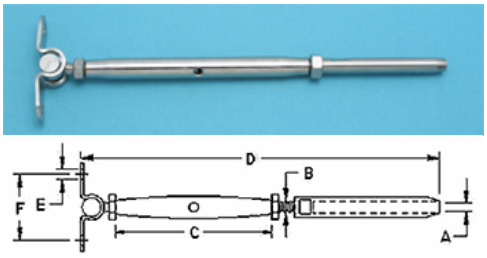
## HOOK & HOOK TURNBUCKLE • 316 STAINLESS STEEL & PRECISION CAST




| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0154HH05 | 3/16 | 2.50 | 4.94 | 0.30 | 100 | 0.07 |
| S0154HH07 | 1/4 | 3.00 | 6.18 | 0.38 | 200 | 0.17 |
| S0154HH08 | 5/16 | 4.00 | 7.56 | 0.44 | 400 | 0.32 |
| S0154HH10 | 3/8 | 6.00 | 10.38 | 0.50 | 700 | 0.66 |
| S0154HH13 | 1/2 | 6.00 | 10.62 | 0.63 | 1,000 | 1.26 |
| S0154HH16 | 5/8 | 8.00 | 14.38 | 0.63 | 1,500 | 2.30 |
| S0154HH20 | 3/4 | 10.00 | 16.87 | 1.10 | 2,000 | 3.85 |

- 316 Stainless Steel
- Threads are standard UNC
- Most economical turnbuckle with precision cast body
- Similar imported turnbuckles available: TBSSHH

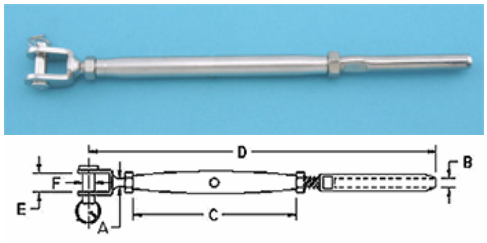
## WALL MOUNT & SWAGE • 316 STAINLESS STEEL & CLOSED BODY




| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | F (in) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S07840703 | 1/8 | 1/4 | 4.20 | 7.25 | 0.25 | 1.58 | 0.25 |
| S07840704 | 5/32 | 1/4 | 4.20 | 7.50 | 0.25 | 1.58 | 0.28 |
| S07840705 | 3/16 | 1/4 | 4.20 | 8.00 | 0.25 | 1.58 | 0.32 |

- 316 Stainless Steel
- Body is machined from tubing
- Threads are standard UNC
- Machine swage only

## JAW & SWAGE • 316 STAINLESS STEEL & CLOSED BODY

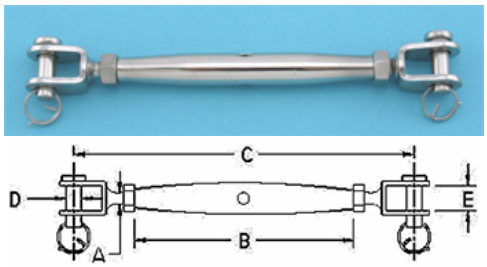



| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | F (in) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S07810703 | 1/4 | 1/8 | 4.20 | 7.50 | 0.38 | 0.22 | 0.19 |
| S07810704 | 1/4 | 5/32 | 4.20 | 7.75 | 0.38 | 0.22 | 0.21 |
| S07810904 | 5/16 | 5/32 | 4.32 | 8.19 | 0.40 | 0.30 | 0.35 |
| S07810905 | 5/16 | 3/16 | 4.32 | 8.56 | 0.40 | 0.30 | 0.37 |
| S07811005 | 3/8 | 3/16 | 4.90 | 9.25 | 0.46 | 0.37 | 0.53 |
| S07811007 | 3/8 | 1/4 | 4.90 | 10.00 | 0.46 | 0.37 | 0.60 |
| S07811307 | 1/2 | 1/4 | 5.87 | 11.87 | 0.59 | 0.46 | 1.09 |
| S07811309 | 1/2 | 5/16 | 5.87 | 12.62 | 0.59 | 0.46 | 1.21 |
| S07811610 | 5/8 | 3/8 | 7.48 | 15.00 | 0.70 | 0.55 | 2.50 |
| S07812013 | 3/4 | 1/2 | 8.66 | 17.40 | 0.94 | 0.75 | 4.20 |

- 316 Stainless Steel
- Presision machined and stamped
- Other configurations are available
- Threads are UNF
- Machine swage only

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

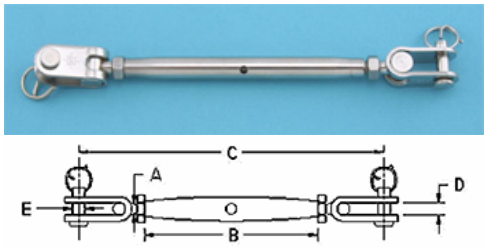
## JAW & JAW • 316 STAINLESS STEEL & CLOSED BODY




| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) |
|---|---|---|---|---|---|---|
| S01010005 | 3/16 | 3.13 | 4.75 | 0.18 | 0.30 | 300 |
| S01010007 | 1/4 | 3.50 | 5.50 | 0.22 | 0.38 | 440 |
| S01010008 | 5/16 | 4.31 | 6.25 | 0.30 | 0.40 | 800 |
| S01010010 | 3/8 | 4.87 | 7.75 | 0.37 | 0.46 | 1,200 |
| S01010013 | 1/2 | 5.80 | 9.50 | 0.46 | 0.59 | 2,200 |
| S01010016 | 5/8 | 7.50 | 12.00 | 0.60 | 0.65 | 2,800 |

- 316 Stainless Steel
- Closed body that is machined from tubing
- Ideal for architectural applications
- Threads are standard UNC
- Jaws are formed and welded

## TOGGLE & TOGGLE • 316 STAINLESS STEEL & CLOSED BODY

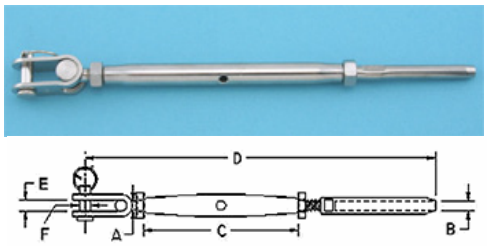



| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) |
|---|---|---|---|---|---|---|
| S07830005 | 3/16 | 3.56 | 6.00 | 0.26 | 0.19 | 240 |
| S07830007 | 1/4 | 4.20 | 6.87 | 0.35 | 0.23 | 550 |
| S07830008 | 5/16 | 4.32 | 7.63 | 0.40 | 0.31 | 860 |
| S07830010 | 3/8 | 4.90 | 9.12 | 0.56 | 0.37 | 1,700 |
| S07830013 | 1/2 | 5.87 | 10.87 | 0.63 | 0.47 | 2,060 |
| S07830016 | 5/8 | 7.50 | 16.25 | 0.80 | 0.62 | 2,800 |

- 316 Stainless Steel
- Closed Body
- Presision Machined and Stamped
- Ideal for architectural & marine applications

- Body is machined from tubing
- Toggles are formed
- Threads are standard UNF

## TOGGLE & SWAGE • 316 STAINLESS STEEL & CLOSED BODY




| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | F (in) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S07820501 | 3/16 | 1/16 | 3.56 | 6.62 | 0.26 | 0.19 | 0.14 |
| S07820502 | 3/16 | 3/32 | 3.56 | 6.87 | 0.26 | 0.19 | 0.14 |
| S07820702 | 1/4 | 3/32 | 4.20 | 7.62 | 0.35 | 0.23 | 0.22 |
| S07820703 | 1/4 | 1/8 | 4.20 | 7.87 | 0.35 | 0.23 | 0.25 |
| S07820704 | 1/4 | 5/32 | 4.20 | 8.12 | 0.35 | 0.23 | 0.27 |
| S07820904 | 5/16 | 5/32 | 4.32 | 8.56 | 0.40 | 0.31 | 0.40 |
| S07820905 | 5/16 | 3/16 | 4.32 | 9.00 | 0.40 | 0.31 | 0.43 |
| S07821005 | 3/8 | 3/16 | 4.90 | 9.75 | 0.56 | 0.37 | 0.64 |
| S07821007 | 3/8 | 1/4 | 4.90 | 10.44 | 0.56 | 0.37 | 0.69 |
| S07821307 | 1/2 | 1/4 | 5.87 | 12.25 | 0.63 | 0.47 | 1.32 |
| S07821309 | 1/2 | 5/16 | 5.87 | 13.00 | 0.63 | 0.47 | 1.50 |
| S07821610 | 5/8 | 3/8 | 7.50 | 17.00 | 0.80 | 0.62 | 2.69 |

- 316 Stainless Steel
- Closed body
- Presision machined and stamped
- Other configurations are available
- Threads are UNF
- Machine swage only

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

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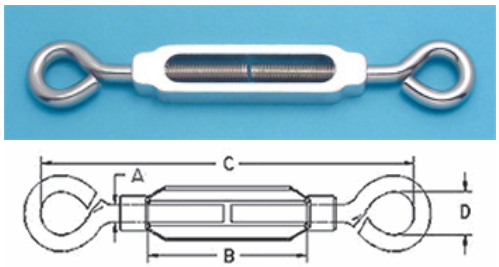
# TURNBUCKLES

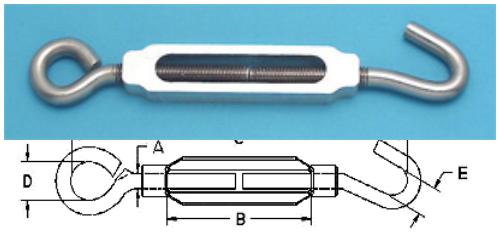
## EYE & EYE TURNBUCKLE • 304 STAINLESS STEEL ENDS / ALUMINUM BODY




| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| A0154EE05A | 3/16 | 1.61 | 3.72 | 0.31 | 70 | 0.04 |
| A0154EE07A | 1/4 | 2.04 | 4.98 | 0.52 | 160 | 0.12 |
| A0154EE08A | 5/16 | 2.62 | 5.88 | 0.49 | 230 | 0.20 |
| A0154EE10A | 3/8 | 2.98 | 7.40 | 0.63 | 300 | 0.38 |

- Lowest cost turnbuckle
- Body is aluminum & precision machined
- Ends are 304 stainless steel & wire formed
- Ideal for light duty applications

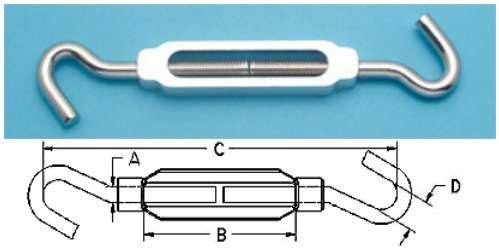
## EYE & HOOK TURNBUCKLE • 304 STAINLESS STEEL ENDS / ALUMINUM BODY




| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) |
|---|---|---|---|---|---|---|
| A0154HE05A | 3/16 | 1.61 | 3.70 | 0.31 | 0.26 | 40 |
| A0154HE07A | 1/4 | 2.04 | 5.02 | 0.52 | 0.48 | 80 |
| A54HE08A | 5/16 | 2.62 | 6.05 | 0.49 | 0.48 | 125 |
| A0154HE10A | 3/8 | 2.98 | 7.37 | 0.63 | 0.60 | 180 |

- Lowest cost turnbuckle
- Body is aluminum & precision machined
- Ends are 304 stainless steel & wire formed
- Ideal for light duty applications

## HOOK & HOOK TURNBUCKLE • 304 STAINLESS STEEL ENDS / ALUMINUM BODY

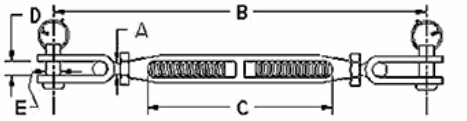



| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| A0154HH05A | 3/16 | 1.61 | 3.90 | 0.26 | 70 | 0.04 |
| A0154HH07A | 1/4 | 2.04 | 5.08 | 0.48 | 100 | 0.11 |
| A0154HH08A | 5/16 | 2.62 | 6.22 | 0.48 | 150 | 0.20 |
| A0154HH10A | 3/8 | 2.98 | 7.33 | 0.60 | 200 | 0.36 |

**• Body is aluminum (precision machined)**
**• Ends are 304 stainless steel (wire formed)**
**• Ideal for light duty applications**

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

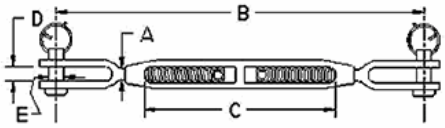
## TOGGLE & TOGGLE • SILICON BRONZE BODY / DROP FORGED




| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) |
|---|---|---|---|---|---|---|
| S07850007 | 1/4 | 7.12 | 3.50 | 0.35 | 0.23 | 550 |
| S07850009 | 5/16 | 8.25 | 3.80 | 0.40 | 0.31 | 860 |
| S07850010 | 3/8 | 9.75 | 4.40 | 0.56 | 0.37 | 1,700 |
| S07850013 | 1/2 | 11.62 | 4.62 | 0.63 | 0.47 | 2,060 |
| S07850016 | 5/8 | 16.00 | 6.00 | 0.79 | 0.62 | 2,375 |

- Drop Forged
- Body is Silicon bronze, then chromed to prevent galling
- End fittings are 316 Stainless Steel
- Threads are UNF

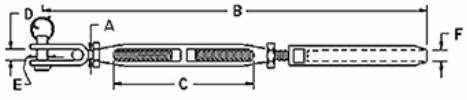
## JAW & JAW • SILICON BRONZE BODY / DROP FORGED




| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S07870007 | 1/4 | 7.25 | 3.50 | 0.25 | 0.25 | 550 | 0.30 |
| S07870009 | 5/16 | 8.50 | 3.80 | 0.31 | 0.31 | 860 | 0.45 |
| S07870010 | 3/8 | 8.87 | 4.40 | 0.38 | 0.38 | 1,700 | 0.86 |
| S07870013 | 1/2 | 10.75 | 4.62 | 0.50 | 0.50 | 2,060 | 1.62 |

- Drop Forged
- Body is Silicon bronze, then chromed to prevent galling
- End fittings are 316 Stainless Steel
- Threads are UNF
- Machine swage only

## TOGGLE & SWAGE • CHROMED BRONZE BODY & STAINLESS ENDS




| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | F/ Wire (in) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S07860703 | 1/4 | 8.37 | 3.50 | 0.35 | 0.23 | 1/8 | 0.27 |
| S07860704 | 1/4 | 8.81 | 3.50 | 0.35 | 0.23 | 5/32 | 0.28 |
| S07860705 | 1/4 | 8.87 | 3.50 | 0.35 | 0.23 | 3/16 | 0.32 |
| S07860904 | 5/16 | 9.25 | 3.80 | 0.40 | 0.31 | 5/32 | 0.42 |
| S07860905 | 5/16 | 9.62 | 3.80 | 0.40 | 0.31 | 3/16 | 0.44 |
| S07861005 | 3/8 | 11.50 | 4.40 | 0.56 | 0.37 | 3/16 | 0.77 |
| S07861007 | 3/8 | 11.50 | 4.40 | 0.56 | 0.37 | 1/4 | 0.81 |
| S07861307 | 1/2 | 13.00 | 4.62 | 0.63 | 0.47 | 1/4 | 1.48 |
| S07861309 | 1/2 | 13.75 | 4.62 | 0.63 | 0.47 | 5/16 | 1.50 |

- Drop Forged
- Body is Silicon bronze, then chromed to prevent galling
- End fittings are 316 Stainless Steel
- Threads are UNF
- Machine swage only

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

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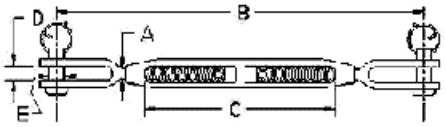
# TURNBUCKLES

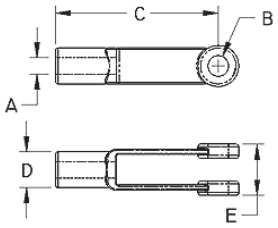
## JAW & JAW • SILICON BRONZE BODY / DROP FORGED




| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S07880007 | 1/4 | 7.25 | 3.50 | 0.25 | 0.25 | 550 | 0.30 |
| S07880009 | 5/16 | 8.50 | 3.80 | 0.31 | 0.31 | 860 | 0.45 |
| S07880010 | 3/8 | 8.87 | 4.40 | 0.38 | 0.38 | 1,700 | 0.86 |
| S07880013 | 1/2 | 10.75 | 4.62 | 0.50 | 0.50 | 2,060 | 1.62 |

- Drop Forged
- Body & End fittings are forged silicon bronze
- Threads are UNF

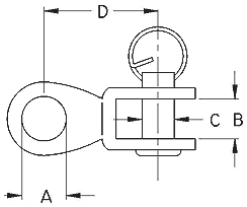
## YOKE END UNTHREADED • 316-NM STAINLESS STEEL / DROP FORGED




| Part # | A (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) |
|---|---|---|---|---|---|---|
| S0113U005 | 3/16 | 0.19 | 1.56 | 0.31 | 0.44 | 300 |
| S0113U007 | 1/4 | 0.25 | 2.00 | 0.44 | 0.63 | 500 |
| S0113U008 | 5/16 | 0.31 | 2.25 | 0.50 | 0.75 | 800 |
| S0113U010 | 3/8 | 0.38 | 2.55 | 0.63 | 0.88 | 1,200 |
| S0113U013 | 1/2 | 0.50 | 3.00 | 0.81 | 1.13 | 2,200 |
| S0113U016 | 5/8 | 0.63 | 4.94 | 1.06 | 1.38 | 3,500 |
| S0113U020 | 3/4 | 0.75 | 6.06 | 1.25 | 1.63 | 5,200 |

- 316-NM Stainless Steel
- Drop forged
- Load Rated
- Also called clevises
- Sold with pins
- Not threaded; can be threaded per your requirments

## RIGGING TOGGLE • 316-NM STAINLESS STEEL / DROP FORGED




| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S01680005 | 7/32 | 0.24 | 0.20 | 0.87 | 300 | 0.05 |
| S01680006 | 1/4 | 0.28 | 0.24 | 1.12 | 400 | 0.06 |
| S01680008 | 11/32 | 0.40 | 0.32 | 1.25 | 800 | 0.10 |
| S01680010 | 3/8 | 0.48 | 0.36 | 1.43 | 1,200 | 0.16 |
| S01680012 | 1/2 | 0.52 | 0.48 | 2.00 | 1,600 | 0.32 |

- 316 Stainless Steel
- Precision Cast
- Includes removable clevis pin

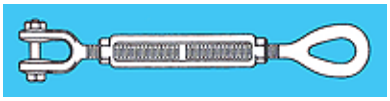
**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## JAW & JAW TURNBUCKLE
### HOT DIP GALVANIZED & DROP FORGED

- Hot Dip Galvanized
- Drop Forged
- Meets Federal Specification FF-T-791b
- Call for detailed dimensions

| Part # | Take Up (in) | Av. Overall Length Ends Closed (in) | WLL (lb) |
|---|---|---|---|
| TBJJ144 | 1/4 x 4 | 8.25 | 500 |
| TBJJ5164 | 5/16 x 4-1/2 | 9.56 | 800 |
| TBJJ386 | 3/8 x 6 | 11.88 | 1,200 |
| TBJJ126 | 1/2 x 6 | 13.31 | 2,200 |
| TBJJ129 | 1/2 x 9 | 16.31 | 2,200 |
| TBJJ1212 | 1/2 x 12 | 19.31 | 2,200 |
| TBJJ586 | 5/8 x 6 | 15.50 | 3,500 |
| TBJJ589 | 5/8 x 9 | 18.50 | 3,500 |
| TBJJ5812 | 5/8 x 12 | 21.50 | 3,500 |
| TBJJ346 | 3/4 x 6 | 17.00 | 5,200 |
| TBJJ349 | 3/4 x 9 | 20.00 | 5,200 |
| TBJJ3412 | 3/4 x 12 | 23.00 | 5,200 |
| TBJJ3418 | 3/4 x 18 | 29.00 | 5,200 |
| TBJJ7812 | 7/8 x 12 | 24.63 | 7,200 |
| TBJJ7818 | 7/8 x 18 | 30.63 | 7,200 |
| TBJJ16 | 1 x 6 | 20.63 | 10,000 |
| TBJJ112 | 1 x 12 | 26.63 | 10,000 |
| TBJJ118 | 1 x 18 | 32.63 | 10,000 |
| TBJJ11412 | 1-1/4 x 12 | 29.88 | 15,200 |
| TBJJ11418 | 1-1/4 x 18 | 35.88 | 15,200 |
| TBJJ11424 | 1-1/4 x 24 | 41.88 | 15,200 |
| TBJJ11212 | 1-1/2 x 12 | 32.38 | 21,400 |
| TBJJ11218 | 1-1/2 x 18 | 38.38 | 21,400 |
| TBJJ11224 | 1-1/2 x 24 | 44.38 | 21,400 |

## JAW & EYE TURNBUCKLE
### HOT DIP GALVANIZED & DROP FORGED



- Hot Dip Galvanized
- Drop Forged
- Meets Federal Specification FF-T-791b
- Call for detailed dimensions.

| Part # | Take Up (in) | Av. Overall Length Ends Closed (in) | WLL (lb) |
|---|---|---|---|
| TBJE144 | 1/4 x 4 | 8.25 | 500 |
| TBJE5164 | 5/16 x 4-1/2 | 9.56 | 800 |
| TBJE386 | 3/8 x 6 | 11.88 | 1,200 |
| TBJE126 | 1/2 x 6 | 13.31 | 2,200 |
| TBJE129 | 1/2 x 9 | 16.31 | 2,200 |
| TBJE1212 | 1/2 x 12 | 19.31 | 2,200 |
| TBJE586 | 5/8 x 6 | 15.50 | 3,500 |
| TBJE589 | 5/8 x 9 | 18.50 | 3,500 |
| TBJE5812 | 5/8 x 12 | 21.50 | 3,500 |
| TBJE346 | 3/4 x 6 | 17.00 | 5,200 |
| TBJE349 | 3/4 x 9 | 20.00 | 5,200 |
| TBJE3412 | 3/4 x 12 | 23.00 | 5,200 |
| TBJE3418 | 3/4 x 18 | 29.00 | 5,200 |
| TBJE7812 | 7/8 x 12 | 24.63 | 7,200 |
| TBJE7818 | 7/8 x 18 | 30.63 | 7,200 |
| TBJE16 | 1 x 6 | 20.63 | 10,000 |
| TBJE112 | 1 x 12 | 26.63 | 10,000 |
| TBJE118 | 1 x 18 | 32.63 | 10,000 |
| TBJE124 | 1 x 24 | 38.63 | 10,000 |
| TBJE11412 | 1-1/4 x 12 | 29.88 | 15,200 |
| TBJE11418 | 1-1/4 x 18 | 35.88 | 15,200 |
| TBJE11424 | 1-1/4 x 24 | 41.88 | 15,200 |
| TBJE11212 | 1-1/2 x 12 | 32.38 | 21,400 |
| TBJE11218 | 1-1/2 x 18 | 38.38 | 21,400 |
| TBJE11224 | 1-1/2 x 24 | 44.38 | 21,400 |



**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

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## EYE & EYE TURNBUCKLE
### HOT DIP GALVANIZED & DROP FORGED

- Hot Dip Galvanized
- Drop Forged
- Meets Federal Specification FF-T-791b
- Call for detailed dimensions.

| Part # | Take Up (in) | Av. Overall Length Ends Closed (in) | WLL (lb) |
|---|---|---|---|
| TBEE144 | 1/4 x 4 | 8.25 | 500 |
| TBEE5164 | 5/16 x 4-1/2 | 9.56 | 800 |
| TBEE386 | 3/8 x 6 | 11.88 | 1,200 |
| TBEE126 | 1/2 x 6 | 13.31 | 2,200 |
| TBEE129 | 1/2 x 9 | 16.30 | 2,200 |
| TBEE1212 | 1/2 x 12 | 19.31 | 2,200 |
| TBEE586 | 5/8 x 6 | 15.50 | 3,500 |
| TBEE589 | 5/8 x 9 | 18.50 | 3,500 |
| TBEE5812 | 5/8 x 12 | 21.50 | 3,500 |
| TBEE346 | 3/4 x 6 | 17.00 | 5,200 |
| TBEE349 | 3/4 x 9 | 20.00 | 5,200 |
| TBEE3412 | 3/4 x 12 | 23.00 | 5,200 |
| TBEE3418 | 3/4 x 18 | 29.00 | 5,200 |
| TBEE7812 | 7/8 x 12 | 24.63 | 7,200 |
| TBEE7818 | 7/8 x 18 | 30.63 | 7,200 |
| TBEE16 | 1 x 6 | 20.63 | 10,000 |
| TBEE112 | 1 x 12 | 26.63 | 10,000 |
| TBEE118 | 1 x 18 | 32.63 | 10,000 |
| TBEE124 | 1 x 24 | 38.63 | 10,000 |
| TBEE11412 | 1-1/4 x 12 | 29.88 | 15,200 |
| TBEE11418 | 1-1/4 x 18 | 35.88 | 15,200 |
| TBEE11424 | 1-1/4 x 24 | 41.88 | 15,200 |
| TBEE11212 | 1-1/2 x 12 | 32.38 | 21,400 |
| TBEE11218 | 1-1/2 x 18 | 38.38 | 21,400 |
| TBEE11224 | 1-1/2 x 24 | 44.38 | 21,400 |

## HOOK & EYE TURNBUCKLE
### HOT DIP GALVANIZED & DROP FORGED

- Hot Dip Galvanized
- Drop Forged
- Meets Federal Specification FF-T-791b
- Call for detailed dimensions

| Part # | Take Up (in) | Av. Overall Length Ends Closed (in) | WLL (lb) |
|---|---|---|---|
| TBHE144 | 1/4 x 4 | 8.25 | 500 |
| TBHE5164 | 5/16 x 4-1/2 | 9.56 | 800 |
| TBHE386 | 3/8 x 6 | 11.88 | 1,200 |
| TBHE126 | 1/2 x 6 | 13.31 | 2,200 |
| TBHE129 | 1/2 x 9 | 16.30 | 2,200 |
| TBHE1212 | 1/2 x 12 | 19.31 | 2,200 |
| TBHE586 | 5/8 x 6 | 15.50 | 3,500 |
| TBHE589 | 5/8 x 9 | 18.50 | 3,500 |
| TBHE5812 | 5/8 x 12 | 21.50 | 3,500 |
| TBHE346 | 3/4 x 6 | 17.00 | 5,200 |
| TBHE349 | 3/4 x 9 | 20.00 | 5,200 |
| TBHE3412 | 3/4 x 12 | 23.00 | 5,200 |
| TBHE3418 | 3/4 x 18 | 29.00 | 5,200 |
| TBHE7812 | 7/8 x 12 | 24.63 | 7,200 |
| TBHE7818 | 7/8 x 18 | 30.63 | 7,200 |
| TBHE16 | 1 x 6 | 20.63 | 10,000 |
| TBHE112 | 1 x 12 | 26.63 | 10,000 |
| TBHE118 | 1 x 18 | 32.63 | 10,000 |
| TBHE124 | 1 x 24 | 38.63 | 10,000 |
| TBHE11412 | 1-1/4 x 12 | 29.88 | 15,200 |
| TBHE11418 | 1-1/4 x 18 | 35.88 | 15,200 |
| TBHE11424 | 1-1/4 x 24 | 41.88 | 15,200 |
| TBHE11212 | 1-1/2 x 12 | 32.38 | 21,400 |
| TBHE11218 | 1-1/2 x 18 | 38.38 | 21,400 |
| TBHE11224 | 1-1/2 x 24 | 44.38 | 21,400 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## HOOK & HOOK TURNBUCKLE
### HOT DIP GALVANIZED & DROP FORGED

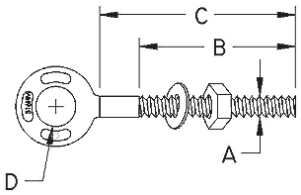
- Hot Dip Galvanized
- Drop Forged
- Meets Federal Specification FF-T-791b
- Call for detailed dimensions.

| Part # | Take Up (in) | Av. Overall Length Ends Closed (in) | WLL (lb) |
|---|---|---|---|
| TBHH144 | 1/4 x 4 | 8.25 | 400 |
| TBHH5164 | 5/16 x 4-1/2 | 9.56 | 700 |
| TBHH386 | 3/8 x 6 | 11.88 | 1,000 |
| TBHH126 | 1/2 x 6 | 13.31 | 1,500 |
| TBHH129 | 1/2 x 9 | 16.31 | 1,500 |
| TBHH1212 | 1/2 x 12 | 19.31 | 1,500 |
| TBHH586 | 5/8 x 6 | 15.50 | 2,250 |
| TBHH589 | 5/8 x 9 | 18.50 | 2,250 |
| TBHH5812 | 5/8 x 12 | 21.50 | 2,250 |
| TBHH346 | 3/4 x 6 | 17 | 3,000 |
| TBHH349 | 3/4 x 9 | 20.00 | 3,000 |
| TBHH3412 | 3/4 x 12 | 23.00 | 3,000 |
| TBHH3418 | 3/4 x 18 | 29.00 | 3,000 |
| TBHH7812 | 7/8 x 12 | 24.63 | 4,000 |
| TBHH7818 | 7/8 x 18 | 30.63 | 4,000 |
| TBHH16 | 1 x 6 | 20.63 | 5,000 |
| TBHH112 | 1 x 12 | 26.63 | 5,000 |
| TBHH118 | 1 x 18 | 32.63 | 5,000 |
| TBHH124 | 1 x 24 | 38.63 | 5,000 |
| TBHH11412 | 1-1/4 x 12 | 29.88 | 5,000 |
| TBHH11418 | 1-1/4 x 18 | 35.88 | 5,000 |
| TBHH11424 | 1-1/4 x 24 | 41.88 | 5,000 |
| TBHH11212 | 1-1/2 x 12 | 32.38 | 7,500 |
| TBHH11218 | 1-1/2 x 18 | 38.38 | 7,500 |
| TBHH11224 | 1-1/2 x 24 | 44.38 | 7,500 |



⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

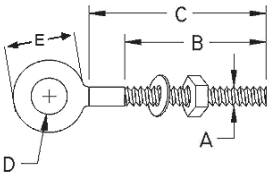
## PLAIN EYE BOLT
### 316-NM STAINLESS STEEL




- 316-NM Stainless Steel
- Forged & marked with 316-NM, size & WLL in tons
- Threads are UNC
- One nut & one washer included
- Shaft is machined for perfect fit & seating

| Part # | A Size (in) | B (in) | C (in) | D (in) | Thread (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| EBS142SUN | 1/4 | 1.50 | 2.00 | 0.50 | 1/4-20 | 500 |
| EBS144SUN | 1/4 | 2.40 | 4.00 | 0.50 | 1/4-20 | 500 |
| EBS516214SUN | 5/16 | 1.50 | 2.25 | 0.63 | 5/16-18 | 800 |
| EBS516414SUN | 5/16 | 2.50 | 4.25 | 0.63 | 5/16-18 | 800 |
| EBS38212SUN | 3/8 | 1.50 | 2.50 | 0.75 | 3/8-16 | 1,200 |
| EBS38412SUN | 3/8 | 2.50 | 4.50 | 0.75 | 3/8-16 | 1,200 |
| EBS12112SUN | 1/2 | 1.25 | 1.50 | 1.00 | 1/2-13 | 2,150 |
| EBS12314SUN | 1/2 | 1.50 | 3.25 | 1.00 | 1/2-13 | 2,150 |
| EBS126SUN | 1/2 | 3.00 | 6.00 | 1.00 | 1/2-13 | 2,150 |
| EBS581SUN | 5/8 | 0.75 | 1.00 | 1.25 | 5/8-11 | 3,440 |
| EBS582SUN | 5/8 | 1.75 | 2.00 | 1.25 | 5/8-11 | 3,440 |
| EBS584SUN | 5/8 | 2.00 | 4.00 | 1.25 | 5/8-11 | 3,440 |
| EBS586SUN | 5/8 | 3.00 | 6.00 | 1.25 | 5/8-11 | 3,440 |
| EBS341SUN | 3/4 | 0.88 | 1.00 | 1.50 | 3/4-10 | 5,140 |
| EBS342SUN | 3/4 | 1.75 | 2.00 | 1.50 | 3/4-10 | 5,140 |
| EBS34412SUN | 3/4 | 2.00 | 4.50 | 1.50 | 3/4-10 | 5,140 |
| EBS346SUN | 3/4 | 3.00 | 6.00 | 1.50 | 3/4-10 | 5,140 |
| EBS785SUN | 7/8 | 2.50 | 5.00 | 1.75 | 7/8-9 | 7,130 |
| EBS115SUN | 1 | 1.38 | 1.44 | 2.00 | 1-8 | 9,370 |
| EBS125SUN | 1 | 2.25 | 2.50 | 2.00 | 1-8 | 9,370 |
| EBS16 | 1 | 3.00 | 6.00 | 2.00 | 1-8 | 9,370 |

## PLAIN EYE BOLT
### GALVANIZED / FORGED

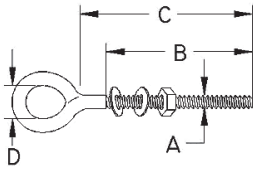



- Forged
- Hot dipped galvanized

| Part # | A Size (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| EBGR142 | 1/4 | 1.50 | 2.00 | 0.50 | 1.00 | 500 | 0.06 |
| EBGR144 | 1/4 | 2.50 | 4.00 | 0.50 | 1.00 | 500 | 0.10 |
| EBGR516212 | 5/16 | 1.50 | 2.50 | 0.63 | 1.25 | 800 | 0.13 |
| EBGR516414 | 5/16 | 2.50 | 4.25 | 0.63 | 1.25 | 800 | 0.17 |
| EBGR38212 | 3/8 | 1.50 | 2.50 | 0.75 | 1.50 | 1,200 | 0.22 |
| EBGR38412 | 3/8 | 2.50 | 4.50 | 0.75 | 1.50 | 1,200 | 0.28 |
| EBGR386 | 3/8 | 2.50 | 6.00 | 0.75 | 1.50 | 1,200 | 0.33 |
| EBGR388 | 3/8 | - | 8.00 | 0.75 | 1.50 | 1,200 | - |
| EBGR122 | 1/2 | 1.50 | 2.00 | 1.00 | 2.00 | 2,200 | 0.46 |
| EBGR12314 | 1/2 | 1.50 | 3.25 | 1.00 | 2.00 | 2,200 | 0.54 |
| EBGR12412 | 1/2 | - | 4.50 | 1.00 | 2.00 | 2,200 | - |
| EBGR126 | 1/2 | 3.00 | 6.00 | 1.00 | 2.00 | 2,200 | 0.68 |
| EBGR128 | 1/2 | 3.00 | 8.00 | 1.00 | 2.00 | 2,200 | 0.80 |
| EBGR1210 | 1/2 | 3.00 | 10.00 | 1.00 | 2.00 | 2,200 | 0.93 |
| EBGR1212 | 1/2 | - | 12.00 | 1.25 | 2.50 | 2,200 | - |
| EBGR1218 | 1/2 | - | 18.00 | 1.00 | 2.00 | 2,200 | - |
| EBGR584 | 5/8 | 2.00 | 4.00 | 1.25 | 2.50 | 3,500 | 1.00 |
| EBGR586 | 5/8 | 3.00 | 6.00 | 1.25 | 2.50 | 3,500 | 1.14 |
| EBGR588 | 5/8 | 3.00 | 8.00 | 1.25 | 2.50 | 3,500 | 1.38 |
| EBGR5810 | 5/8 | 3.00 | 10.00 | 1.25 | 2.50 | 3,500 | 1.55 |
| EBGR5812 | 5/8 | 4.00 | 12.00 | 1.25 | 2.50 | 3,500 | 1.69 |
| EBGR5815 | 5/8 | 5.00 | 15.00 | 1.25 | 2.50 | 3,500 | - |
| EBGR5818 | 5/8 | - | 18.00 | 1.25 | 2.50 | 3,500 | - |
| EBGR34412 | 3/4 | 2.00 | 4.50 | 1.50 | 3.00 | 5,200 | 1.64 |
| EBGR346 | 3/4 | 3.00 | 6.00 | 1.50 | 3.00 | 5,200 | 1.81 |
| EBGR348 | 3/4 | 3.00 | 8.00 | 1.50 | 3.00 | 5,200 | 2.00 |
| EBGR3410 | 3/4 | 3.00 | 10.00 | 1.50 | 3.00 | 5,200 | 2.30 |
| EBGR3412 | 3/4 | 4.00 | 12.00 | 1.50 | 3.00 | 5,200 | 2.50 |
| EBGR3415 | 3/4 | 5.00 | 15.00 | 1.50 | 3.00 | 5,200 | 2.90 |
| EBGR3418 | 3/4 | - | 18.00 | 1.50 | 3.00 | 5,200 | - |
| EBGR16 | 1 | 3.00 | 6.00 | 2.00 | 4.00 | 10,000 | 3.60 |
| EBGR19 | 1 | 4.00 | 9.00 | 2.00 | 4.00 | 10,000 | 4.30 |
| EBGR112 | 1 | 4.00 | 12.00 | 2.00 | 4.00 | 10,000 | 5.00 |
| EBGR118 | 1 | - | 18.00 | 2.00 | 4.00 | 10,000 | - |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

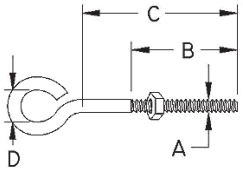
## WELDED EYE BOLT
### 304 STAINLESS STEEL




- 304 Stainless Steel
- All threads are standard UNC
- One nut and two washers are included
- Extra nuts and washers are available from stock
- Custom sizes are available

| Part # | A Size (in) | B (in) | C (in) | D (in) | Thread (in) | Wire Dia. (in) | WLL (lb) |
|---|---|---|---|---|---|---|---|
| EBSW3161 | 3/16 | 0.85 | 1 | 0.37 | 3/16-24 | 0.16 | 250 |
| EBSW3162 | 3/16 | 1.50 | 2 | 0.37 | 3/16-24 | 0.16 | 250 |
| EBSW3163 | 3/16 | 1.75 | 3 | 0.37 | 3/16-24 | 0.16 | 250 |
| EBSW142 | 1/4 | 1.50 | 2 | 0.50 | 1/4-20 | 0.21 | 400 |
| EBSW143 | 1/4 | 2.00 | 3 | 0.50 | 1/4-20 | 0.21 | 400 |
| EBSW144 | 1/4 | 2.00 | 4 | 0.50 | 1/4-20 | 0.21 | 400 |
| EBSW145 | 1/4 | 2.00 | 5 | 0.50 | 1/4-20 | 0.21 | 400 |
| EBSW146 | 1/4 | 2.00 | 6 | 0.50 | 1/4-20 | 0.21 | 400 |
| EBSW5162 | 5/16 | 1.25 | 2 | 0.63 | 5/16-18 | 0.27 | 600 |
| EBSW5163 | 5/16 | 2.00 | 3 | 0.63 | 5/16-18 | 0.27 | 600 |
| EBSW5164 | 5/16 | 2.00 | 4 | 0.63 | 5/16-18 | 0.27 | 600 |
| EBSW5165 | 5/16 | 2.00 | 5 | 0.63 | 5/16-18 | 0.27 | 600 |
| EBSW5166 | 5/16 | 2.00 | 6 | 0.63 | 5/16-18 | 0.27 | 600 |
| EBSW383 | 3/8 | 3.00 | 3 | 0.75 | 3/8-16 | 0.33 | 1,000 |
| EBSW384 | 3/8 | 2.00 | 4 | 0.75 | 3/8-16 | 0.33 | 1,000 |
| EBSW385 | 3/8 | 2.00 | 5 | 0.75 | 3/8-16 | 0.33 | 1,000 |
| EBSW386 | 3/8 | 2.00 | 6 | 0.75 | 3/8-16 | 0.33 | 1,000 |
| EBSW122 | 1/2 | 2.00 | 2 | 1.00 | 1/2-13 | 0.43 | 1,800 |
| EBSW123 | 1/2 | 2.00 | 3 | 1.00 | 1/2-13 | 0.43 | 1,800 |
| EBSW124 | 1/2 | 2.00 | 4 | 1.00 | 1/2-13 | 0.43 | 1,800 |
| EBSW125 | 1/2 | 2.00 | 5 | 1.00 | 1/2-13 | 0.43 | 1,800 |
| EBSW126 | 1/2 | 2.00 | 6 | 1.00 | 1/2-13 | 0.43 | 1,800 |

## UNWELDED EYE BOLT
### 304 STAINLESS STEEL




- 304 Stainless Steel
- All threads are standard UNC
- One nut is included
- Extra nuts and washers are available from stock
- Custom sizes are available

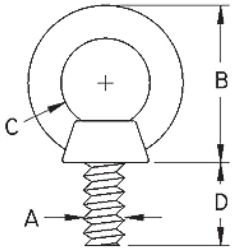
| Part # | A Size (in) | B (in) | C (in) | D (in) | Thread (in) | Wire Dia. (in) | WLL (lb) |
|---|---|---|---|---|---|---|---|
| S031005025 | 3/16 | 0.88 | 1 | 0.38 | 3/16-24 | 0.16 | 100 |
| S031005050 | 3/16 | 1.00 | 2 | 0.38 | 3/16-24 | 0.16 | 100 |
| S031005075 | 3/16 | 1.50 | 3 | 0.38 | 3/16-24 | 0.16 | 100 |
| S031007025 | 1/4 | 0.88 | 1 | 0.50 | 1/4-20 | 0.21 | 200 |
| S031007050 | 1/4 | 1.25 | 2 | 0.50 | 1/4-20 | 0.21 | 200 |
| S0310-07075 | 1/4 | 1.50 | 3 | 0.50 | 1/4-20 | 0.21 | 200 |
| S031007100 | 1/4 | 2.50 | 4 | 0.50 | 1/4-20 | 0.21 | 200 |
| S031007125 | 1/4 | 3.00 | 5 | 0.50 | 1/4-20 | 0.21 | 200 |
| S031007150 | 1/4 | 4.00 | 6 | 0.50 | 1/4-20 | 0.21 | 200 |
| S031008025 | 5/16 | 0.88 | 1 | 0.63 | 5/16-18 | 0.27 | 350 |
| S031008050 | 5/16 | 1.25 | 2 | 0.63 | 5/16-18 | 0.27 | 350 |
| S031008075 | 5/16 | 1.50 | 3 | 0.63 | 5/16-18 | 0.27 | 350 |
| S031008100 | 5/16 | 2.50 | 4 | 0.63 | 5/16-18 | 0.27 | 350 |
| S031010025 | 3/8 | 0.88 | 1 | 0.75 | 3/8-16 | 0.33 | 500 |
| S031010050 | 3/8 | 1.25 | 2 | 0.75 | 3/8-16 | 0.33 | 500 |
| S031010075 | 3/8 | 1.50 | 3 | .075 | 3/8-16 | 0.33 | 500 |
| S031010100 | 3/8 | 2.50 | 4 | 0.75 | 3/8-16 | 0.33 | 500 |
| S0310-10125 | 3/8 | 3.00 | 5 | 0.75 | 3/8-16 | 0.33 | 500 |
| S031010150 | 3/8 | 4.00 | 6 | 0.75 | 3/8-16 | 0.33 | 500 |
| S031013050 | 1/2 | 1.50 | 2 | 1.00 | 1/2-13 | 0.43 | 1,000 |
| S031013100 | 1/2 | 2.50 | 4 | 1.00 | 1/2-13 | 0.43 | 1,000 |
| S031013150 | 1/2 | 4.00 | 6 | 1.00 | 1/2-13 | 0.43 | 1,000 |



**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# THREADED PRODUCTS

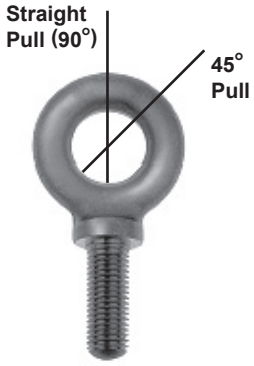
## MACHINE EYE BOLT • 316 STAINLESS STEEL




- 316 Stainless Steel
- Threads are UNC
- Also available in titanium

| Part # | A Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S03160007 | 1/4 | 1.09 | 0.62 | 0.53 | 400 | 0.05 |
| S03160008 | 5/16 | 1.34 | 0.75 | 0.58 | 700 | 0.07 |
| S03160010 | 3/8 | 1.68 | 0.95 | 0.71 | 1,000 | 0.13 |
| S03160013 | 1/2 | 2.00 | 1.14 | 0.86 | 2,000 | 0.30 |
| S03160016 | 5/8 | 2.42 | 1.32 | 1.02 | 3,200 | 0.45 |
| S03160020 | 3/4 | 2.78 | 1.57 | 1.14 | 4,700 | 0.79 |
| S03160025 | 1 | 3.54 | 1.95 | 1.31 | 7,500 | 1.65 |

## MACHINE EYE BOLT • SELF-COLORED / DROP FORGED

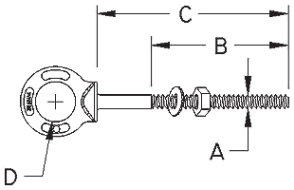



- Self-colored
- Drop forged steel
- Heat treated after forging
- Chart is for domestic machine eye bolts, foreign is also available
- Larger sizes available on special order

| Part # | Shank | | Eye | | Overall Length (in) | WLL (lb) | | Wt 100 Pcs (lb) |
|---|---|---|---|---|---|---|---|---|
| | Dia. & Thread | Length (in) | In Dia. (in) | Out Dia. (in) | | Straight Pull | 45° Pull | |
| EBM21 | 1/4" - 20 | 1 | 3/4 | 1-1/4 | 2-3/8 | 500 | 125 | 6 |
| EBM22 | 5/16" - 18 | 1-1/8 | 7/8 | 1-1/2 | 2-3/4 | 900 | 225 | 10 |
| EBM23 | 3/8" - 16 | 1-1/4 | 1 | 1-21/32 | 3-1/4 | 1,400 | 350 | 16 |
| EBM24 | 7/16" - 14 | 1-3/8 | 1-3/32 | 1-27/32 | 3-5/8 | 2,000 | 500 | 27 |
| EBM25 | 1/2" - 13 | 1-1/2 | 1-3/16 | 2-1/16 | 4 | 2,600 | 650 | 38 |
| EBM26 | 9/16" - 12 | 1-5/8 | 1-9/32 | 2-9/32 | 4-1/2 | 3,200 | 750 | 49 |
| EBM27 | 5/8" - 11 | 1-3/4 | 1-3/8 | 2-1/2 | 4-7/8 | 4,000 | 1,000 | 74 |
| EBM28 | 3/4" - 10 | 2 | 1-1/2 | 2-13/16 | 5-1/4 | 6,000 | 1,500 | 100 |
| EBM29 | 7/8" - 9 | 2-1/4 | 1-11/16 | 3-1/4 | 6 | 7,000 | 1,750 | 173 |
| EBM30 | 1" - 8 | 2-1/2 | 1-13/16 | 3-9/16 | 7 | 9,000 | 2,250 | 235 |
| EBM31 | 1-1/8" - 7 | 2-3/4 | 2 | 4 | 7-1/2 | 12,000 | 2,500 | 343 |
| EBM32 | 1-1/4" - 7 | 3 | 2-3/16 | 4-7/16 | 8-1/2 | 15,000 | 3,750 | 463 |
| EBM33 | 1-1/2" - 6 | 3-1/2 | 2-1/2 | 5-3/16 | 9-1/2 | 21,000 | 4,900 | 753 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

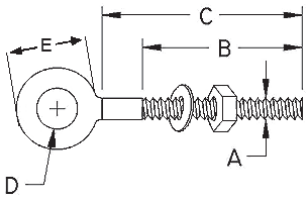
## SHOULDER EYE BOLT • 316-NM STAINLESS STEEL




- 316-NM Stainless Steel
- Drop forged & marked with 316-NM, size & WLL
- All threads are UNC
- One nut & washer are included
- Shaft & underside of shoulder are machined for perfect fit & seating

| Part # | A Size (in) | B (in) | C (in) | D (in) | Thread (in) | WLL (lb) |
|---|---|---|---|---|---|---|
| EBSS142SUN | 1/4 | 1.50 | 2.00 | 0.50 | 1/4-20 | 500 |
| EBSS144SUN | 1/4 | 2.50 | 4.00 | 0.50 | 1/4-20 | 500 |
| EBS516214SUN | 5/16 | 1.50 | 2.25 | 0.63 | 5/16-18 | 800 |
| EBS516414SUN | 5/16 | 2.50 | 4.25 | 0.63 | 5/16-18 | 800 |
| EBSS38212SUN | 3/8 | 1.50 | 2.50 | 0.75 | 3/8-16 | 1,200 |
| EBSS38412SUN | 3/8 | 2.50 | 4.50 | 0.75 | 3/8-16 | 1,200 |
| EBSS1212SUN | 1/2 | 1.25 | 1.50 | 1.00 | 1/2-13 | 2,150 |
| EBSS12314SUN | 1/2 | 1.50 | 3.25 | 1.00 | 1/2-13 | 2,150 |
| EBSS126SUN | 1/2 | 3.00 | 6.00 | 1.00 | 1/2-13 | 2,150 |
| EBSS582SUN | 5/8 | 1.75 | 2.00 | 1.25 | 5/8-11 | 3,440 |
| EBSS584SUN | 5/8 | 2.00 | 4.00 | 1.25 | 5/8-11 | 3,440 |
| EBSS586SUN | 5/8 | 3.00 | 6.00 | 1.25 | 5/8-11 | 3,440 |
| EBSS342SUN | 3/4 | 1.75 | 2.00 | 1.50 | 3/4-10 | 5,140 |
| EBSS34412SUN | 3/4 | 2.00 | 4.50 | 1.50 | 3/4-10 | 5,140 |
| EBSS346SUN | 3/4 | 3.00 | 6.00 | 1.50 | 3/4-10 | 5,140 |
| EBSS785SUN | 7/8 | 2.50 | 5.00 | 1.75 | 7/8-9 | 7,130 |
| EBSS112SUN | 1 | 1.38 | 1.44 | 2.00 | 1-8 | 9,370 |
| EBSS1212SUN | 1 | 2.25 | 2.50 | 2.00 | 1-8 | 9,370 |
| EBSS16SUN | 1 | 3.00 | 6.00 | 2.00 | 1-8 | 9,370 |

## SHOULDER EYE BOLT • GALVANIZED / FORGED

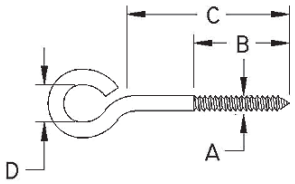



- Forged
- Hot dipped galvanized

| Part # | A Size (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| EBGS142 | 1/4 | 1.50 | 2.00 | 0.50 | 1.00 | 500 | 0.06 |
| EBGS144 | 1/4 | 2.50 | 4.00 | 0.50 | 1.00 | 500 | 0.10 |
| EBGS516212 | 5/16 | 1.50 | 2.50 | 0.63 | 1.25 | 800 | 0.13 |
| EBGS516414 | 5/16 | 2.50 | 4.25 | 0.63 | 1.25 | 800 | 0.17 |
| EBGS38212CW | 3/8 | 1.50 | 2.50 | 0.75 | 1.50 | 1,200 | 0.22 |
| EBGS38412 | 3/8 | 2.50 | 4.50 | 0.75 | 1.50 | 1,200 | 0.28 |
| EBGS122 | 1/2 | 1.50 | 2.00 | 1.00 | 2.00 | 2,200 | 0.46 |
| EBGS12314 | 1/2 | 1.50 | 3.25 | 1.00 | 2.00 | 2,200 | 0.54 |
| EBGS126 | 1/2 | 3.00 | 6.00 | 1.00 | 2.00 | 2,200 | 0.68 |
| EBGS128 | 1/2 | 3.00 | 8.00 | 1.00 | 2.00 | 2,200 | 0.80 |
| EBGS1210 | 1/2 | 3.00 | 10.00 | 1.00 | 2.00 | 2,200 | 0.93 |
| EBGS584 | 5/8 | 2.00 | 4.00 | 1.25 | 2.50 | 3,500 | 1.00 |
| EBGS586 | 5/8 | 3.00 | 6.00 | 1.25 | 2.50 | 3,500 | 1.14 |
| EBGS5810 | 5/8 | 3.00 | 10.00 | 1.25 | 2.50 | 3,500 | 1.55 |
| EBGS5812 | 5/8 | 4.00 | 12.00 | 1.25 | 2.50 | 3,500 | 1.69 |
| EBGS34412 | 3/4 | 2.00 | 4.50 | 1.50 | 3.00 | 5,200 | 1.64 |
| EBGS346 | 3/4 | 3.00 | 6.00 | 1.50 | 3.00 | 5,200 | 1.81 |
| EBGS3418 | 3/4 | - | 18.00 | 1.50 | 3.00 | 5,200 | - |
| EBGS16 | 1 | 3.00 | 6.00 | 2.00 | 4.00 | 10,000 | 3.60 |
| EBGS19 | 1 | 4.00 | 9 .00 | 2.00 | 4.00 | 10,000 | 4.30 |

# THREADED PRODUCTS

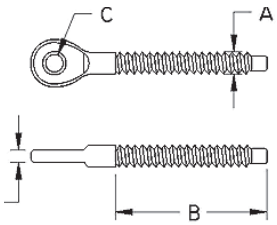
## LAG EYE SCREW BOLT • 304 STAINLESS STEEL




- 304 Stainless Steel
- Wire formed, wood type threads
- The working load has not been established since it depends on the wood, hole & installation

| Part # | A Size (in) | B (in) | C (in) | D (in) | Wire Dia. (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| S032704025 | 5/32 | 0.63 | 0.75 | 0.44 | 0.16 | 0.01 |
| S032707032 | 1/4 | 0.75 | 1.00 | 0.63 | 0.23 | 0.03 |
| S032707065 | 1/4 | 1.87 | 2.50 | 0.58 | 0.23 | 0.03 |
| S032707075 | 1/4 | 1.87 | 3.00 | 0.50 | 0.23 | 0.03 |
| S032707100 | 1/4 | 1.87 | 4.00 | 0.50 | 0.26 | 0.04 |
| S032708032 | 5/16 | 0.75 | 1.25 | 0.63 | 0.26 | 0.05 |
| S032708065 | 5/16 | 1.25 | 2.50 | 0.63 | 0.26 | 0.06 |
| S032708075 | 5/16 | 1.75 | 3.00 | 0.63 | 0.26 | 0.07 |
| S032708100 | 5/16 | 1.75 | 4.00 | 0.63 | 0.26 | 0.08 |
| S032708125 | 5/16 | 1.75 | 5.00 | 0.63 | 0.26 | 0.10 |
| S032710065 | 3/8 | 1.75 | 2.50 | 0.75 | 0.32 | 0.10 |

## HANGER EYE BOLT • 316 STAINLESS STEEL




- 316 Stainless Steel
- Also called an eye end bolt, All threads standard UNF
- Eye is forged and machined

| Part # | A Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S03180007 | 1/4 | 1.86 | 0.26 | 0.16 | 500 | 0.04 |
| S03180009 | 5/16 | 2.26 | 0.34 | 0.16 | 900 | 0.07 |
| S03180010 | 3/8 | 2.50 | 0.41 | 0.22 | 1,400 | 0.11 |
| S03180013 | 1/2 | 3.14 | 0.51 | 0.32 | 2,300 | 0.22 |
| S03180016 | 5/8 | 4.00 | 0.57 | 0.38 | 3,500 | 0.45 |

## SHOULDER LAG EYE SCREW BOLT • GALVANIZED / FORGED

- Forged
- Hot dipped galvanized
- Chart is for domestic shoulder lag eye screw bolts, foreign also available

| Part # | Bolt Dia (in) | Overall Length (in) | ID Eye (in) | OD Eye (in) | Width Shoulder (in) | WLL (lb) |
|---|---|---|---|---|---|---|
| EBGSS142 | 1/4 | 2 | 1/2 | 1 | 5/64 | 500 |
| EBGSS516214 | 5/16 | 2-1/4 | 5/8 | 1-1/4 | 3/32 | 800 |
| EBGSS38212 | 3/8 | 2-1/2 | 3/4 | 1-1/2 | 1/8 | 1,200 |
| EBGSS12314 | 1/2 | 3-1/4 | 1 | 2 | 5/32 | 2,200 |
| EBGSS58412 | 5/8 | 4-1/2 | 1-1/4 | 2-5/16 | 13/64 | 3,500 |
| EBGSS34412 | 3/4 | 4-1/2 | 1-1/2 | 2-3/4 | 1/4 | 5,200 |

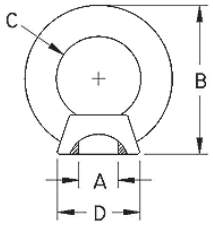
**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**



Miami Cordage
Florida Wire & Rigging Works

Family owned & operated Since 1960

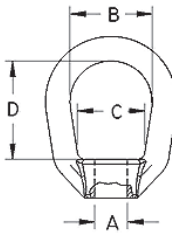
## EYE NUT • 316 STAINLESS STEEL




- 316 Stainless Stee
- Threads are UNC
- Also available in titanium

| Part # | A Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| ENS14 | 1/4 | 1.20 | 0.62 | 0.50 | 400 | 0.04 |
| ENS516 | 5/16 | 1.55 | 0.75 | 0.62 | 700 | 0.08 |
| ENS38 | 3/8 | 1.92 | 0.97 | 0.76 | 1,000 | 0.13 |
| ENS12 | 1/2 | 2.38 | 1.17 | 0.95 | 2,000 | 0.26 |
| ENS58 | 5/8 | 2.81 | 1.34 | 1.19 | 3,200 | 0.53 |
| ENS34 | 3/4 | 3.36 | 1.57 | 1.32 | 4,700 | 0.75 |
| ENS1 | 1 | 4.16 | 1.95 | 1.70 | 7,500 | 1.49 |

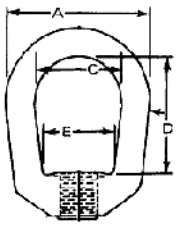
## LIFTING EYE NUT • 316-NM STAINLESS STEEL / DROP FORGED




- 316-NM Stainless Steel
- All threads are UNC
- Drop Forged & marked with 316-NM, Size and WLL
- Underside of shoulder is Machined for perfect seating

| Part # | A Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S03220007 | 1/4 | 0.75 | 0.59 | 1.06 | 460 | 0.08 |
| S03220008 | 5/16 | 0.75 | 0.59 | 1.06 | 780 | 0.08 |
| S03220010 | 3/8 | 1.25 | 1.00 | 1.50 | 1,160 | 0.26 |
| S03220013 | 1/2 | 1.25 | 1.00 | 1.50 | 2,150 | 0.25 |
| S03220016 | 5/8 | 1.50 | 1.19 | 2.00 | 3,440 | 0.53 |
| S03220020 | 3/4 | 1.75 | 1.25 | 2.37 | 5,140 | 0.95 |

## LIFTING EYE NUT • SELF-COLORED / DROP FORGED




| Part # | Bail Size (in) | Tap Size | A (in) | C (in) | D (in) | E (in) | WLL (tons) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|
| EN14D | 1/4 | 1/4” - 20 | 1-1/4 | 3/4 | 1-1/16 | 19/32 | 0.26 | 0.08 |
| EN516D | 5/16 | 3/8” - 16 | 1-5/8 | 1 | 1-1/4 | 3/4 | 0.62 | 0.16 |
| EN38D | 3/8 | 7/16” - 14 | 2 | 1-1/4 | 1-1/2 | 1 | 0.85 | 0.30 |
| EN12D | 1/2 | 5/8” - 11 | 2-1/2 | 1-1/2 | 2 | 1-3/16 | 1.80 | 0.62 |
| EN58D | 5/8 | 3/4” - 10 | 3 | 1-3/4 | 2-3/8 | 1-3/8 | 2.60 | 1.03 |
| EN34D | 3/4 | 7/8” - 9 | 3-1/2 | 2 | 2-5/8 | 1-5/8 | 3.60 | 1.63 |

- Self-colored, drop forged
- Hot dipped galvanized available on special order
- Chart if for domestic lifting eye nut, foreign is also available
- Larger sizes available on special order

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

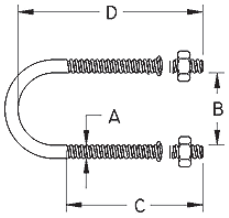
# THREADED PRODUCTS

## RING BOLTS • GALVANIZED / FORGED

- Forged steel
- Quenched & tempered
- Diameter of thread & ring are equal
- Hot dipped galvanized
- All bolts hot dipped galvanized after threading
- Also available in Stainless Steel

| Part # | Thread (in) | Shank Length (in) |
|---|---|---|
| RBG142 | 1/4 | 2 |
| RBG144 | 1/4 | 4 |
| RBG516214 | 5/16 | 2-1/4 |
| RBG38212 | 3/8 | 2-1/2 |
| RBG38412 | 3/8 | 4-1/2 |
| RBG12314 | 1/2 | 3-1/4 |
| RBG126 | 1/2 | 6 |
| RBG586 | 5/8 | 6 |
| RBG34412 | 3/4 | 4-1/2 |
| RBG348 | 3/4 | 8 |

## U-BOLT WITH PLATE • 304 STAINLESS STEEL

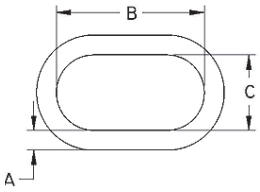



- 304 Stainless Steel
- All threads are UNC
- Set includes 2 nuts
- Extra nuts & washers are available from stock
- Additional sizes available
- Hot dipped galvanized available

| Part # | A Thread (in) | B (in) | C (in) | D (in) | Pipe (in) | WLL (in) |
|---|---|---|---|---|---|---|
| S035007010 | 1/4-20 | 0.75 | 0.63 | 1.25 | 3/8 | 435 |
| S035007013 | 1/4-20 | 1.00 | 1.00 | 1.75 | 1/2 | 435 |
| S035007020 | 1/4-20 | 1.13 | 1.00 | 2.00 | 3/4 | 435 |
| S035007025 | 1/4-20 | 1.50 | 1.38 | 2.75 | 1 | 435 |
| S035007032 | 1/4-20 | 1.75 | 1.38 | 3.00 | 1-1/4 | 435 |
| S035007038 | 1/4-20 | 2.00 | 1.38 | 3.25 | 1-1/2 | 435 |
| S035008013 | 5/16-18 | 1.00 | 1.38 | 2.19 | 1/2 | 610 |
| S035008026 | 5/16-18 | 1.50 | 1.00 | 2.19 | 1 | 610 |
| S035008032 | 5/16-18 | 1.75 | 1.13 | 2.69 | 1-1/4 | 610 |
| S035008038 | 5/16-18 | 2.00 | 1.00 | 2.69 | 1-1/2 | 610 |
| S035008050 | 5/16-18 | 2.50 | 1.00 | 3.19 | 2 | 610 |
| S035008065 | 5/16-18 | 3.00 | 1.00 | 3.69 | 2-1/2 | 610 |
| S035010013 | 3/8-16 | 1.00 | 1.25 | 2.25 | 1/2 | 1,090 |
| S035010020 | 3/8-16 | 1.25 | 1.25 | 2.25 | 3/4 | 1,090 |
| S035010025 | 3/8-16 | 1.50 | 1.25 | 2.50 | 1 | 1,090 |
| S035010032 | 3/8-16 | 1.75 | 1.25 | 2.75 | 1-1/4 | 1,090 |
| S035010038 | 3/8-16 | 2.00 | 1.25 | 2.63 | 1-1/2 | 1,090 |
| S035010050 | 3/8-16 | 2.50 | 1.25 | 3.13 | 2 | 1,090 |
| S035010065 | 3/8-16 | 3.00 | 1.25 | 3.63 | 2-1/2 | 1,090 |
| S035010075 | 3/8-16 | 3.50 | 1.25 | 4.13 | 3 | 1,090 |
| S03513065 | 1/2-13 | 3.00 | 1.63 | 4.50 | 2-1/2 | 2,020 |
| S03513075 | 1/2-13 | 3.50 | 1.50 | 5.00 | 3 | 2,020 |
| S03513090 | 1/2-13 | 4.00 | 1.50 | 5.50 | 3-1/2 | 2,020 |
| S03513100 | 1/2-13 | 4.50 | 1.50 | 6.00 | 4 | 2,020 |
| S03513125 | 1/2-13 | 5.63 | 2.00 | 7.25 | 5 | 2,020 |
| S035130150 | 1/2-13 | 6.75 | 2.00 | 8.38 | 6 | 2,020 |
| S03513200 | 1/2-13 | 8.75 | 2.00 | 10.38 | 8 | 2,020 |

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

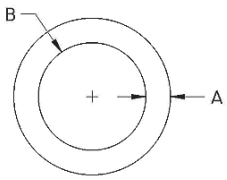
## MASTER LINK • 316-NM STAINLESS STEEL




- 316-NM Stainless Steel
- Each link is integral forged, not welded, and is stamped with size and WLL
- Be sure all components of your assembly have matched WLL

| Part # | A (size) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| LKMAS38 | 3/8 | 3.00 | 1.50 | 1,500 | 0.35 |
| LKMAS12 | 1/2 | 5.00 | 2.50 | 2,000 | 0.84 |
| LKMAS58 | 5/8 | 6.00 | 3.00 | 2,800 | 1.61 |
| LKMAS34 | 3/4 | 6.50 | 3.25 | 3,750 | 2.26 |
| LKMAS1 | 1 | 7.00 | 3.50 | 8,000 | 4.94 |
| LKMAS114 | 1-1/4 | 8.75 | 4.38 | 11,800 | 9.65 |

## ROUND RING • STAINLESS STEEL / GAVANIZED / BRONZE




- Wire Formed

**HOT DIP GALVANIZED**

| Part # | Size (in) | Inside Dia. (in) | Wt (lb) |
|---|---|---|---|
| WC49214112 | 1/4 | 1-1/2 | 0.09 |
| WC492142 | 1/4 | 2 | 0.11 |
| WC4925162 | 5/16 | 2 | 0.17 |
| WC492516214 | 5/16 | 2-1/4 | 0.18 |
| WC49238212 | 3/8 | 2-1/2 | 0.3 |
| WC492383 | 3/8 | 3 | 0.34 |
| WC492123 | 1/2 | 3 | 0.7 |
| WC492124 | 1/2 | 4 | 0.8 |
| WC492584 | 5/8 | 4 | 1.34 |

**BRONZE**

| Part # | Size (in) | Inside Dia. (in) | Wt per 100 pcs (lb) |
|---|---|---|---|
| RIB1 | 3/16 | 1 | 3-1/2 |
| RIB118 | 3/16 | 1-1/8 | 5-3/4 |
| RIB112 | 1/4 | 1-1/2 | 7 |
| RIB134 | 1/4 | 1-3/4 | 10 |
| RIB2 | 1/4 | 2 | 12 |

**316 STAINLESS STEEL**

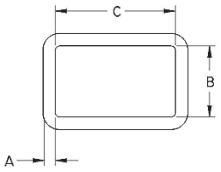
| Part # | A/Size (in) | B (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|
| RIS1834CW | 1/8 | 3/4 | 125 | 0.01 |
| RIS181CW | 1/8 | 1 | 125 | 0.01 |
| RIS181316CW | 1/8 | 1-3/16 | 125 | 0.01 |
| RIS5321CW | 5/32 | 1 | 300 | 0.03 |
| RIS532114SUN | 5/32 | 1-1/4 | 280 | 0.03 |
| RIS532112SUN | 5/32 | 1-1/2 | 250 | 0.03 |
| RIS3161SUN | 3/16 | 1 | 500 | 0.04 |
| RIS316114CW | 3/16 | 1-1/4 | 300 | 0.05 |
| RIS316112CW | 3/16 | 1-1/2 | 300 | 0.06 |
| RIS3162SUN | 3/16 | 2 | 250 | 0.05 |
| RIS141CW | 1/4 | 1 | 600 | 0.05 |
| RIS14114SUN | 1/4 | 1-1/4 | 500 | 0.06 |
| RIS14112SUN | 1/4 | 1-1/2 | 400 | 0.08 |
| RIS141916CW | 1/4 | 19/16 | 350 | 0.09 |
| RIS142SUN | 1/4 | 2 | 350 | 0.10 |
| RIS516112CW | 5/16 | 1-1/2 | 750 | 0.14 |
| RIS516134SUN | 5/16 | 1-3/4 | 700 | 0.15 |
| RIS5162SUN | 5/16 | 2 | 600 | 0.16 |
| RIS516212CW | 5/16 | 2-1/2 | 500 | 0.20 |
| RIS382SUN | 3/8 | 2 | 1,100 | 0.26 |
| RIS38212SUN | 3/8 | 2-1/2 | 1,000 | 0.33 |
| RIS38314CW | 3/8 | 3-1/4 | 800 | 0.39 |
| RIS12238SUN | 1/2 | 2-3/8 | 1,400 | 0.45 |
| RIS12212SUN | 1/2 | 2-1/2 | 1,350 | 0.48 |
| RIS12314SUN | 1/2 | 3-1/4 | 1,200 | 0.56 |
| RIS124SUN | 1/2 | 4 | 1,600 | 0.63 |



⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# LINKS & RINGS

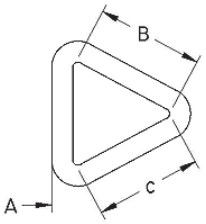
## RECTANGULAR LINK • 316 STAINLESS STEEL




- 316 Stainless Steel
- Working Load are based on “C” Length being used in full by webbing, & not under point or shock load

| Part # | A/Size (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| S0139R525 | 3/16 | 0.50 | 1.00 | 600 | 0.03 |
| S0139R550 | 3/16 | 0.50 | 2.00 | 550 | 0.05 |
| S0139R650 | 1/4 | 1.00 | 2.00 | 800 | 0.08 |
| S0139R865 | 5/16 | 1.50 | 2.50 | 1,200 | 0.19 |
| S0139R875 | 5/16 | 1.50 | 3.00 | 1,100 | 0.22 |

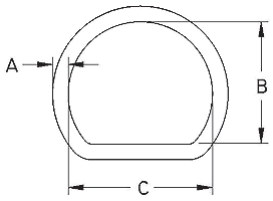
## TRIANGLE LINK • 316 STAINLESS STEEL




- 361 Stainless Steel
- Wire Formed

| Part # | A/Size (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| S0139T525 | 3/16 | 1.00 | 1.00 | 500 | 0.03 |
| S0139T650 | 1/4 | 2.00 | 2.00 | 750 | 0.10 |

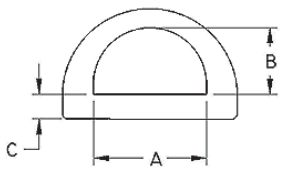
## “D” RING • 316 STAINLESS STEEL




- 316 Stainless Steel
- Working load ares based on “C” Length being used in full by webbing, and not under point or shock load

| Part # | A/Size (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| S0139X325 | 1/8 | 0.88 | 1.25 | 100 | 0.01 |
| S0139X525 | 3/16 | 1.06 | 1.38 | 300 | 0.04 |
| S0139X540 | 3/16 | 1.31 | 1.88 | 300 | 0.05 |
| S0139X625 | 1/4 | 1.25 | 1.50 | 500 | 0.06 |
| S0139X640 | 1/4 | 1.50 | 2.00 | 500 | 0.08 |
| S0139X650 | 1/4 | 1.75 | 2.50 | 500 | 0.10 |
| S0139X850 | 5/16 | 1.94 | 2.62 | 800 | 0.18 |
| S0139X865 | 5/16 | 2.19 | 3.12 | 800 | 0.22 |
| S0139X875 | 5/16 | 2.44 | 3.62 | 800 | 0.24 |

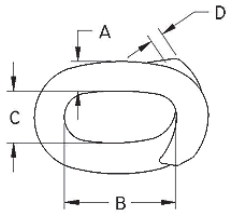
## HEAVY DUTY FORGED “D” RING • 316 STAINLESS STEEL




- 316 Stainless Steel
- Working loads are based on “A” Length being used in full by webbing, and not under point or shock load

| Part # | A/Size (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| S0222F025 | 1 | 0.65 | 0.23 | 1,200 | 0.06 |
| S0222F038 | 1-1/2 | 0.87 | 0.31 | 2,000 | 0.13 |
| S0222F050 | 2 | 1.10 | 0.37 | 4,000 | 0.24 |

## LAP LINK • STAINLESS STEEL / GALVANIZED




**316 STAINLESS STEEL**

| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| LKLS316 | 3/16 | 0.95 | 0.58 | 0.39 | 300 | 0.04 |
| LKLS14 | 1/4 | 1.25 | 0.63 | 0.50 | 400 | 0.10 |
| LKLS516 | 5/16 | 1.50 | 0.70 | 0.60 | 700 | 0.15 |

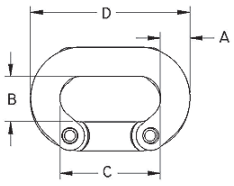
- 316 Stainless Steel
- Wire formed
- Special bulk orders on other sizes are available

**ELECTRO GALVANIZED**

| Part # | A/Size (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| LKLEG316 | 3/16 | 1.00 | 0.50 | 240 | 0.35 |
| LKLEG14 | 1/4 | 1.25 | 0.50 | 400 | 0.06 |
| LKLEG516 | 5/16 | 1.50 | 0.75 | 950 | 0.10 |
| LKLEG38 | 3/8 | 1.63 | 0.75 | 1,250 | 0.22 |
| LKLEG12 | 1/2 | 2.50 | 1.00 | 1,525 | 0.54 |

- Electro Galvanized
- Mild steel
- For use with Grade 30 chain only
- Not for overhead lifting or load securement

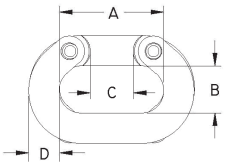
## FORGED CONNECTING LINK • STAINLESS STEEL / GALVANIZED




**316-NM STAINLESS STEEL**

| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S06600007 | 1/4 | 0.42 | 0.87 | 1.50 | 1,400 | 0.07 |
| S06600008 | 5/16 | 0.50 | 1.00 | 1.75 | 2,000 | 0.12 |
| S06600010 | 3/8 | 0.57 | 1.12 | 2.12 | 2,800 | 0.18 |

- 316-NM Stainless Steel
- Size & WLL are permanently forged into each part during production
- WLL are 25% of breaking load
- Do not use without riveting pins securely

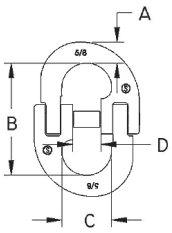



**ELECTRO GALVANIZED**

| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| WC661316 | 3/16 | 0.69 | 0.34 | 0.34 | 0.25 | 800 | 0.04 |
| WC66114 | 1/4 | 0.88 | 0.44 | 0.44 | 0.28 | 1,325 | 0.06 |
| WC661516 | 5/16 | 0.94 | 0.47 | 0.47 | 0.34 | 1,950 | 0.12 |
| WC66138 | 3/8 | 1.13 | 0.56 | 0.56 | 0.41 | 2,750 | 0.24 |
| WC66112 | 1/2 | 1.47 | 0.66 | 0.66 | 0.53 | 4,750 | 0.30 |
| WC66158 | 5/8 | 1.81 | 0.78 | 0.81 | 0.66 | 7,250 | 0.78 |

- Electro Galvanized
- Forged Steel
- Not for overhead lifting or load securement

## HAMMERLOCK LINK • 316 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S06550005 | 3/16 | 0.29 | 1.56 | 0.59 | 0.35 | 1.100 | 0.12 |
| S06550007 | 1/4 | 0.32 | 1.95 | 0.75 | 0.48 | 2,200 | 0.21 |
| S06550008 | 5/16 | 0.38 | 2.25 | 0.80 | 0.45 | 2,700 | 0.31 |
| S06550010 | 3/8 | 0.50 | 2.95 | 1.24 | 0.79 | 4,400 | 0.65 |
| S06550013 | 1/2 | 0.62 | 3.62 | 1.37 | 0.80 | 7,300 | 1.40 |
| S06550016 | 5/8 | 0.80 | 4.25 | 1.86 | 1.20 | 11,000 | 3.00 |

- 316-NM Stainless Steel
- WLL is based on gradual pull and not a shock load
- Be sure components are matched with the same WLL



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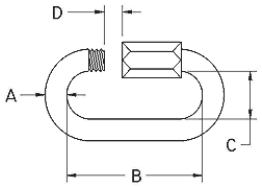
# LINKS & RINGS

## QUICK LINK • STAINLESS STEEL / GALVANIZED




**ELECTRO GALVANIZED**

| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| LKQEG18 | 1/8 | 0.13 | 1.14 | 0.39 | 0.18 | 220 | 0.02 |
| LKQEG316 | 3/16 | 0.19 | 1.54 | 0.51 | 0.26 | 660 | 0.06 |
| LKQEG14 | 1/4 | 0.25 | 1.77 | 0.55 | 0.30 | 880 | 0.08 |
| LKQEG516 | 5/16 | 0.31 | 2.28 | 0.71 | 0.37 | 1,760 | 0.18 |
| LKQEG38 | 3/8 | 0.38 | 2.44 | 0.79 | 0.43 | 2,200 | 0.22 |
| LKQEG12 | 1/2 | 0.50 | 3.19 | 0.94 | 0.57 | 3,300 | 0.54 |

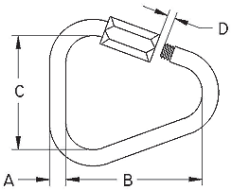
- Electro Galvanized
- Forged Steel
- Not for overhead lifting or load securement

**316 STAINLESS STEEL**

| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| LKQS18CW | 1/8 | 1.15 | 0.43 | 0.18 | 200 | 0.02 |
| LKQS532CW | 5/32 | 1.30 | 0.45 | 0.25 | 300 | 0.03 |
| LKQS316CW | 3/16 | 1.56 | 0.53 | 0.28 | 800 | 0.05 |
| LKQS14CW | 1/4 | 1.86 | 0.58 | 0.32 | 1,200 | 0.08 |
| LKQS932CW | 9/32 | 2.02 | 0.67 | 0.36 | 1,400 | 0.11 |
| LKQS516CW | 5/16 | 2.42 | 0.70 | 0.44 | 2,000 | 0.16 |
| LKQS2364CW | 23/64 | 2.49 | 0.85 | 0.45 | 3,000 | 0.24 |
| LKQS38CW | 3/8 | 2.78 | 0.78 | 0.52 | 3,500 | 0.29 |
| LKQS1332CW | 13/32 | - | - | - | 4,000 | 0.42 |
| LKQS12CW | 1/2 | 3.15 | 1.00 | 0.53 | 5,000 | 0.52 |

- 316 Stainless Steel
- Wire Formed
- Bulk orders on other types of quick links such as “Long Types” are available on special order.

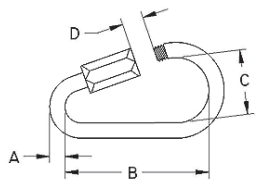
## DELTA QUICK LINK • 316 STAINLESS STEEL




- 316 Stainless Steel
- Bulk orders on other types of quick links such as “Long Types” are available on special order

| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0160DX05 | 3/16 | 1.53 | 1.18 | 0.23 | 400 | 0.05 |
| S0160DX06 | 1/4 | 1.70 | 1.37 | 0.31 | 7500 | 0.09 |
| S0160DX08 | 5/16 | 2.25 | 1.53 | 0.42 | 1,400 | 0.20 |
| S0160DX10 | 3/8 | 2.66 | 1.95 | 0.50 | 2,100 | 0.35 |
| S0160DX12 | 1/2 | 3.26 | 2.08 | 0.56 | 3,200 | 0.57 |

## PEAR QUICK LINK • 316 STAINLESS STEEL

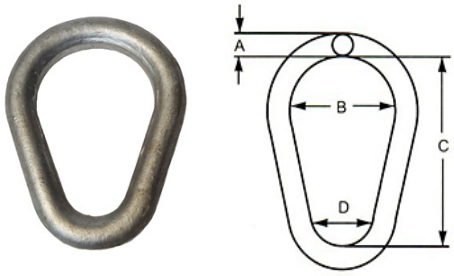



- 316 Stainless Steel
- Bulk orders on other types of quick links such as “Long Types” are available on special order

| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0160PR03 | 1/8 | 1.79 | 0.80 | 0.34 | 200 | 0.03 |
| S0160PR04 | 5/32 | 2.05 | 0.95 | 0.46 | 250 | 0.04 |
| S0160PR05 | 3/16 | 2.35 | 1.10 | 0.46 | 575 | 0.07 |
| S0160PR06 | 1/4 | 2.75 | 1.20 | 0.55 | 850 | 0.10 |
| S0160PR08 | 5/16 | 3.37 | 1.45 | 0.66 | 1,450 | 0.22 |
| S0160PR10 | 3/8 | 3.78 | 1.72 | 0.67 | 1,850 | 0.42 |
| S0160PR12 | 1/2 | 4.47 | 2.12 | 0.88 | 3,300 | 0.68 |

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

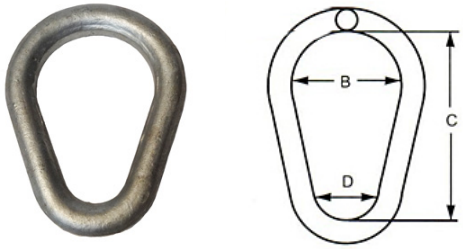
## WELDLESS SLING (PEAR) LINK • FORGED CARBON STEEL




| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| LKP38 | 3/8 | 1.50 | 2.25 | 0.75 | 2,160 | 0.23 |
| LKP12 | 1/2 | 2.00 | 3.00 | 1.00 | 3,480 | 0.55 |
| LKP58 | 5/8 | 2.50 | 3.75 | 1.25 | 5,040 | 1.12 |
| LKP34 | 3/4 | 3.00 | 4.50 | 1.50 | 7,200 | 1.92 |
| LKP78 | 7/8 | 3.50 | 5.25 | 1.75 | 9,960 | 2.92 |
| LKP1 | 1 | 4.00 | 6.00 | 2.00 | 12,960 | 5.04 |
| LKP114 | 1-1/4 | 5.00 | 8.00 | 2.50 | 20,040 | 5.00 |

- Forged carbon steel
- Hot dip galvanized or self colored

## WELDLESS SLING (PEAR) LINK • DROP-FORGED STEEL / HEAT TREATED




| Part # | Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| LKP38CT | 3/8 | 1.50 | 2.25 | 0.75 | 1,600 | 0.30 |
| LKP12CT | 1/2 | 2.00 | 3.00 | 1.00 | 2,900 | 0.60 |
| LKP58CT | 5/8 | 2.50 | 3.75 | 1.25 | 4,200 | 1.10 |
| LKP34CT | 3/4 | 3.00 | 4.50 | 1.50 | 6,000 | 1.90 |
| LKP78CT | 7/8 | 3.50 | 5.25 | 1.75 | 8,300 | 2.90 |
| LKP1CT | 1 | 4.00 | 6.00 | 2.00 | 10,800 | 4.40 |

- Drop forged steel, heat treated
- Design Factor: 6 to 1

## COLD SHUTS • ELECTRO GALVANIZED

For use with proof coil or BBB chain to repair or connect chain as well as to attach hooks, rings or other end fittings. Drive cold shut end through eye of fitting or link of chain and peen.

- Electro Galvanized
- Most inexpensive methold of repairing or connecting chain
- Not a make-shift or temporary repair. If sized, closed and rivited properly, the unheat treated cold shut is stronger than proof coil chain.
- Cold shuts are made from wire or bar of nominal size, i.e. 3/8” cold shuts are made from 3/8” wire. It is always recommended to use a size larger cold shut for an additional safety factor.
- Never use for overhead lifting

| Part # | Size (in) | Std Pack | Wt per 100 pcs (lb) |
|---|---|---|---|
| CS316 | 3/16 | 400 | 3 |
| CS14 | 1/4 | 200 | 6 |
| CS516 | 5/16 | 100 | 11 |
| CS38 | 3/8 | 100 | 17 |
| CS716 | 7/16 | 50 | 26 |
| CS12 | 1/2 | 50 | 38 |
| CS58 | 5/8 | 25 | 72 |
| CS34 | 3/4 | 25 | 126 |
| CS78 | 7/8 | 10 | 200 |
| CS1 | 1 | 10 | 290 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

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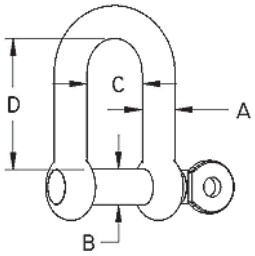
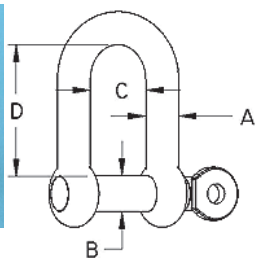
## STRAIGHT D SHACKLE W/ SCREW PIN • 316 STAINLESS STEEL




- 316 Stainless Steel
- Permanently marked with size & WLL
- Also available in Titanium

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SHSKD532SUN | 5/32 | 0.15 | 0.31 | 0.55 | 200 | 0.02 |
| SHSKD316SUN | 3/16 | 0.19 | 0.45 | 0.76 | 500 | 0.04 |
| SHSKD14SUN | 1/4 | 0.23 | 0.48 | 0.85 | 750 | 0.06 |
| SHSKD516SUN | 5/16 | 0.31 | 0.67 | 1.11 | 1,000 | 0.14 |
| SHSKD38SUN | 3/8 | 0.39 | 0.78 | 1.37 | 1,200 | 0.25 |
| SHSKD1532SUN | 15/32 | 0.46 | 0.95 | 1.66 | 1,500 | 0.43 |
| SHSKD12SUN | 1/2 | 0.54 | 1.09 | 1.84 | 2,500 | 0.66 |
| SHSKD58SUN | 5/8 | 0.61 | 1.25 | 2.01 | 3,000 | 0.90 |
| SHSKD34SUN | 3/4 | 0.74 | 1.46 | 2.57 | 4,000 | 1.62 |
| SHSKD78SUN | 7/8 | 0.86 | 1.60 | 2.92 | 5,000 | 2.49 |
| SHSKD1SUN | 1 | 0.96 | 1.95 | 3.45 | 6,000 | 3.63 |
| SHSKD114 | 1-1/4 | 1.25 | 2.50 | 4.35 | 9,000 | 7.42 |

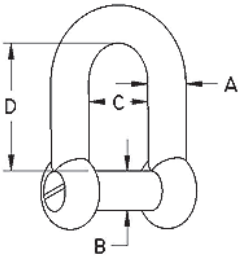
## STRAIGHT D SHACKLE W/ CAPTIVE PIN • 316 STAINLESS STEEL




- 316 Stainless Steel
- Screw pin is captive and not removable
- When it's fully opened, the end of the pin will sit flush with the inside of the shackle

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0115CP04 | 5/32 | 0.17 | 0.32 | 0.55 | 200 | 0.02 |
| S0115CP05 | 3/16 | 0.19 | 0.37 | 0.69 | 500 | 0.03 |
| S0115CP06 | 1/4 | 0.23 | 0.47 | 0.82 | 750 | 0.05 |
| S0115CP08 | 5/16 | 0.31 | 0.62 | 1.10 | 1,000 | 0.12 |
| S0115CP10 | 3/8 | 0.39 | 0.79 | 1.34 | 1,200 | 0.23 |
| S0115CP12 | 1/2 | 0.47 | 0.95 | 1.65 | 1,500 | 0.38 |

## STRAIGHT D SHACKLE W/ "NO SNAG" PIN • 316 STAINLESS STEEL



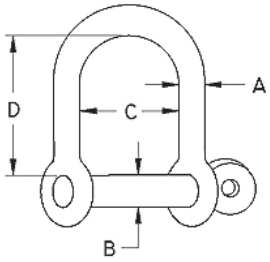

- 316 Stainless Steel
- Permanently marked with size & WLL
- The "no snag" pin sits flush with body of shackle
- Locking fluid is reconmmended with this type of shackle

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0115NS06 | 1/4 | 0.23 | 0.48 | 0.85 | 750 | 0.05 |
| S0115NS08 | 5/16 | 0.31 | 0.67 | 1.11 | 1,000 | 0.13 |
| S0115NS10 | 3/8 | 0.39 | 0.79 | 1.38 | 1,200 | 0.24 |
| S0115NS12 | 15/32 | 0.47 | 0.93 | 1.64 | 1,500 | 0.41 |
| S0115NS13 | 1/2 | 0.54 | 1.09 | 1.84 | 2,500 | 0.64 |
| S0115NS16 | 5/8 | 0.64 | 1.27 | 2.19 | 3,000 | 0.94 |
| S0115NS20 | 3/4 | 0.75 | 1.50 | 2.60 | 4,000 | 1.55 |
| S0115NS22 | 7/8 | 0.87 | 1.73 | 3.01 | 5,000 | 2.44 |
| S0115NS25 | 1 | 0.98 | 1.94 | 3.42 | 6,000 | 3.56 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# SHACKLES

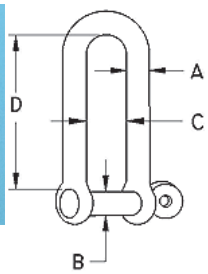
## WIDE D SHACKLE W/ SCREW PIN • 316 STAINLESS STEEL




- 316 Stainless Steel
- Precison cast
- Permanently marked with size & WLL

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S01140006 | 1/4 | 0.24 | 0.92 | 1.31 | 750 | 0.08 |
| S01140008 | 5/16 | 0.32 | 1.11 | 1.22 | 1,000 | 0.14 |
| S01140010 | 3/8 | 0.40 | 1.54 | 2.14 | 1,200 | 0.33 |
| S01140012 | 1/2 | 0.47 | 1.89 | 2.59 | 1,500 | 0.56 |

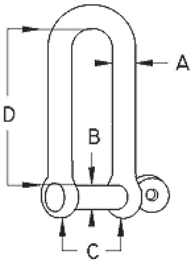
## LONG D SHACKLE W/ SCREW PIN • 316 STAINLESS STEEL




- 316 Stainless Steel
- Also available in titanium

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SHSKLD532 | 5/32 | 0.15 | 0.32 | 1.19 | 200 | 0.03 |
| SHSKLD316 | 3/16 | 0.19 | 0.43 | 1.50 | 500 | 0.05 |
| SHSKLD14 | 1/4 | 0.23 | 0.49 | 1.74 | 750 | 0.08 |
| SHSKLD516 | 5/16 | 0.31 | 0.68 | 2.31 | 1,000 | 0.18 |
| SHSKLD38 | 3/8 | 0.38 | 0.78 | 2.88 | 1,200 | 0.35 |
| SHSKLD12 | 1/2 | 0.47 | 0.93 | 3.50 | 1,500 | 0.62 |

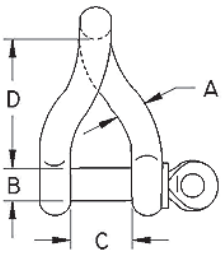
## LONG D SHACKLE W/ CAPTIVE PIN • 316 STAINLESS STEEL




- 316 Stainless Steel
- Screw pin is captive and not removable
- When it's fully opened, the end of the pin will sit flush with the inside of the shackle

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0138CP04 | 5/32 | 0.15 | 0.30 | 1.17 | 200 | 0.03 |
| S0138CP05 | 3/16 | 0.19 | 0.39 | 1.47 | 500 | 0.05 |
| S0138CP06 | 1/4 | 0.23 | 0.46 | 1.77 | 750 | 0.08 |
| S0138CP08 | 5/16 | 0.31 | 0.61 | 2.36 | 1,000 | 0.18 |
| S0138CP10 | 3/8 | 0.38 | 0.78 | 2.95 | 1,200 | 0.34 |
| S0138CP12 | 1/2 | 0.47 | 0.93 | 3.54 | 1,500 | 0.57 |

## TWIST SHACKLE W/ SCREW PIN • 316 STAINLESS STEEL



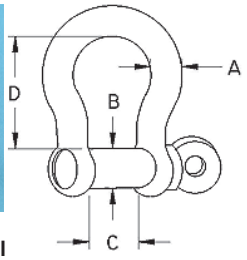

- 316 Stainless Steel
- Precison cast
- Permanently marked with size & WLL

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SHST532 | 5/32 | 0.16 | 0.30 | 0.63 | 200 | 0.02 |
| SHST316 | 3/16 | 0.19 | 0.38 | 0.83 | 500 | 0.04 |
| SHST14 | 1/4 | 0.23 | 0.42 | 1.00 | 750 | 0.07 |
| SHST516 | 5/16 | 0.31 | 0.55 | 1.30 | 1,000 | 0.16 |
| SHST38 | 3/8 | 0.38 | 0.71 | 1.80 | 1,200 | 0.30 |
| SHST12 | 1/2 | 0.47 | 0.78 | 2.20 | 1,500 | 0.51 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# SHACKLES

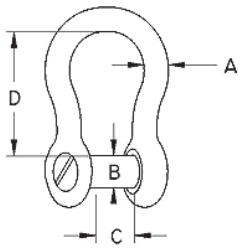
## BOW SHACKLE W/ SCREW PIN • 316 STAINLESS STEEL




- 316 Stainless Steel
- Drop forged
- Each item is load rated & permanently marked with size & WLL

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SHSKB532SUN | 5/32 | 0.16 | 0.33 | 0.75 | 200 | 0.02 |
| SHSKB316SUN | 3/16 | 0.19 | 0.43 | 0.94 | 500 | 0.04 |
| SHSKB14SUN | 1/4 | 0.23 | 0.48 | 1.08 | 750 | 0.07 |
| SHSKB516SUN | 5/16 | 0.31 | 0.67 | 1.46 | 1,000 | 0.16 |
| SHSKB38SUN | 3/8 | 0.39 | 0.79 | 1.77 | 1,200 | 0.26 |
| SHSKB1532SUN | 15/32 | 0.48 | 0.94 | 2.16 | 1,500 | 0.50 |
| SHSKB12 SUN | 1/2 | 0.51 | 1.04 | 2.33 | 2,500 | 0.77 |
| SHSKB58SUN | 5/8 | 0.63 | 1.25 | 3.00 | 3,000 | 1.21 |
| SHSKB34SUN | 3/4 | 0.74 | 1.50 | 3.34 | 4,000 | 1.80 |
| SHSKB78SUN | 7/8 | 0.86 | 1.72 | 3.85 | 5,000 | 2.90 |
| SHSKB1SUN | 1 | 0.96 | 1.95 | 4.42 | 6,000 | 4.34 |
| SHSKB114 | 1-1/4 | 1.24 | 2.50 | 5.44 | 9,000 | 9.02 |

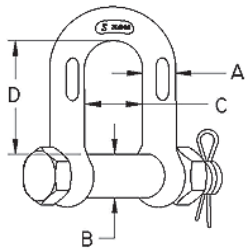
## BOW SHACKLE W/ NO SNAG PIN • 316 STAINLESS STEEL




- 316 Stainless Steel
- Permanently marked with size & WLL
- The “no snag” pin sits flush with body of shackle
- Locking fluid is reconmmended with this type of shackle

| Part # | A Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0116NS06 | 1/4 | 0.24 | 0.47 | 1.06 | 750 | 0.06 |
| S0116NS08 | 5/16 | 0.31 | 0.67 | 1.46 | 1,000 | 0.16 |
| S0116NS10 | 3/8 | 0.39 | 0.79 | 1.77 | 1,200 | 0.26 |
| S0116NS12 | 15/32 | 0.48 | 0.94 | 2.16 | 1,500 | 0.46 |
| S0116NS13 | 1/2 | 0.51 | 1.04 | 2.33 | 2,500 | 0.70 |
| S0116NS16 | 5/8 | 0.63 | 1.25 | 3.00 | 3,000 | 1.13 |
| S0116NS20 | 3/4 | 0.74 | 1.50 | 3.34 | 4,000 | 1.75 |
| S0116NS22 | 7/8 | 0.86 | 1.72 | 3.85 | 5,000 | 2.85 |
| S0116NS25 | 1 | 0.96 | 1.95 | 4.42 | 6,000 | 4.30 |

## BOLT CHAIN SHACKLE W/ OVERSIZE BOLT • 316 STAINLESS STEEL



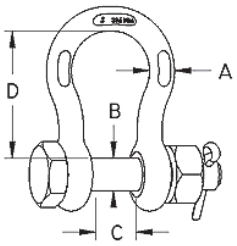

- 316-NM Stainless Steel
- Drop Forged
- I/A/W Fed. Specification RR-C-271D, Type IVB, Class 3, (except 316 stainless steel)

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0115SA07 | 1/4 | 0.31 | 0.46 | 0.87 | 1,000 | 0.11 |
| S0115SA08 | 5/16 | 0.38 | 0.52 | 1.02 | 1,300 | 0.18 |
| S0115SA10 | 3/8 | 0.44 | 0.65 | 1.24 | 1,500 | 0.31 |
| S0115SA12 | 7/16 | 0.50 | 0.75 | 1.43 | 2,000 | 0.50 |
| S0115SA13 | 1/2 | 0.63 | 0.79 | 1.58 | 3,000 | 0.74 |
| S0115SA16 | 5/8 | 0.75 | 1.05 | 1.94 | 4,000 | 1.41 |
| S0115SA20 | 3/4 | 0.88 | 1.20 | 2.40 | 6,000 | 2.36 |
| S0115SA22 | 7/8 | 1.01 | 1.45 | 2.88 | 8,000 | 3.46 |
| S0115SA25 | 1 | 1.13 | 1.67 | 3.20 | 10,000 | 4.85 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# SHACKLES

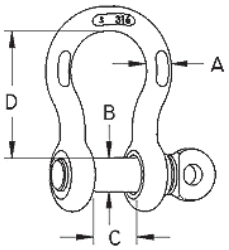
## BOLT ANCHOR SHACKLE W/ OVERSIZE BOLT • 316-NM STAINLESS STEEL




- 316-NM Stainless Steel
- Each item is load rated & permanently marked with size & WLL

| Part # | A Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SHSKBSA14 | 1/4 | 0.31 | 0.47 | 1.11 | 1,000 | 0.12 |
| SHSKBSA516 | 5/16 | 0.38 | 0.53 | 1.20 | 1,300 | 0.18 |
| SHSKBSA38 | 3/8 | 0.44 | 0.66 | 1.41 | 1,500 | 0.35 |
| SHSKBSA716 | 7/16 | 0.50 | 0.72 | 1.77 | 2,000 | 0.57 |
| SHSKBSA12 | 1/2 | 0.63 | 0.82 | 1.83 | 3,000 | 0.84 |
| SHSKBSA58 | 5/8 | 0.75 | 1.02 | 2.41 | 4,000 | 1.64 |
| SHSKBSA34 | 3/4 | 0.88 | 1.25 | 2.84 | 6,000 | 2.75 |
| SHSKBSA78 | 7/8 | 1.00 | 1.48 | 3.30 | 8,000 | 4.18 |
| SHSKBSA1 | 1 | 1.13 | 1.70 | 3.80 | 10,000 | 5.61 |
| SHSKBSA114 | 1-1/4 | 1.38 | 2.03 | 4.69 | 14,000 | 9.88 |

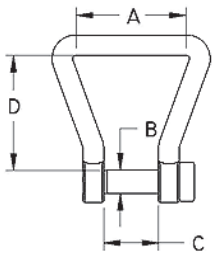
## ANCHOR SHACKLE W/ OVERSIZE SCREW PIN • 316-NM STAINLESS STEEL




- 316-NM Stainless Steel
- Each item is load rated & permanently marked with size & WLL

| Part # | A Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0116FS05 | 3/16 | 0.26 | 0.41 | 0.83 | 650 | 0.05 |
| S0116FS07 | 1/4 | 0.31 | 0.47 | 1.11 | 1,000 | 0.10 |
| S0116FS08 | 5/16 | 0.38 | 0.53 | 1.20 | 1,300 | 0.17 |
| S0116FS10 | 3/8 | 0.44 | 0.66 | 1.41 | 1,500 | 0.30 |
| S0116FS12 | 7/16 | 0.50 | 0.72 | 1.77 | 2,000 | 0.50 |
| S0116FS13 | 1/2 | 0.63 | 0.82 | 1.83 | 3,000 | 0.71 |
| S0116FS16 | 5/8 | 0.75 | 1.02 | 2.41 | 4,000 | 1.39 |
| S0116FS20 | 3/4 | 0.88 | 1.25 | 2.84 | 6,000 | 2.31 |
| S0116FS22 | 7/8 | 1.00 | 1.48 | 3.30 | 8,000 | 3.64 |
| S0116FS25 | 1 | 1.13 | 1.70 | 3.80 | 10,000 | 5.18 |
| S0116FS32 | 1-1/4 | 1.38 | 2.03 | 4.69 | 14,000 | 9.88 |

## WEBBING SHACKLE • 316-NM STAINLESS STEEL




- 316 Stainless Steel
- Precision cast

| Part # | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S02310025 | 1.00 | 0.19 | 0.33 | 1.14 | 200 | 0.03 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## TYLASKA LARGE BAIL SWIVEL SNAP SHACKLES • 15-5 PH STAINLESS STEEL



- Aerospace 15-5 PH stainless construction for extreme strength
- Patented release surface allows easy opening under load yet stays locked until released
- Unique trigger is easy to open & close with one hand
- All components superpolished for maximum corrosion resistance

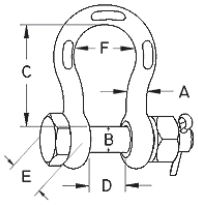
| Part # | A Size (in) | B (in) | C (in) | D (in) | E (in) | Thickness (in) | WLL (lb) | Breaking Strength (lb) | Wt (oz) | Recommended Boat Lengths (ft) |
|---|---|---|---|---|---|---|---|---|---|---|
| SHSNT12 | 3/4 | 25/32 | 1-1/8 | 1-3/16 | 4-1/2 | 0.45 | 6,000 | 12,000 | 7.20 | 30-45 |
| SHSNT20 | 3/32 | 15/16 | 1-3/8 | 1-1/2 | 5-9/16 | 0.57 | 10,000 | 20,000 | 14.30 | 40-70 |
| SHSNT30 | 1-1/4 | 1-1/8 | 1-27/32 | 1-29/32 | 7-3/16 | 0.78 | 15,000 | 30,000 | 29.00 | 60-80 |
| SHSNT50 | 2 | 1.88 | 3.19 | 3.24 | 12 | 1.25 | 25,000 | 50,000 | 145.30 | 100+-Maxi Boats |



**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# SHACKLES

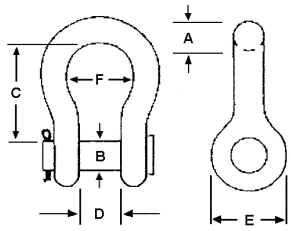
## BOLT ANCHOR SHACKLE • GALVANIZED / FORGED




- Hot dip galvanized
- Forged carbon steel
- Heat treated, with alloy pins
- Permanently marked with size and WLL
- Meets the requirements of Federal Specification RR-C-271d, Type IV B, Class 2 Grade A

| Part # | A Size (in) | B Bolt (in) | C (in) | D (in) | E (in) | F (in) | WLL (tons) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|
| SHGSA12 | 1/2 | 5/8 | 1.88 | 0.81 | 1.31 | 1.25 | 2.00 | 0.90 |
| SHGSA58 | 5/8 | 3/4 | 2.44 | 1.06 | 1.56 | 1.96 | 3.25 | 1.60 |
| SHGSA34 | 3/4 | 7/8 | 2.88 | 1.19 | 1.88 | 1.94 | 4.75 | 2.80 |
| SHGSA78 | 7/8 | 1 | 3.38 | 1.44 | 2.13 | 2.19 | 6.50 | 4.20 |
| SHGSA1 | 1 | 1-1/8 | 3.81 | 1.69 | 2.38 | 2.63 | 8.50 | 6.40 |
| SHGSA1188 | 1-1/8 | 1-1/4 | 4.25 | 1.75 | 2.63 | 2.88 | 9.50 | 8.30 |
| SHGSA114 | 1-1/4 | 1-3/8 | 4.69 | 2.00 | 3.00 | 3.13 | 12.00 | 11.70 |
| SHGSA138 | 1-3/8 | 1-1/2 | 5.31 | 2.13 | 3.25 | 3.50 | 13.50 | 15.60 |
| SHGSA112 | 1-1/2 | 1-5/8 | 5.69 | 2.31 | 3.50 | 3.75 | 17.00 | 19.70 |
| SHGSA134 | 1-3/4 | 2 | 7.06 | 2.88 | 4.25 | 4.88 | 25.00 | 32.60 |
| SHGSA2 | 2 | 2-1/4 | 7.75 | 3.31 | 4.88 | 5.44 | 35.00 | 48.30 |
| SHGSA214 | 2-1/4 | 2-1/2 | 9.25 | 3.63 | 5.25 | 5.50 | 45.00 | 67.00 |
| SHGSA212 | 2-1/2 | 2-3/4 | 10.75 | 4.13 | 5.88 | 7.25 | 55.00 | 94.00 |
| SHGSA3 | 3 | 3-1/4 | 13.75 | 4.88 | 6.75 | 7.63 | 85.00 | 145.00 |
| SHGSA312 | 3-1/2 | 3-3/4 | 16.75 | 5.75 | 8.13 | 9.50 | 120.00 | 250.00 |
| SHGSA4 | 4 | 4-1/4 | 17.50 | 6.63 | 9.00 | 10.75 | 150.00 | 358.00 |

## ROUND PIN ANCHOR SHACKLE • GALVANIZED / FORGED

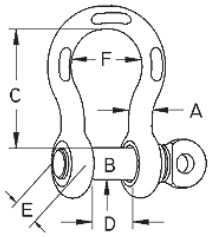



- Hot dip galvanized
- Forged carbon steel
- Heat treated, with alloy pins
- Permanently marked with size and WLL
- Meets the requirements of Federal Specification RR-C-171D, Type IV A, Class 1 Grade A

| Part # | A Size (in) | B Bolt (in) | C (in) | D (in) | E (in) | F (in) | WLL (tons) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|
| SHGRP38 | 3/8 | 7/16 | 1.44 | 0.63 | 0.97 | 1.00 | 1.00 | 0.33 |
| SHGRP12 | 1/2 | 5/8 | 1.88 | 0.81 | 1.25 | 1.25 | 2.00 | 0.76 |
| SHGRP58 | 5/8 | 3/4 | 2.44 | 1.06 | 1.56 | 1.69 | 3.25 | 1.44 |
| SHGRP34 | 3/4 | 7/8 | 2.88 | 1.19 | 1.88 | 1.94 | 4.75 | 2.30 |
| SHGRP78 | 7/8 | 1 | 3.38 | 1.44 | 2.13 | 2.19 | 6.50 | 3.50 |
| SHGRP1 | 1 | 1-1/8 | 3.81 | 1.63 | 2.38 | 2.60 | 8.50 | 5.00 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

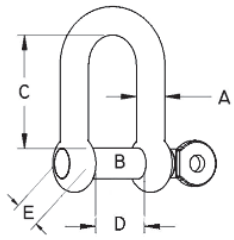
## SCREW PIN ANCHOR SHACKLE • GALVANIZED / FORGED




- Hot dip galvanized forged carbon steel
- Heat treated, with alloy pins
- Permanently marked with size and WLL
- Meets the requirements of Federal Specification RR-C-271d, Type IV B, Class 2 Grade A

| Part # | A/ Size (in) | B Pin Dia. (in) | C (in) | D (in) | E (in) | F (in) | WLL (tons) |
|---|---|---|---|---|---|---|---|
| SHG316 | 3/16 | 1/4 | 0.88 | 0.38 | 0.56 | 0.63 | 0.33 |
| SHG14 | 1/4 | 5/16 | 1.06 | 0.47 | 0.66 | 0.75 | 0.50 |
| SHG516 | 5/16 | 3/8 | 1.25 | 0.53 | 0.81 | 0.84 | 0.75 |
| SHG38 | 3/8 | 7/16 | 1.44 | 0.63 | 0.97 | 1.00 | 1.00 |
| SHG716 | 7/16 | 1/2 | 1.69 | 0.75 | 1.06 | 1.13 | 1.50 |
| SHG12 | 1/2 | 5/8 | 1.88 | 0.81 | 1.31 | 1.25 | 2.00 |
| SHG58 | 5/8 | 3/4 | 2.44 | 1.06 | 1.56 | 1.69 | 3.33 |
| SHG34 | 3/4 | 7/8 | 2.88 | 1.19 | 1.88 | 1.94 | 4.75 |
| SHG78 | 7/8 | 1 | 3.38 | 1.44 | 2.13 | 2.19 | 6.50 |
| SHG1 | 1 | 1-1/8 | 3.81 | 1.69 | 2.38 | 2.63 | 8.50 |
| SHG118 | 1-1/8 | 1-1/4 | 4.25 | 1.75 | 2.63 | 2.88 | 9.50 |
| SHG114 | 1-1/4 | 1-3/8 | 4.69 | 2.00 | 3.00 | 3.13 | 12.00 |
| SHG138 | 1-3/8 | 1-1/2 | 5.31 | 2.13 | 3.25 | 3.50 | 13.50 |
| SHG112 | 1-1/2 | 1-5/8 | 5.69 | 2.31 | 3.50 | 3.75 | 17.00 |
| SHG134 | 1-3/4 | 2 | 7.06 | 2.88 | 4.25 | 4.88 | 25.00 |
| SHG2 | 2 | 2-1/4 | 7.75 | 3.31 | 4.88 | 5.44 | 35.00 |
| SHG214 | 2-1/4 | 2-1/2 | 9.25 | 3.63 | 5.25 | 5.50 | 45.00 |
| SHG212 | 2-1/2 | 2-3/4 | 10.75 | 4.13 | 5.88 | 7.25 | 55.00 |
| SHG3 | 3 | 3-1/4 | 13.75 | 4.88 | 6.75 | 7.63 | 85.00 |

## CHAIN D SHACKLE • GALVANIZED / FORGED

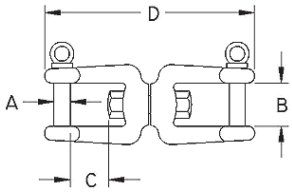



- Hot dip galvanized, forged carbon steel
- Heat treated, with alloy pins
- Permanently marked with size and WLL
- Meets the requirements of Federal Specification RR-C-271d, Type IV B, Class 2 Grade A

| Part # | A Size (in) | B Pin (in) | C (in) | D (in) | E (in) | WLL (lb) |
|---|---|---|---|---|---|---|
| SHGD14 | 1/4 | 5/16 | 0.88 | 0.50 | 0.63 | 0.50 |
| SHGD516 | 5/16 | 3/8 | 1.00 | 0.53 | 0.78 | 0.75 |
| SHGD38 | 3/8 | 7/16 | 1.28 | 0.69 | 0.97 | 1.00 |
| SHGD12 | 1/4 | 5/8 | 1.72 | 0.84 | 1.28 | 2.00 |
| SHGD58 | 5/8 | 3/4 | 2.03 | 1.06 | 1.50 | 3.25 |
| SHGD34 | 3/4 | 7/8 | 2.41 | 1.25 | 1.81 | 4.75 |
| SHGD78 | 7/8 | 1 | 2.91 | 1.72 | 2.13 | 6.50 |
| SHGD1 | 1 | 1-1/8 | 3.25 | 1.75 | 2.38 | 8.50 |
| SHGD118 | 1-1/8 | 1-1/4 | 3.56 | 1.81 | 2.63 | 9.50 |
| SHGD114 | 1-1/4 | 1-3/8 | 3.97 | 2.00 | 2.91 | 12.00 |
| SHGD138 | 1-3/8 | 1-1/2 | 4.56 | 2.19 | 3.25 | 13.50 |
| SHGD112 | 1-1/2 | 1-5/8 | 5.00 | 2.34 | 3.50 | 17.00 |
| SHGD134 | 1-3/4 | 2 | 6.00 | 2.88 | 4.38 | 25.00 |
| SHGD2 | 2 | 2-1/4 | 7.00 | 3.31 | 4.91 | 35.00 |
| SHGD212 | 2-1/2 | 2-3/4 | 8.00 | 4.13 | 5.88 | 55.00 |
| SHGD3 | 3 | 3-1/4 | 8.25 | 5.25 | 6.75 | 85.00 |

# SWIVELS

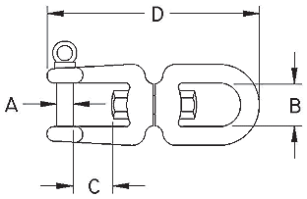
## JAW & JAW SWIVEL • 316 STAINLESS STEEL




- 316 Stainless Steel
- Commercial type swivel
- Permanently marked with size & WLL
- Also available with no snag shackle pins

| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SWSJJ14 | 1/4 | 0.50 | 0.43 | 2.50 | 600 | 0.15 |
| SWSJJ516 | 5/16 | 0.62 | 0.62 | 3.50 | 1,100 | 0.38 |
| SWSJJ38 | 3/8 | 0.75 | 0.87 | 4.44 | 1,540 | 0.74 |
| SWSJJ12 | 1/2 | 1.00 | 1.12 | 5.88 | 2,640 | 1.54 |
| SWSJJ58 | 5/8 | 1.25 | 1.37 | 7.31 | 4,750 | 2.63 |
| SWSJJ34 | 3/4 | 1.50 | 1.62 | 8.63 | 7,100 | 4.34 |

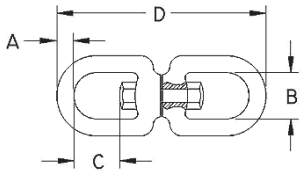
## EYE & JAW SWIVEL • 316 STAINLESS STEEL




- 316 Stainless Steel
- Commercial type
- Precision cast

| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SWSJE14 | 1/4 | 0.50 | 0.43 | 2.62 | 600 | 0.14 |
| SWSJE516 | 5/16 | 0.62 | 0.62 | 3.62 | 1,100 | 0.33 |
| SWSJE38 | 3/8 | 0.75 | 0.87 | 4.35 | 1,540 | 0.63 |
| SWSJE12 | 1/2 | 1.00 | 1.12 | 6.00 | 2,640 | 1.40 |
| SWSJE58 | 5/8 | 1.25 | 1.37 | 7.37 | 4,750 | 2.36 |
| SWSJE34 | 3/4 | 1.50 | 1.62 | 8.62 | 7,000 | 3.93 |

## EYE & EYE SWIVEL • 316 STAINLESS STEEL

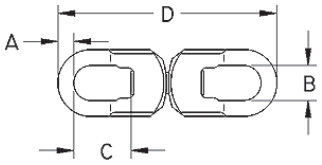



- 316 Stainless Steel
- Precison cast

| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SWSEE532 | 5/32 | 0.43 | 0.50 | 2.00 | 150 | 0.12 |
| SWSEE316 | 3/16 | 0.50 | 0.50 | 2.31 | 300 | 0.12 |
| SWSEE14 | 1/4 | 0.56 | 0.56 | 2.56 | 600 | 0.12 |
| SWSEE516 | 5/16 | 0.75 | 0.75 | 3.62 | 1,100 | 0.29 |
| SWSEE38 | 3/8 | 0.87 | 1.00 | 4.39 | 1,540 | 0.55 |
| SWSEE12 | 1/2 | 1.25 | 1.31 | 6.00 | 2,640 | 1.25 |
| SWSEE58 | 5/8 | 1.50 | 1.62 | 7.37 | 4,750 | 2.10 |
| SWSEE34 | 3/4 | 1.62 | 2.00 | 8.50 | 7,000 | 3.40 |
| SWSEE78 | 7/8 | 1.87 | 2.00 | 9.25 | 8,000 | 5.02 |
| SWSEE1 | 1 | 2.50 | 2.56 | 11.00 | 10,000 | 8.73 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

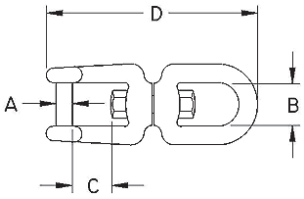
## HEAVY DUTY EYE & EYE SWIVEL • 316 STAINLESS STEEL




- 316 Stainless Steel
- Marked with size & WLL

| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0128HD07 | 1/4 | 0.50 | 0.68 | 3.25 | 750 | 0.27 |
| S0128HD08 | 5/16 | 0.62 | 0.87 | 3.62 | 1,400 | 0.52 |
| S0128HD10 | 3/8 | 0.75 | 1.00 | 4.62 | 2,000 | 0.88 |
| S0128HD13 | 1/2 | 1.00 | 1.37 | 6.00 | 3,300 | 2.00 |

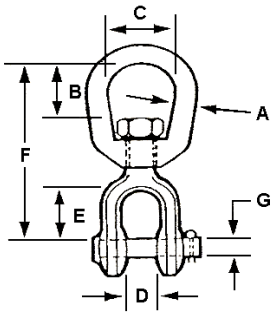
## EYE & JAW SWIVEL • 316 STAINLESS STEEL W/ NO SNAG PIN




| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0155NS06 | 1/4 | 0.50 | 0.43 | 2.62 | 600 | 0.14 |

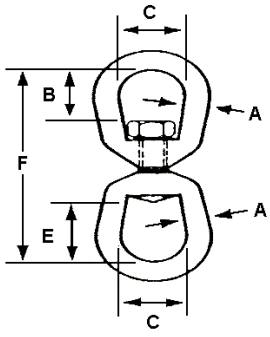
- 316 Stainless Steel
- Precision cast
- No snag shackle pin sits flush with body of swivel
- We recommend using thread locking fluid with this swivel

## EYE & JAW SWIVEL • HOT DIP GALVANIZED




| Part # | A/Size (in) | B (in) | C (in) | D (in) | E (in) | F (in) | G (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|---|
| SWJE14 | 1/4 | 0.69 | 0.75 | 0.38 | 0.88 | 2.69 | 0.25 | 850 | 0.22 |
| SWJE516 | 5/16 | 0.88 | 1.00 | 0.50 | 0.88 | 2.88 | 0.31 | 1,250 | 0.39 |
| SWJE38 | 3/8 | 0.94 | 1.25 | 0.63 | 1.00 | 3.50 | 0.38 | 2,250 | 0.71 |
| SWJE12 | 1/2 | 1.38 | 1.50 | 0.81 | 1.31 | 4.50 | 0.50 | 3,600 | 1.40 |
| SWJE58 | 5/8 | 1.63 | 1.75 | 1.00 | 1.50 | 5.31 | 0.63 | 5,200 | 2.30 |
| SWJE34 | 3/4 | 1.75 | 2.00 | 1.19 | 1.75 | 6.06 | 0.70 | 7,200 | 3.50 |

## EYE & EYE SWIVEL • HOT DIP GALVANIZED

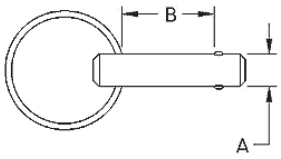



| Part # | A/Size (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| SWEE14 | 1/4 | 0.69 | 0.75 | 0.94 | 2.88 | 850 | 0.20 |
| SWEE516 | 5/16 | 0.88 | 1.00 | 1.13 | 3.63 | 1,250 | 0.38 |
| SWEE38 | 3/8 | 0.94 | 1.25 | 1.38 | 4.25 | 2,250 | 0.68 |
| SWEE12 | 1/2 | 1.38 | 1.50 | 1.94 | 5.63 | 3,600 | 1.40 |
| SWEE58 | 5/8 | 1.63 | 1.75 | 2.31 | 6.63 | 5,200 | 2.50 |
| SWEE34 | 3/4 | 1.75 | 2.00 | 2.56 | 7.20 | 7,200 | 3.80 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# QUICK PINS

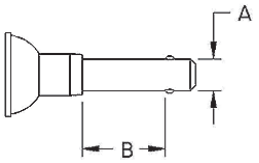
## QUICK PIN • 316 STAINLESS STEEL




- 316 Stainless Steel
- Precision cast

| Part # | A (in) | B (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|
| S03700515 | 3/16 | 0.50 | 2,575 | 0.01 |
| S03700525 | 3/16 | 1.00 | 2,575 | 0.01 |
| S03700540 | 3/16 | 1.50 | 2,575 | 0.02 |
| S03700550 | 3/16 | 2.00 | 2,575 | 0.02 |
| S03700715 | 1/4 | 0.50 | 4,600 | 0.02 |
| S03700725 | 1/4 | 1.00 | 4,600 | 0.03 |
| S03700740 | 1/4 | 1.50 | 4,600 | 0.03 |
| S03700750 | 1/4 | 2.00 | 4,600 | 0.04 |
| S03700825 | 5/16 | 1.00 | 7,200 | 0.04 |
| S03700840 | 5/16 | 1.50 | 7,200 | 0.05 |
| S03700850 | 5/16 | 2.00 | 7,200 | 0.05 |
| S03701025 | 3/8 | 1.00 | 10,300 | 0.08 |
| S03701040 | 3/8 | 1.50 | 10,300 | 0.10 |
| S03701050 | 3/8 | 2.00 | 10,300 | 0.12 |
| S03701065 | 3/8 | 2.50 | 10,300 | 0.14 |

## QUICKLOCK PIN • 316 STAINLESS STEEL

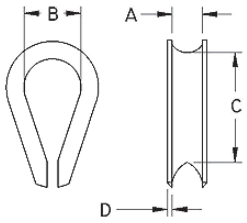



- 316 Stainless Steel
- Precision cast

| Part # | A (in) | B (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|
| S03750515 | 3/16 | 0.50 | 2,575 | 0.02 |
| S03750520 | 3/16 | 0.75 | 2,575 | 0.03 |
| S03750525 | 3/16 | 1.00 | 2,575 | 0.03 |
| S03750540 | 3/16 | 1.50 | 2,575 | 0.04 |
| S03750550 | 3/16 | 2.00 | 2,575 | 0.04 |
| S03750715 | 1/4 | 0.50 | 4,600 | 0.04 |
| S03750725 | 1/4 | 1.00 | 4,600 | 0.04 |
| S03750740 | 1/4 | 1.50 | 4,600 | 0.05 |
| S03750750 | 1/4 | 2.00 | 4,600 | 0.05 |
| S03750820 | 5/16 | 0.75 | 7,200 | 0.05 |
| S03750825 | 5/16 | 1.00 | 7,200 | 0.06 |
| S03750840 | 5/16 | 1.50 | 7,200 | 0.08 |
| S03750850 | 5/16 | 2.00 | 7,200 | 0.10 |
| S03750865 | 5/16 | 2.50 | 7,200 | 0.12 |
| S03751025 | 3/8 | 1.00 | 10,300 | 0.08 |
| S03751040 | 3/8 | 1.50 | 10,300 | 0.10 |
| S03751050 | 3/8 | 2.00 | 10,300 | 0.12 |
| S0375-065 | 3/8 | 2.50 | 10,300 | 0.14 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

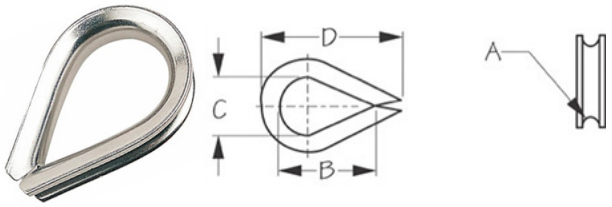
## LIGHT DUTY THIMBLE • 304 STAINLESS STEEL




- 304 Stainless Steel

| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| THS116SUN | 1/16 | 0.10 | 0.28 | 0.48 | 0.03 | 0.30/100 |
| THS564CW | 5/64 | 0.09 | 0.31 | 0.62 | 0.03 | 0.40/100 |
| THS18SUN | 3/32-1/8 | 0.12 | 0.38 | 0.72 | 0.03 | 0.50/100 |
| THS532SUN | 5/32 | 0.14 | 0.43 | 0.73 | 0.04 | 0.74/100 |
| THS316SUN | 3/16 | 0.20 | 0.55 | 0.78 | 0.04 | 0.01 |
| THS14SUN | 1/4 | 0.25 | 0.69 | 0.95 | 0.05 | 0.02 |
| THS516SUN | 5/16 | 0.34 | 0.78 | 1.40 | 0.06 | 0.04 |
| THS38SUN | 3/8 | 0.42 | 0.94 | 1.70 | 0.06 | 0.06 |
| THS12SUN | 1/2 | 0.54 | 1.20 | 1.85 | 0.06 | 0.08 |
| THS916SUN | 9/16 | 0.60 | 1.36 | 2.05 | 0.06 | 0.10 |
| THS58SUN | 5/8 | 0.68 | 1.45 | 2.37 | 0.07 | 0.17 |
| THS34SUN | 3/4 | 0.76 | 1.60 | 2.63 | 0.08 | 0.21 |
| THS78SUN | 7/8 | 0.95 | 1.90 | 3.10 | 0.09 | 0.39 |
| THS1SUN | 1 | 1.05 | 2.08 | 3.36 | 0.09 | 0.49 |

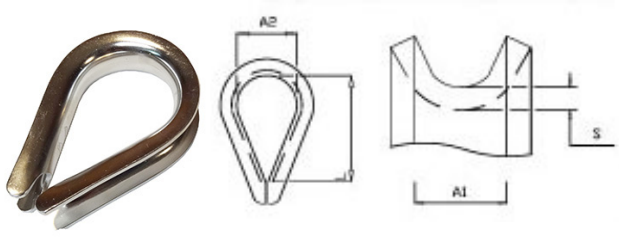
## HEAVY DUTY THIMBLE • 304 STAINLESS STEEL




- 304 Stainless Steel
- Stamped
- Manufactured by Sea-Dog

| Part # | A (in) | B (in) | C (in) | D (in) | Wt (lb) |
|---|---|---|---|---|---|
| THSHR58 | 5/8 | 2-5/8 | 1-9/16 | 3-7/16 | 0.29 |
| THSHR34 | 3/4 | 3-7/16 | 2 | 4-1/4 | 0.63 |
| THSHR78 | 7/8 | 3-3/4 | 2-3/16 | 5 | 0.82 |
| THSHR1 | 1 | 4-1/2 | 2-1/2 | 5-15/16 | 1.48 |
| THSHR118 | 1-1/8 | 5-1/4 | 3 | 6-13/16 | 1.67 |
| THSHR114 | 1-1/4 | 5-1/8 | 3-1/8 | 8-1/16 | 2.29 |

## EXTRA HEAVY DUTY THIMBLE • 304 STAINLESS STEEL



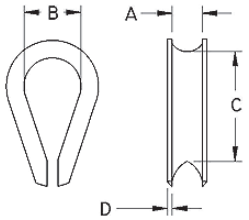

- 304 Stainless Steel
- Stamped
- Manufactured by Blue Wave

| Part # | A1 (mm) | A1 (in) | A2 (mm) | L (mm) | S (mm) | Wt (lb) |
|---|---|---|---|---|---|---|
| THSHRX14 | 14 | 9/16 | 32 | 57 | 3 | 0.05 |
| THSHRX16 | 16 | 5/8 | 40 | 67 | 3 | 0.06 |
| THSHRX18 | 18 | 11/16 | 45 | 75 | 4 | 0.10 |
| THSHRX20 | 20 | 3/4 | 50 | 80 | 4 | 0.15 |
| THSHRX22 | 22 | 7/8 | 56 | 90 | 5 | 0.21 |
| THSHRX34 | 34 | 1-1/2 | 100 | 160 | 6 | 0.80 |
| THSHRX38 | 38 | 1-3/4 | 115 | 184 | 8 | 1.33 |
| THSHRX40 | 40 | 2 | 120 | 192 | 8 | 1.45 |
| THSHRX42 | 42 | 2-1/4 | 150 | 240 | 8 | 1.65 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# THIMBLES

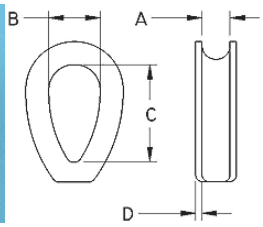
## HEAVY DUTY WIRE ROPE THIMBLE • 316 STAINLESS STEEL




- 316 Stainless Steel
- For use with wire rope
- Dimmensions & working load are to Federal Specification: FF-T-276B, Type III

| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| THSHW18CW | 1/8 | - | - | - | - | 0.02 |
| THSHW316SUN | 3/16 | 0.23 | 0.71 | 1.35 | 0.05 | 0.03 |
| THSHW14SUN | 1/4 | 0.28 | 0.90 | 1.60 | 0.07 | 0.08 |
| THSHW516SUN | 5/16 | 0.35 | 1.08 | 1.85 | 0.07 | 0.10 |
| THSHW38SUN | 3/8 | 0.40 | 1.12 | 2.00 | 0.11 | 0.23 |
| THSHW716SUN | 7/16 | - | - | - | - | - |
| THSHW12SUN | 1/2 | 0.55 | 1.52 | 2.62 | 0.15 | 0.51 |
| THSHW916SUN | 9/16 | 0.62 | 1.48 | 2.94 | 0.15 | 0.54 |
| THSHW58SUN | 5/8 | 0.65 | 1.78 | 3.00 | 0.15 | 0.71 |
| THSHW34SUN | 3/4 | 0.85 | 2.02 | 3.83 | 0.22 | 1.61 |
| THSHW78SUN | 7/8 | 0.95 | 2.30 | 4.08 | 0.22 | 1.87 |
| THSHW1SUN | 1 | 1.12 | 2.56 | 4.80 | 0.22 | 2.56 |
| THSHW118SUN | 1-1/8 | 1.30 | 3.00 | 5.87 | 0.22 | 4.00 |
| THSHW114SUN | 1-1/4 | 1.38 | 3.00 | 6.25 | 0.22 | 4.24 |

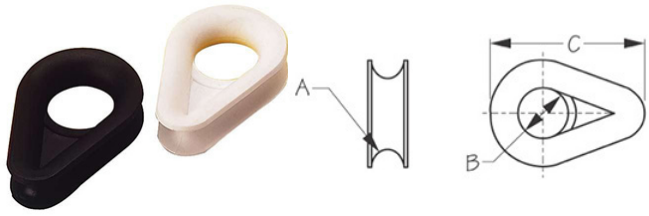
## EXTRA HEAVY DUTY WIRE ROPE THIMBLE • 304 STAINLESS STEEL




- 304 Stainless Steel
- Precision cast extra heavy duty thimble
- Not formed from flat steel
- Exceptional resistance to wear & crushing

| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0123XH06 | 1/4 | 0.27 | 0.62 | 1.08 | 0.06 | 0.08 |
| S0123XH08 | 5/16 | 0.32 | 0.94 | 1.68 | 0.04 | 0.11 |
| S0123XH10 | 3/8 | 0.42 | 1.10 | 2.00 | 0.06 | 0.23 |
| S0123XH13 | 1/2 | 0.45 | 1.37 | 2.44 | 0.09 | 0.39 |
| S0123XH16 | 5/8 | 0.62 | 1.76 | 3.18 | 0.09 | 0.67 |
| S0123XH20 | 3/4 | 0.77 | 2.15 | 3.70 | 0.09 | 1.02 |
| S0123XH22 | 7/8 | 0.87 | 2.38 | 3.92 | 0.12 | 1.32 |
| S0123XH25 | 1 | 0.96 | 2.76 | 4.50 | 0.13 | 2.00 |

## NYLON THIMBLE • INJECTION MOLDED




- Injection molded nylon thimble
- Available in White & Black, additional sizes available on special order
- Manufactured by Sea-Dog

| Part # | A (in) | B (in) | C (in) | Color | Wt (lb) |
|---|---|---|---|---|---|
| THN14 | 1/4 | 9/16 | 1-9/16 | White | 0.01 |
| THN38 | 3/8 | 1 | 2-11/16 | White | 0.03 |
| THN12 | 1/2 | 1 | 2-7/8 | White | 0.04 |
| THN121 | 1/2 | 1 | 2-7/8 | Black | 0.04 |
| THN58 | 5/8 | 1-1/16 | 3-1/8 | White | 0.04 |
| THN581 | 5/8 | 1-1/16 | 3-1/8 | Black | 0.04 |
| THN34 | 3/4 | 1-5/32 | 3-9/16 | White | 0.07 |
| THN1 | 1 | 1-3/4 | 4-15/16 | White | 0.18 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## FIBER ROPE THIMBLE • GALVANIZED

- Hot Dip Galvanized

| Part # | Rope Size (in) | Overall Length (in) | Inside Length (in) | Wt (lb) |
|---|---|---|---|---|
| THG18 | 1/8 | 1-5/8 | 1-7/32 | 0.02 |
| THG316 | 3/16 | 1-5/8 | 1-7/32 | 0.02 |
| THG14 | 1/4 | 1-7/8 | 1-3/8 | 0.03 |
| THG516 | 5/16 | 2-1/8 | 1-1/2 | 0.05 |
| THG38 | 3/8 | 2-5/8 | 1-7/8 | 0.09 |
| THG716 | 7/16 | 2-3/4 | 1-7/8 | 0.17 |
| THG12 | 1/2 | 2-7/8 | 2 | 0.17 |
| THG58 | 5/8 | 3-3/8 | 2-7/32 | 0.30 |
| THG34 | 3/4 | 3-7/8 | 2-1/2 | 0.40 |
| THG78 | 7/8 | 4-9/16 | 3 | 0.59 |
| THG1 | 1 | 5 | 3-7/32 | 0.96 |
| THG118 | 1-1/8 | 5-3/8 | 3-9/16 | 1.09 |
| THG114 | 1-1/4 | 5-3/4 | 3-9/16 | 1.46 |
| THG112 | 1-1/2 | 7 | 4-5/16 | 2.47 |
| THG134 | 1-3/4 | 8-1/2 | 5-1/4 | 4.60 |
| THG2 | 2 | 10 | 6-5/8 | 5.90 |
| THG214 | 2-1/4 | - | - | - |
| THG212 | 2-1/2 | - | - | - |

## HEAVY DUTY WIRE ROPE THIMBLE • GALVANIZED

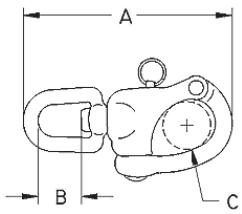
- Hot dip galvanized
- Please call for product dimensions & WLL

| Part # | Size (in) | Wt (lb) |
|---|---|---|
| THHD14 | 1/4 | 0.08 |
| THHD516 | 516 | 0.14 |
| THHD38 | 3/8 | 0.25 |
| THHD716 | 7/16 | 0.36 |
| THHD12 | 1/2 | 0.51 |
| THHD58 | 5/8 | 0.75 |
| THHD34 | 3/4 | 1.47 |
| THHD78 | 7/8 | 1.85 |
| THHD1 | 1 | 3.00 |
| THHD118 | 1-1/8 - 1-1/4 | 3.80 |
| THHD114 | 1-1/4 - 1-3/8 | 8.60 |
| THHD112 | 1-1/2 | 11.40 |
| THHD134 | 1-3/4 | 17.90 |
| THHD2 | 2 | 38.00 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# CLIPS & SNAPS

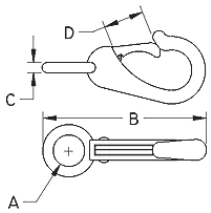
## SWIVEL SNAP SHACKLE • 316 STAINLESS STEEL




| Part # | A/Size (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| S01570001 | 2-3/4 | 0.50 | 0.57 | 1,000 | 0.13 |
| S01570002 | 3-1/2 | 0.62 | 0.75 | 1,500 | 0.28 |
| S01570003 | 4-3/4 | 0.85 | 1.05 | 2,000 | 0.67 |

- 316 Stainless Steel
- Breakload is approximately 4 times the work load limit

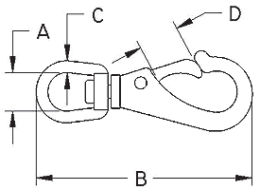
## FIXED EYE SNAP • 316 STAINLESS STEEL




| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SNS2490CW | 7/16 | 2.10 | 0.15 | 0.22 | 100 | 0.05 |
| SNS2491CW | 5/8 | 2.71 | 0.19 | 0.37 | 200 | 0.10 |
| SNS2492CW | 3/4 | 3.12 | 0.20 | 0.50 | 250 | 0.13 |
| SNS2493CW | 3/4 | 3.75 | 0.28 | 0.60 | 300 | 0.24 |

- 316 Stainless Steel
- Breakload is approximately 4 times the work load limit

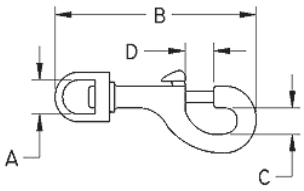
## SWIVEL EYE SNAP • 316 STAINLESS STEEL




| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SNS2511 | 5/8 | 3.37 | 0.20 | 0.40 | 100 | 0.14 |
| SNS2512 | 3/4 | 3.87 | 0.24 | 0.47 | 200 | 0.22 |
| SNS2513 | 7/8 | 4.62 | 0.27 | 0.51 | 300 | 0.35 |

- 316 Stainless Steel

## SWIVEL BOLT SNAP • 316 STAINLESS STEEL

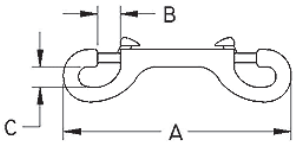



| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SNS22538CW | 3/8 | 2.73 | 0.32 | 0.28 | 100 | 0.06 |
| SNS22512CW | 1/2 | 3.16 | 0.36 | 0.37 | 200 | 0.09 |
| SNS22558CW | 5/8 | 3.44 | 0.43 | 0.36 | 250 | 0.11 |
| SNS22534CW | 3/4 | 3.60 | 0.43 | 0.36 | 300 | 0.12 |
| SNS2251CW | 1 | 4.14 | 0.44 | 0.42 | 325 | 0.15 |
| SNS225114CW | 1-1/4 | 4.63 | 0.48 | 0.53 | 350 | 0.20 |

- 316 Stainless Steel
- Easy connection & disconnection from either end

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

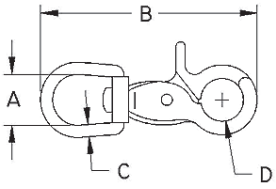
## DOUBLE BOLT SNAP • 316 STAINLESS STEEL




| Part # | A/Size (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| SNS161 | 3-1/2 | 0.25 | 0.33 | 100 | 0.09 |
| SNS162 | 4 | 0.37 | 0.43 | 200 | 0.15 |
| SNS163 | 4-3/4 | 0.48 | 0.47 | 250 | 0.19 |

- 316 Stainless Steel
- Easy connection & disconnection from either end.

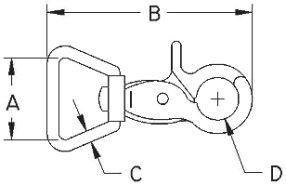
## TRIGGER SNAP EYE BAIL • 316 STAINLESS STEEL




| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| SNS5013CW | 1/2 | 2.62 | 0.15 | 0.43 | 200 | 0.11 |
| SNS5015 | 5/8 | 2.65 | 0.20 | 0.43 | 200 | 0.11 |

- 316 Stainless Steel

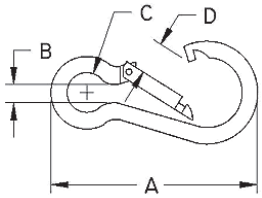
## TRIGGER SNAP D BAIL • 316 STAINLESS STEEL




| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0192-0001 | 5/8 | 2.43 | 0.23 | 0.43 | 200 | 0.12 |
| S0192-0002 | 3/4 | 2.50 | 0.23 | 0.43 | 200 | 0.12 |
| S0192-0003 | 1 | 2.65 | 0.22 | 0.43 | 200 | 0.13 |

- 316 Stainless Steel

## SPRING CLIP / ALPINE HOOK• 316 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| HKA316 | 3/16 | 2.00 | 0.24 | 0.32 | 0.25 | 120 | 0.04 |
| HKA14 | 1/4 | 2.38 | 0.27 | 0.36 | 0.27 | 170 | 0.06 |
| HKA932 | 9/32 | 2.75 | 0.37 | 0.45 | 0.34 | 200 | 0.10 |
| HKA516 | 5/16 | 3.13 | 0.37 | 0.48 | 0.38 | 280 | 0.15 |
| HKA38 | 3/8 | 3.88 | 0.47 | 0.63 | 0.54 | 400 | 0.28 |
| HKA716 | 7/16 | 4.63 | 0.55 | 0.75 | 0.65 | 540 | 0.41 |
| HKA12 | 1/2 | 6.25 | 0.79 | 1.03 | 0.95 | 900 | 0.79 |

- 316 Stainless Steel
- Clip is stamped with “316” & WLL
- Commercial grade

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**



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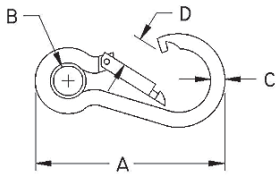
# CLIPS & SNAPS

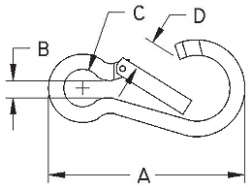
## SPRING CLIP / ALPINE HOOK WITH EYE • 316 STAINLESS STEEL




- 316 Stainless Steel
- Each clip is stamped with “316” & WLL
- Commercial grade

| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| HKAE316 | 3/16 | 2.00 | 0.24 | 0.20 | 0.25 | 120 | 0.04 |
| HKAE14 | 1/4 | 2.38 | 0.30 | 0.24 | 0.27 | 150 | 0.06 |
| HKAE932 | 9/32 | 2.75 | 0.32 | 0.28 | 0.34 | 200 | 0.10 |
| HKAE516 | 5/16 | 3.13 | 0.40 | 0.31 | 0.38 | 280 | 0.15 |
| HKAE38 | 3/8 | 3.88 | 0.50 | 0.39 | 0.54 | 400 | 0.28 |
| HKAE716 | 7/16 | 4.71 | 0.60 | 0.43 | 0.65 | 500 | 0.41 |
| HKAE12 | 1/2 | 6.25 | 0.87 | 0.51 | 0.95 | 900 | 0.79 |

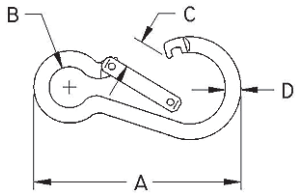
## SPRING CLIP WITH KEY LOCK • 316 STAINLESS STEEL




- 316 Stainless Steel
- Has key lock mechanism, each clip is proof tested & stamped with the break load in kilograms, conversion: kg x 2.2 = lb

| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S0120K050 | 3/16 | 2.00 | 0.20 | 0.31 | 0.29 | 200 | 0.04 |
| S0120K060 | 1/4 | 2.38 | 0.21 | 0.35 | 0.37 | 250 | 0.07 |
| S0120K070 | 9/32 | 2.88 | 0.33 | 0.46 | 0.40 | 300 | 0.10 |
| S0120K080 | 5/16 | 3.25 | 0.33 | 0.44 | 0.43 | 400 | 0.16 |
| S0120K100 | 3/8 | 4.00 | 0.40 | 0.44 | 0.60 | 600 | 0.30 |
| S0120K120 | 7/16 | 4.75 | 0.57 | 0.69 | 0.70 | 800 | 0.43 |
| S0120K160 | 1/2 | 6.38 | 0.75 | 0.87 | 1.18 | 1,000 | 0.78 |

## SPRING CLIP WITH SPECIAL GATE • 316 STAINLESS STEEL

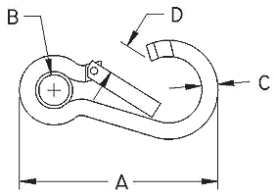



| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S01420080 | 5/16 | 3.25 | 0.45 | 0.54 | 0.31 | 500 | 0.16 |
| S01420100 | 3/8 | 4.00 | 0.56 | 0.62 | 0.38 | 700 | 0.30 |
| S01420120 | 7/16 | 4.75 | 0.70 | 0.85 | 0.43 | 1,000 | 0.43 |

- 316 Stainless Steel
- Each clip is proof tested & stamped with the break load in kilograms, conversion: kg x 2.2 = lb

* Shown above with eye, availble on special order

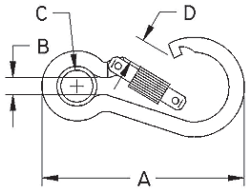
## SPRING CLIP WITH EYE & KEY LOCK • 316 STAINLESS STEEL




| Part # | Size/C (in) | A (in) | B (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S0121K050 | 3/16 | 2.00 | 0.24 | 0.29 | 200 | 0.04 |
| S0121K060 | 1/4 | 2.38 | 0.27 | 0.37 | 250 | 0.07 |
| S0121K070 | 9/32 | 2.88 | 0.35 | 0.40 | 300 | 0.10 |
| S0121K080 | 5/16 | 3.25 | 0.39 | 0.43 | 400 | 0.16 |
| S0121K100 | 3/8 | 4.00 | 0.45 | 0.66 | 600 | 0.30 |
| S0121K120 | 7/16 | 4.75 | 0.59 | 0.70 | 800 | 0.43 |
| S0121K160 | 1/2 | 6.38 | 0.87 | 1.18 | 1,000 | 0.78 |

- 316 Stainless Steel
- Key lock mechanism, each clip is proof tested & stamped with the break load in kilograms, conversion: kg x 2.2 = lb

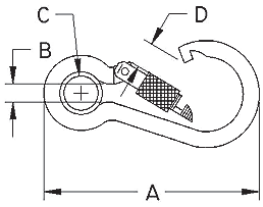
## KEY LOCK SPRING CLIP • 316 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| SNK55810 | 3/8 | 4.00 | 0.42 | 0.44 | 0.51 | 800 | 0.32 |
| SNK55812 | 7/16 | 5.00 | 0.57 | 0.59 | 0.61 | 1,000 | 0.46 |

- 316 Stainless Steel
- Has key lock mechanism, screw lock nut prevents accidental opening
- Eyelet is removable
- Each clip is proof tested and stamped with the break in kilograms, conversion: kg x 2.2 = lb

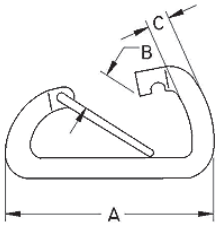
## SCREW LOCK SPRING CLIP • 316 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S01810060 | 1/4 | 2.38 | 0.23 | 0.25 | 0.31 | 250 | 0.07 |
| S01810080 | 5/16 | 3.13 | 0.37 | 0.40 | 0.27 | 400 | 0.16 |
| S01810100 | 3/8 | 4.00 | 0.46 | 0.48 | 0.45 | 600 | 0.30 |
| S01810120 | 7/16 | 4.63 | 0.55 | 0.61 | 0.59 | 800 | 0.44 |
| S01810140 | 15/32 | 5.55 | 0.63 | 0.83 | 0.83 | 1,000 | 0.61 |

- 316 Stainless Steel
- Eyelet is removable
- Screw lock nut prevents accidental opening
- Commercial grade

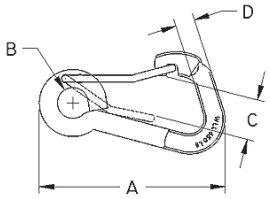
## SPRING CLIP WITH WIRE LEVER • 316 STAINLESS STEEL




| Part # | A/Size (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|
| S01410080 | 3.00 | 0.62 | 0.31 | 700 | 0.15 |
| S01410100 | 4.00 | 0.75 | 0.40 | 1,350 | 0.29 |

- 316 Stainless Steel
- Features torsion spring clip
- Each clip is proof tested and stamped with the break load in kilograms, conversion: kg x 2.2 = lb

## ASYMMETRICAL HARNESS CLIP WITH WIRE LEVER • 316 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S01720060 | 1/4 | 2.38 | 0.31 | 0.43 | 0.23 | 260 | 0.07 |
| S01720080 | 5/16 | 3.25 | 0.52 | 0.62 | 0.31 | 750 | 0.16 |
| S01720100 | 3/8 | 4.00 | 0.67 | 0.69 | 0.39 | 1,200 | 0.30 |
| S01720120 | 1/2 | 5.00 | 0.85 | 0.90 | 0.50 | 2,000 | 0.52 |
| *S0172S120 | 1/2 | 5.00 | 0.85 | 0.90 | 0.50 | 2,000 | 0.52 |

- 316 Stainless Steel
- Forged end, stamped with WLL (lb)
- Features long lasting torsion spring gate

* Straight back version



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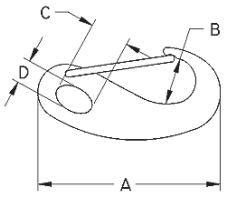
# CLIPS & SNAPS

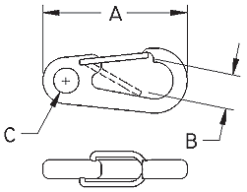
## SPRING GATE SNAP WITH WIRE LEVER • 316 STAINLESS STEEL




| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| W2480I | 2 | 0.38 | 0.40 | 0.25 | 150 | 0.05 |
| W2481I | 2-3/4 | 0.42 | 0.61 | 0.39 | 350 | 0.13 |
| W2482I | 3-3/4 | 0.55 | 0.87 | 0.59 | 500 | 0.32 |

- 316 Stainless Steel
- Wire formed & drop forged

## MINI CLIP WITH WIRE LEVER • 316 STAINLESS STEEL

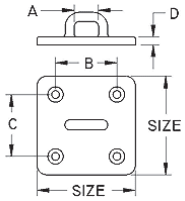



| Part # | A/Size (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S01850035 | 1-3/8 | 0.23 | 0.20 | 0.16 | 65 | 0.02 |

- 316 Stainless Steel
- Wire formed & drop forged

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## HEAVY DUTY SQUARE PAD EYE • 316 STAINLESS STEEL

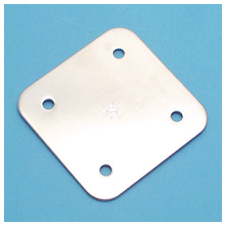


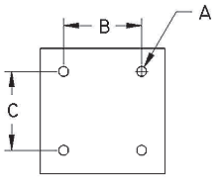

| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S37040000 | 3 | 0.94 | 2.00 | 2.00 | 0.25 | 3,000 | 0.66 |

- 316 Stainless Steel
- Heavy duty one piece precision casting without welds
- Use 1/4" Fasteners

* For maximum load distribution use HD backplate

## HEAVY DUTY SQUARE BACKPLATE • 316 STAINLESS STEEL

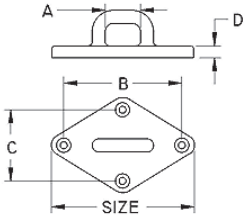





| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S37040001 | 3 | 0.25 | 2.00 | 2.00 | 0.10 | N/A | 0.28 |

- 316 Stainless Steel
- For maximum load distribution with the heavy duty square pad eye

## HEAVY DUTY DIAMOND PAD EYE • 316 STAINLESS STEEL

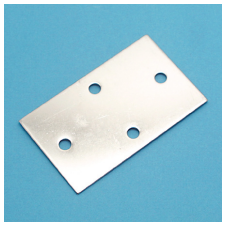


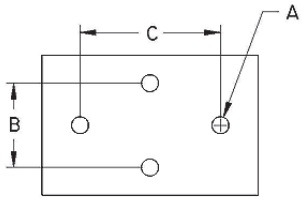

| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Fast. (in) | Wt (lb) |
|---|---|---|---|---|---|---|---|---|
| S37020000 | 3-1/4 | 0.76 | 2.37 | 1.23 | 0.26 | 2,000 | 1/4 | 0.30 |
| S37030000 | 4 | 1.00 | 3.00 | 1.56 | 0.28 | 3,000 | 5/16 | 0.49 |

- 316 Stainless Steel
- Heavy duty one piece precision casting without welds

* For maximum load distribution use HD backplate

## HEAVY DUTY DIAMOND BACKPLATE • 316 STAINLESS STEEL






| Part # | Size (in) | A (in) | B (in) | C (in) | D (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S37030001 | 4 | 5/16 | 3.00 | 1.56 | 0.06 | N/A | 0.17 |

- 316 Stainless Steel
- For maximum load distribution with the heavy duty diamond pad eye

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**



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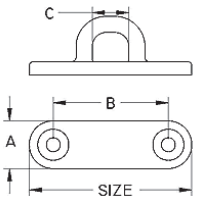
# PAD EYES

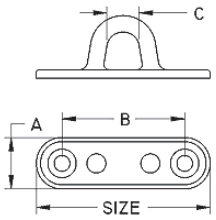
## HEAVY DUTY OBLONG PAD EYE • 316 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S3705X001 | 3 | 0.85 | 2.12 | 0.63 | 1,000 | 0.15 |
| S3705X002 | 3-1/2 | 1.24 | 2.65 | 0.76 | 1,500 | 0.29 |
| S3705X003 | 4 | 1.42 | 3.04 | 0.88 | 2,000 | 0.44 |

- 316 stainless steel
- Heavy duty one piece precision casting without welds

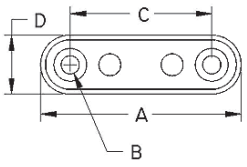
## OBLONG PAD EYE • 304 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S37050005 | 1-3/4 | 0.63 | 1.50 | 0.51 | 450 | 0.04 |
| S37050006 | 2-1/2 | 0.75 | 1.80 | 0.63 | 500 | 0.06 |
| S37050008 | 3-1/4 | 1.01 | 2.20 | 0.90 | 600 | 0.14 |
| S37050010 | 4 | 1.28 | 2.85 | 1.11 | 800 | 0.23 |

- 304 Stainless Steel
- Stamped & welded

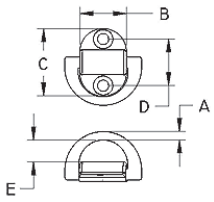
## OBLONG BACK PLATE • 304 STAINLESS STEEL




| Part # | Size (in) | A (in) | B (in) | Wt (lb) |
|---|---|---|---|---|
| S37060005 | 1-3/4 | 0.63 | 1.50 | 0.02 |
| S37060006 | 2-1/2 | 0.75 | 1.80 | 0.04 |
| S37060008 | 3-1/4 | 1.01 | 2.20 | 0.10 |
| S37060010 | 4 | 1.28 | 2.85 | 0.15 |

- 304 Stainless Steel
- Stamped & welded
- Back plate for the oblong pad eye for maximum load distribution

## HEAVY DUTY FOLDING PAD EYE • 316 STAINLESS STEEL




| Part # | A Size (in) | B (in) | C (in) | D (in) | E (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S37120001 | 1/4 | 1.06 | 1.53 | 1.06 | 0.50 | 1,200 | 0.13 |
| S37120002 | 5/16 | 1.38 | 1.94 | 1.25 | 0.69 | 2,000 | 0.25 |
| S37120003 | 3/8 | 1.75 | 2.53 | 1.63 | 0.84 | 4,000 | 0.60 |

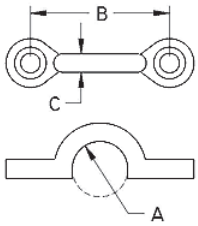
- D Ring is forged 316 Stainless Steel
- Holding pad body is precision cast 316 Stainless Steel

*Available in Titanium

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# PAD EYES

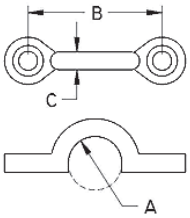
## PAD EYE • 304 STAINLESS STEEL




- 304 Stainless Steel
- Cast & stamped

| Part # | Size (in) | A Max Dia. (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S37190004 | 5/32 | 0.46 | 1.25 | 0.15 | 300 | 0.01 |
| S37190005 | 3/16 | 0.56 | 1.57 | 0.19 | 400 | 0.02 |
| S37190006 | 1/4 | 0.63 | 1.75 | 0.23 | 500 | 0.03 |
| S37190008 | 5/16 | 0.63 | 1.95 | 0.31 | 600 | 0.06 |

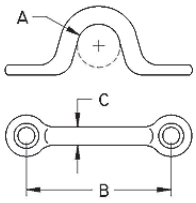
## HEAVY DUTY PAD EYE • 316 STAINLESS STEEL




- 316 Stainless Steel
- Precison Cast
- Round bar prevents chafe of rope

| Part # | Size (in) | A Max Dia. (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S37191005 | 5/8 | 0.40 | 1.40 | 0.19 | 350 | 0.03 |

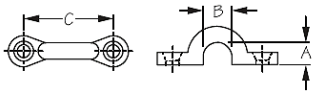
## STAMPED PAD EYE • 304 STAINLESS STEEL




- 304 Stainless Steel
- Stamped

| Part # | Size Max Dia. (in) | A (in) | B (in) | C (in) | WLL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|
| S37100010 | 3/8 | 0.42 | 1.10 | 0.18 | 220 | 0.01 |
| S37100015 | 1/2 | 0.52 | 1.40 | 0.25 | 230 | 0.02 |
| S37100020 | 3/4 | 0.78 | 1.70 | 0.29 | 350 | 0.03 |
| S37100028 | 15/16 | 0.93 | 2.50 | 0.25 | 250 | 0.03 |
| S37100032 | 1-1/8 | 1.12 | 2.62 | 0.29 | 400 | 0.05 |

## PAD EYE • CHROME




- Chrome finished
- Forged Bronze Wire

| Part # | A (in) | B (in) | C (in) | Fastener | Wt (in) |
|---|---|---|---|---|---|
| ES081275 | 5/16 | 3/8 | 1-3/8 | #10 FH | 0.04 |
| ES081276 | 3/8 | 1/2 | 1-9/16 | #10 FH | 0.05 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

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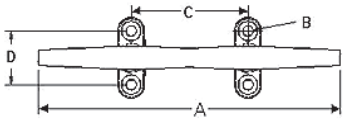
# CLEATS

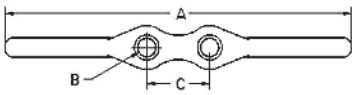
## BLUE WATER CLEAT • 316 STAINLESS STEEL




| Part # | A (in) | B (in) | C (in) | D (in) | Screw (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| S31380000 | 8 | 0.27 | 3.32 | 1.78 | 1/4 | 1.58 |
| S3140-0000 | 10 | 0.32 | 3.74 | 1.87 | 5/16 | 2.52 |
| S3142-0000 | 12 | 0.32 | 4.78 | 2.43 | 5/16 | 3.78 |
| S3145-0000 | 15 | 0.41 | 6.22 | 2.53 | 3/8 | 7.20 |

- 316 Stainless Steel
- Precision Cast

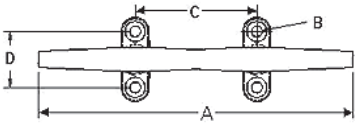
## FLAGPOLE CLEAT • 316 STAINLESS STEEL




| Part # | A (in) | B (in) | C (in) | Screw # | Wt (lb) |
|---|---|---|---|---|---|
| S3103-0000 | 2.50 | 0.17 | 0.50 | #8 | 0.03 |
| S3104-0000 | 4.50 | 0.22 | 0.81 | #10 | 0.09 |

- 316 Stainless Steel
- Drop Forged

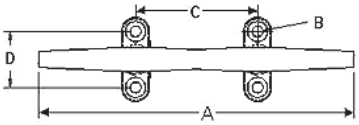
## HERRESHOFF CLEAT • 316 STAINLESS STEEL




| Part # | A (in) | B (in) | C (in) | D (in) | Screw (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| CLS6 | 6 | 0.27 | 2.29 | 1.05 | 1/4 | 0.42 |
| CLS8 | 8 | 0.27 | 2.82 | 1.34 | 1/4 | 0.75 |
| CLS10 | 10 | 0.32 | 3.63 | 1.75 | 5/16 | 1.30 |
| CLS12 | 12 | 0.32 | 3.93 | 1.94 | 5/16 | 2.28 |

- 316 Stainless Steel
- Precision Cast

## TRIMLINE CLEAT • 316 STAINLESS STEEL



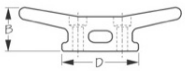

| Part # | A (in) | B (in) | C (in) | D (in) | Screw (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| CLSTL4 | 4 | 0.16 | 1.33 | 0.80 | 1/8 | 0.13 |
| CLSTL6 | 6 | 0.26 | 2.09 | 1.65 | 1/4 | 0.73 |
| CLSTL8 | 8 | 0.26 | 2.65 | 1.63 | 1/4 | 1.00 |

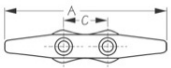
- 316 Stainless Steel
- Precision Cast

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# CLEATS

## OPEN BASE CLEAT • HOT DIPPED GALVANIZED




- Hot dipped galvanized iron
- Open base cleat with flat head

| Part # | A (in) | B (in) | C (in) | D (in) | Fastner | Wt (lb) |
|---|---|---|---|---|---|---|
| CLG4 | 4 | 1-1/8 | 7/8 | 1-7/8 | #10 FH | 0.23 |
| CLG5 | 5 | 1-5/16 | 1-1/16 | 2-3/16 | #12 FH | 0.29 |
| CLG6 | 6 | 1-3/8 | 1-1/4 | 2-3/16 | 1/4” Bolt | 0.38 |
| CLG8 | 8 | 2-1/8 | 1-11/16 | 3-1/4 | 5/16” Bolt | 1.42 |
| CLG10 | 10 | 2-1/2 | 2-3/8 | 4-1/16 | 3/8” Bolt | 2.14 |
| CLG12 | 12 | 2-7/8 | 3-3/8 | 5-1/2 | 3/8” Bolt | 3.22 |
| CLG14 | 14 | 3-1/2 | 4-1/4 | 6-1/8 | 1/2” Bolt | 5.18 |
| CLG18 | 18 | - | - | - | - | - |

## HEAVY DUTY DOCK CLEAT • #409 GALVANIZED

- Hot dipped galvanized iron
- A sturdy cleat, ideal for marina, dock & deck use
- Interchangeable with Wilcox 409 cleats
- All sizes are hex heads

| Part # | Length (in) | Base Size (in) | Bolt Dia. (in) | Wt (lb) |
|---|---|---|---|---|
| CLG4098 | 8 | 4 x 2-1/4 | 7/16 | 3.00 |
| CLG40910 | 10 | 4-5/8 x 2-1/2 | 1/2 | 5.75 |
| CLG40912 | 12 | 6-7/8 x 3 | 5/8 | 10.00 |
| CLG40915 | 15 | 7-1/4 x 3-1/2 | 3/4 | 14.00 |
| CLG40918 | 18 | 7-1/4 x 4 | 3/4 | 21.00 |
| CLG40924 | 24 | - | - | - |

## “S” CLEAT • ALUMINUM

- Aluminum
- Light weight yet strong & sturdy

| Part # | Size (in) |
|---|---|
| CLAS10 | 10 |
| CLAS12 | 12 |
| CLAS15 | 15 |

## BLACK NYLON CLEAT

- Heavy duty cleat
- Injection molded nylon

| Part # | Size (in) |
|---|---|
| SD043340 | 4-1/2 |
| SD043380 | 8 |
| SD0433901 | 10 |

## LINE CLEAT • NICKEL PLATED

20 Pieces per package

| Part # | Size (in) |
|---|---|
| CLNP4015212 | 2-1/2 |
| CLNP7023 | 3 |
| CLNP702334 | 3-3/4 |
| CLNP4015412 | 4-1/2 |



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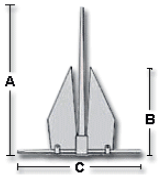
# ANCHORS

## FORTRESS ANCHOR • ALUMINUM MAGNESIUM ALLOY

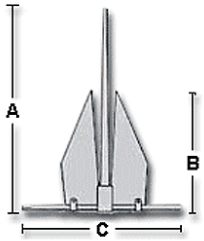




The Fortress Anchor is precision-machined from an aluminum alloy that is as strong as steel, but only half the weight making it extremely easy to handle. The Fortress Anchor is sharper than heavy, dull edged steel anchors and will set faster and penetrate deeper for incredible holding power. The adjustable 32° to 45° fluke angle is an exclusive, patented feature that dramatically increases holding power in problem soft and mud bottoms.

- Can be disassembled making it excellent as a spare or storm anchor & easy to store
- Lifetime parts replacement warranty and free replacement of any damaged anchor part
- Tough anodized finish, handsome and durable appearance, corrosion resistant and rustproof
- Optional storage bag available upon request

| Part # | Boat Length (ft) | Anchor Wt (lb) | Holding Power (lb) | A Shank Length (in) | B Fluke Length (in) | C Stock Length (in) | Chain Size (in) | Nyon Rope (in) | Shackle Size (in) |
|---|---|---|---|---|---|---|---|---|---|
| ANFX7 | 16-27 | 4 | 700 | 24 | 14 | 19 | 3/16 | 3/8 | 1/4 |
| ANFX11 | 28-32 | 7 | 900 | 27 | 16 | 22 | 1/4 | 3/8 | 1/4 |
| ANFX16 | 33-38 | 10 | 1,250 | 31 | 18 | 25 | 5/16 | 1/2 | 5/16 |
| ANFX23 | 39-45 | 15 | 2,000 | 36 | 21 | 29 | 3/8 | 5/8 | 3/8 |
| ANFX37 | 46-51 | 21 | 3,000 | 40 | 24 | 32 | 3/8 | 3/4 | 7/16 |
| ANFX55 | 52-58 | 32 | 4,000 | 46 | 27 | 37 | 1/2 | 7/8 | 1/2 |
| ANFX85 | 59-68 | 47 | 5,250 | 51 | 30 | 41 | 1/2 | 1 | 5/8 |
| ANFX125 | 69-150 | 69 | 6,750 | 56 | 33 | 45 | 1/2 | 1-1/4 | 5/8 |

## GUARDIAN ANCHOR • ALUMINUM MAGNESIUM ALLOY



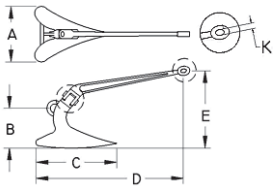

The Guardian Anchor is the value priced anchor from Fortress that is precision-machined from an aluminum alloy that is as strong as steel, but only half the weight. The Guardian Anchor has less machining steps than the Fortress, with 32° angle only and non-anodized finish.

- Rustproof & easy to manage weight
- Second only to Fortress in holding power tests
- An affordable alternative to heavy steel anchors
- Can be disassembled making it excellant as a spare or storm anchor & easy to store
- 1 Year parts replacement warranty
- Optional storage bag available on request

| Part # | Boat Length (ft) | Anchor Wt (lb) | Holding Power (lb) | A Shank Length (in) | B Fluke Length (in) | C Stock Length (in) | Chain Size (in) | Nylon Rope (in) | Shackle Size (in) |
|---|---|---|---|---|---|---|---|---|---|
| ANFG5 | 12-16 | 2.50 | 350 | 19 | 11 | 16 | 3/16 | 3/8 | 3/16 |
| ANFG7 | 17-22 | 4.00 | 575 | 22 | 13 | 18 | 3/16 | 3/8 | 3/16 |
| ANFG11 | 23-27 | 6.00 | 750 | 25 | 15 | 20 | 3/16 | 3/8 | 1/4 |
| ANFG16 | 28-33 | 7 .00 | 1,075 | 29 | 17 | 23 | 1/4 | 3/8 | 1/4 |
| ANFG23 | 34-41 | 13 .00 | 1,625 | 33 | 19 | 27 | 5/16 | 1/2 | 5/16 |
| ANFG37 | 42-47 | 18 .00 | 2,500 | 38 | 22 | 31 | 3/8 | 5/8 | 3/8 |
| ANFG55 | 48-53 | 29 .00 | 3,500 | 43 | 25 | 35 | 3/8 | 3/4 | 7/16 |
| ANFG85 | 54-62 | 42 .00 | 4,625 | 48 | 28 | 39 | 1/2 | 7/8 | 1/2 |
| ANFG125 | 63-72 | 65 .00 | 6,000 | 53 | 31 | 43 | 1/2 | 1 | 5/8 |

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## PLOWMASTER ANCHOR • 316 STAINLESS STEEL




| Part # | Anchor Wt (lb) | A (in) | B (in) | C (in) | D (in) | E (in) | K/Hole (in) |
|---|---|---|---|---|---|---|---|
| S70250000 | 25 | 12.00 | 7.80 | 16.50 | 30.50 | 13 | 0.70 |
| S70350000 | 35 | 12.80 | 8.50 | 17.50 | 34.50 | 14 | 0.80 |
| S70450000 | 45 | 14.30 | 10.00 | 20.00 | 39.00 | 17 | 0.80 |
| S70600000 | 60 | 15.80 | 11.00 | 21.00 | 41.50 | 18 | 0.90 |
| S70800000 | 80 | 17.50 | 12.00 | 25.00 | 45.00 | 19 | 1.00 |

The Plowmaster Anchor is precision cut and polished from Type 316 Stainless Steel, then welded & hand polished. The Plowmaster anchor is designed for excellent performance in muddy, sandy and hard bottom conditions.

- Breaking loads 50% to 100% higher than galvanized anchors of competitors
- Engraving available

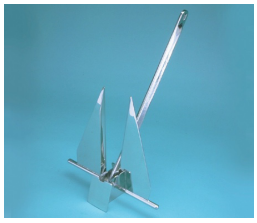
## PLOW ANCHOR • HOT DIP GALVANIZED

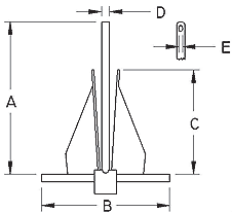
| P art # | Boat Length (ft) | Anchor Weight (lb) | WLL (lbs) | Chain Size (in) | Nylon Rope (in) | Line Length (ft) |
|---|---|---|---|---|---|---|
| ANP16 | 26-30 | 16 | 5,000 | 3/16 | 7/16 | 135 |
| ANP20 | 31-35 | 20 | 10,000 | 5/16 | 1/2 | 190 |
| ANP25 | 36-40 | 25 | 15,000 | 3/8 | 9/16 | 225 |
| ANP35 | 41-45 | 35 | 20,000 | 7/16 | 5/8 | 240 |
| ANP45 | 46-50 | 45 | 30,000 | 1/2 | 11/16 | 315 |
| ANP60 | 51-60 | 60 | 50,000 | 9/16 | 3/4 | 360 |

Plow anchors are favored by bluewater cruisers for their exceptional performance in a wide range of seabeds. They are cast of super-strong steel and have exceptional penetration in weeds, sand, mud and rock. The shank is hinged to prevent breakout on an anchor roller. The eye is used for attaching a trip line and makes breakout easier.

- Hot Dip Galvanized to prevent corrosion

## SEAMASTER ANCHOR • 316 STAINLESS STEEL






| Part # | Anchor Weight (lb) | A (in) | B (in) | C (in) | D (in) | E/Hole (In) |
|---|---|---|---|---|---|---|
| S7515-0000 | 15 | 22.50 | 17.50 | 13.00 | 0.40 | 0.52 |
| S7520-0000 | 20 | 23.80 | 15.80 | 12.00 | 0.40 | 0.52 |
| S7525-0000 | 25 | 26.80 | 21.50 | 16.00 | 0.50 | 0.56 |
| S7535-0000 | 35 | 28.80 | 23.50 | 17.30 | 0.80 | 0.62 |
| S7545-0000 | 45 | 30.00 | 25.50 | 19.00 | 0.80 | 0.62 |

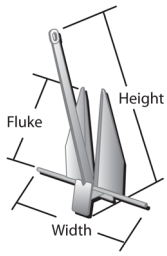
The Seamaster Anchor is precision cut and polished from Type 316 Stainless Steel, then welded & hand polished to a mirror finish.

- Custom size anchors & engraving are available

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# ANCHORS

## SUPER HOOKER ANCHOR • HOT DIPPED GALVANIZED

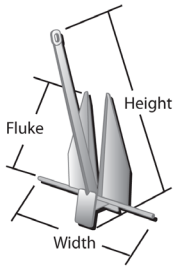



The Super Hooker anchor is a good choice for your anchoring needs. This lightweight, hot dipped galvanized Super Hooker anchor has strong wide flukes that penetrate quickly and firmly for maximum holding power.

- Fully welded crown configuration provides the right angles for ultimate holding power and secure penetration
- The Super Hooker stows flat and can be used with most fluke type anchor storage systems

| Part # | Boat Length (ft) | Anchor Weight (lb) | Holding Power (lb) | Anchor Height (in) | Stock Width (in) | Fluke Height (in) | Chain Size (in) | Nylon Rope (in) | Line Length (ft) |
|---|---|---|---|---|---|---|---|---|---|
| ANSF3G | to 12’ | 3 | 130 | 17.25 | 13.00 | 9.00 | 3/16 | 7/16 | 70 |
| ANSF4G | 12-16 | 4 | 240 | 19.50 | 14.75 | 10.50 | 3/16 | 7/16 | 80 |
| ANSF8G | 17-24 | 9 | 480 | 24.00 | 18.25 | 12.00 | 3/16 | 7/16 | 90 |
| ANSF13G | 25-30 | 14 | 740 | 28.25 | 21.50 | 14.25 | 1/4 | 7/16 | 135 |
| ANSF18G | 31-34 | 18 | 1,050 | 31.75 | 24.00 | 16.50 | 5/16 | 1/2 | 190 |
| ANSF22G | 35-38 | 25 | 1,300 | 35.00 | 26.75 | 19.00 | 5/16 | 1/2 | 210 |
| ANSF40G | 38-43 | 43 | 1,600 | 40.75 | 31.00 | 22.00 | 7/16 | 5/8 | 240 |
| ANSF65G | 44-53 | 75 | 2,400 | 50.00 | 38.00 | 26.50 | 1/2 | 11/16 | 315 |
| ANSF85G | 54-60 | 96 | 2,800 | 54.00 | 41.00 | 28.75 | 9/16 | 3/4 | 360 |

## DANFORTH STANDARD ANCHOR • HOT DIPPED GALVANIZED



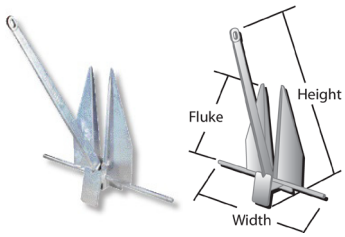

The Danforth Standard Anchor has the traditional holding power which has always been associated with Danforth Standard Anchors.

- The shank is made of high strength steel
- The steel flukes are strong and wide
- Each anchor has a hot dipped galvanized coating for long-lasting protection

| Part # | Boat Length (ft) | Anchor Weight (lb) | Holding Power (lb) | Anchor Height (in) | Anchor Width (in) | Fluke Height (in) | Chain Size (in) | Nylon Rope (in) | Length (ft) |
|---|---|---|---|---|---|---|---|---|---|
| AND35 | to 10’ | 3-1/2 | 160 | 17.25 | 13.00 | 9.00 | 3/16 | 7/16 | 70 |
| AND5 | 11-17 | 5 | 300 | 19.50 | 14.75 | 10.50 | 3/16 | 7/16 | 80 |
| AND9 | 18-27 | 9 | 600 | 24.00 | 18.25 | 12.00 | 3/16 | 7/16 | 90 |
| AND14 | 28-31 | 14 | 920 | 28.25 | 21.50 | 14.25 | 1/4 | 7/16 | 135 |
| AND16 | 32-36 | 16 | 1,300 | 31.75 | 24.00 | 16.50 | 5/16 | 1/2 | 190 |
| AND25 | 37-40 | 25 | 1,600 | 35.00 | 26.75 | 19.00 | 5/16 | 1/2 | 210 |
| AND43 | 31-45 | 43 | 2,000 | 40.25 | 31.00 | 22.00 | 3/8 | 5/8 | 240 |
| AND70 | 46-55 | 70 | 3,000 | 50.00 | 38.00 | 26.50 | 1/2 | 11/16 | 315 |
| AND100 | 56-60 | 100 | 3,500 | 54.00 | 41.00 | 28.75 | 5/8 | 3/4 | 360 |

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## DANFORTH HI-TENSILE ANCHOR • HOT DIPPED GALVANIZED




The Danforth Hi-Tensile is the toughest, most durable anchor and features very high holding power.

- The flukes are fabricated for additional strength and then beveled to allow quick deep bottom penetration
- Each shank is made from drop forged steel
- Hot Dipped Galvanized finish

| Part # | Boat Length (ft) | Anchor Weight (lb) | Holding Power (lb) | Anchor Height (in) | Anchor Width (in) | Fluke Height (in) | Chain Size (in) | Nylon Rope (in) |
|---|---|---|---|---|---|---|---|---|
| AND5HT | to 31' | 5 | 1,000 | 21.50 | 16.50 | 11.75 | 5/16 | 1/2 |
| AND12HT | 32-42 | 5 | 1,800 | 28.25 | 21.50 | 13.50 | 1/4 | 1/2 |
| AND20HT | 43-50 | 20 | 2,500 | 35.00 | 26.75 | 19.00 | 7/16 | 5/8 |
| AND35HT | 51-64 | 35 | 3,800 | 40.75 | 31.00 | 22.00 | 3/4 | |
| AND60HT | 65-73 | 60 | 5,500 | 50.00 | 38.00 | 27.00 | 5/8 | |
| AND90HT | 74-75 | 90 | 6,300 | 54.00 | 41.00 | 29.25 | 3/4 | |
| AND150HT | 76-80 | 150 | 7,000 | 57.25 | 43.50 | 30.50 | 3/4 | |
| AND190HT | 81-83 | 190 | 7,700 | 61.00 | 46.00 | 33.50 | 7/8 | |

## BRUCE STYLE ANCHOR • HOT DIPPED GALVANIZED

| Part # | Boat Length (ft) | Anchor Weight (lb) | Holding Power (lb) | Chain Size (in) | Nylon Rope (in) | Line Length (in) |
|---|---|---|---|---|---|---|
| ANB2 | to 20' | 2 | 1,000 | 3/16 | 7/16 | 80 |
| ANB4 | 20-25 | 4 | 2,500 | 3/16 | 7/16 | 90 |
| ANB11 | 26-30 | 11 | 5,000 | 1/4 | 7/16 | 135 |
| ANB16 | 31-35 | 16 | 10,000 | 5/16 | 1/2 | 190 |
| ANB22 | 36-45 | 22 | 20,000 | 3/8 | 9/16 | 225 |
| ANB33 | 46-50 | 33 | 30,000 | 7/16 | 5/8 | 240 |
| ANB44 | 51-60 | 44 | 50,000 | 1/2 | 11/16 | 315 |
| ANB66 | 81-83 | 66 | 65,000 | 9/16 | 3/4 | 360 |

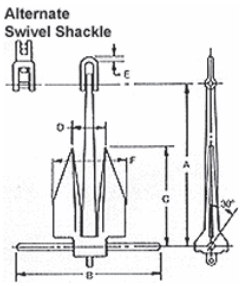
Lloyd's certified as a high holding power anchor, the Bruce style anchor is forged to enable consistent quality of steel and measurements.

- The Bruce Anchor is a quick set anchor and is ideal for use in sand and mud
- Hot dipped galvanized finish

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

# ANCHORS

## WORKBOAT ANCHOR • HOT DIPPED GALVANIZED




| Part # | Anchor Weight (lb) | Holding Power (lb) | A (in) | B (in) | C (in) | D (in) | E (in) | F (in) |
|---|---|---|---|---|---|---|---|---|
| ANWB150 | 150 | 8,300 | 49 | 42-1/2 | 29-7/8 | 5-5/8 | 3/4 | 18-7/8 |
| ANWB200 | 200 | 10,100 | 52-1/2 | 45-1/2 | 33 | 6-1/8 | 7/8 | 20-1/2 |
| ANWB300 | 300 | 13,000 | 56 | 48-1/2 | 35-1/4 | 13-1/2 | 1-1/8 | 23-1/4 |
| ANWB400 | 400 | 15,600 | 58 | 50 | 36-9/16 | 13-7/8 | 1-1/8 | 24-1/8 |
| ANWB500 | 500 | 18,100 | 63 | 54-1/2 | 39-3/4 | 15-1/8 | 1-1/2 | 26-1/4 |

Workboat Anchors have excellent holding power in sand & mud and are designed for larger vessels.

## FIXED GRAPNEL ANCHOR• HOT DIP GALVANIZED

| Part # | Boat Length (ft) | Anchor Weight (lb) | Chain Size (in) | Rope Size (in) | Line Length (ft) |
|---|---|---|---|---|---|
| ANG2 | up to 10' | 2 | 5/32 | 1/4 | 40 |
| ANG3 | up to 10' | 3 | 5/32 | 1/4 | 40 |
| ANG5 | 5-14 | 5 | 3/16 | 5/16 | 50 |
| ANG8 | 5-18 | 8 | 3/16 | 5/16 | 120 |
| ANG12 | 14-22 | 12 | 3/16 | 3/8 | 150 |
| ANG18 | 18-26 | 18 | 1/4 | 3/8 | 150 |
| ANG24 | 20-30 | 24 | 5/16 | 1/2 | 180 |

Grapnel anchors are ideal for smaller crafts such as dingies, canoes, kayaks and so forth and are designed for holding on rocks and reefs.

- The tines, or prongs, are designed to bend free to release from structures or snags and can be reshaped after recovery
- Hot dip galvanized to prevent corrosion

## FOLDING GRAPNEL ANCHOR • HOT DIP GALVANIZED

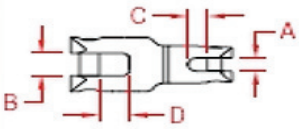
| Part # | Anchor Weight (lb) | Length (in) | Width Open (in) | Width Closed (in) | Shackle Size (in) |
|---|---|---|---|---|---|
| ANFL1.5 | 1.50 | 7.00 | 6.75 | 2.00 | 3/16 |
| ANFL3 | 3.00 | 12.00 | 10.00 | 2.50 | 1/4 |
| ANFL5 | 5.00 | 12.75 | 13.50 | 2.63 | 5/16 |
| ANFL7 | 7.00 | 16.00 | 16.50 | 3.00 | 5/16 |
| ANFL12 | 12.00 | 18.00 | 17.00 | 3.50 | 3/8 |

Grapnel anchors are ideal for smaller crafts such as dingies, canoes, kayaks and so forth and are designed for holding on rocks and reefs.

- Extremely compact when folded
- Immense holding power when hooked onto something
- Galvanized cast iron & includes one shackle

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## ANCHOR SWIVEL • 17-4 PH STAINLESS STEEL

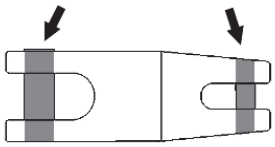



| Part # | Chain Size (in) | A (in) | B (in) | C (in) | D (in) | BL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S01900008 | 1/4 - 5/16 | 0.37 | 0.68 | 0.46 | 0.74 | 8,500 | 0.96 |
| S01900013 | 3/8 - 1/2 | 0.67 | 0.92 | 0.67 | 1.29 | 15,000 | 2.18 |
| S01900020 | 1/2 - 3/4 | 0.83 | 1.50 | 1.08 | 1.57 | 25,000 | 9.39 |

This Stainless Steel Anchor & Chain Swivel is one of the highest quality anchor swivels available. The anchor swivel is precisioin machined which helps to prevent the chain from getting twisted and the swivel spins 360°. The streamlined shape of the anchor swivel has no protrusions and prevents the swivel from snagging debris on the bottom. It can be used between anchor and chain and/or between chain and line. Miami Cordage offers our own 3 Strand Nylon Heat Set, which is ideal for anchor rode applications.

- 17-4 PH Stainless Steel & Precision Cast
- Equipped with ball bearings & thread locking liquid is included

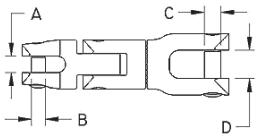
## ANCHOR SWIVEL REPLACEMENT PINS • 17-4 PH STAINLESS STEEL

| Part # | Size (in) |
|---|---|
| S0190RP08 | 5/16 |
| S0190RP13 | 1/2 |
| S0190RP20 | 3/4 |

- Replacement pins are solid screw pins
- Type 17-4 PH Stainless Steel

## UNIVERSAL ANCHOR SWIVEL • 316 STAINLESS STEEL

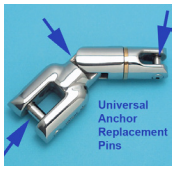


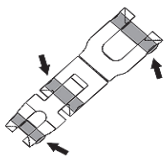

| Part # | Size Chain (in) | A (in) | B (in) | C (in) | D (in) | BL (lb) | Wt (lb) |
|---|---|---|---|---|---|---|---|
| S0190X008 | 1/4 - 5/16 | 0.37 | 0.29 | 0.37 | 0.68 | 8,500 | 1.40 |
| S0190X013 | 3/8 - 1/2 | 0.67 | 0.50 | 0.50 | 0.92 | 15,000 | 3.34 |
| S0190X020 | 1/2 - 3/4 | 0.83 | 0.61 | 0.98 | 1.50 | 25,000 | 13.82 |

The Stainless Steel Anchor Swivel is a heavy duty anchor rode swivel designed to be used between the anchor and lead chain, or between anchor chain and line. The Universal Anchor Swivel has a sleek design with solid screw pins and the swivel spins 360°. It is also equipped with solid bronze thrust washer and thread locking liquid is included for the cross pins.

- Type 17-4 PH Stainless Steel & Precision Cast

## ANCHOR SWIVEL REPLACEMENT PINS • 17-4 PH STAINLESS STEEL



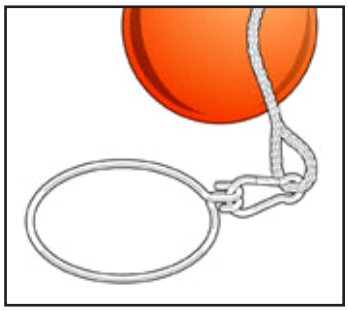



| Part # | Size (in) |
|---|---|
| S0190RP08 | 5/16 |
| S0190RP13 | 1/2 |
| S0190RP20 | 3/4 |

- Replacement pins are solid screw pins
- Type 17-4 PH Stainless Steel

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## ANCHOR RING ANCHOR RETRIEVING SYSTEM



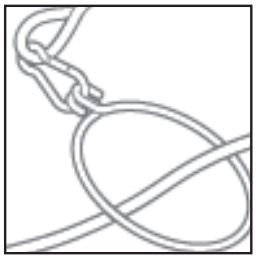
| Part # | Ring Size (in) | Polyform A Series Buoy | Floatation Capacity (lb) |
|---|---|---|---|
| ANFLK3014 | 1/4 | A0 | 17 |
| ANFLK4014 | 1/4 | A1 | 37 |
| ANFLK5014 | 1/4 | A2 | 74 |
| ANFLKRS14* | 1/4 | - | - |
| ANFLKS** | - | - | - |

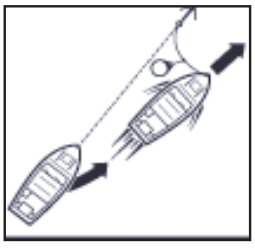
Our custom made anchor retrieving kit is preferred for open water anchoring on anchor lines rigged with more than 10 feet of chain and provides an easy way to retrieve your anchor from the bed of the ocean. The standard kit includes one 1/4" stainless steel anchor ring attached to a stainless steel harness clip. A 2' x 3/8" white nylon 3-strand rope is spliced between the clip and buoy. You can customize the size of the buoy depending on the weight of the anchor being pulled up, with a maximum anchor weight of 74 pounds.

Included in kit:
- Stainless steel harness clip & anchor ring
- 2 feet of 3/8" white nylon 3-strand twisted rope
- Polyform A series buoy
- Will lift up to 74 pound anchor systems

* Includes the 1/4" anchor ring, 2' x 3/8" nylon 3-strand with spliced eye & 1 harness clip
** Includes 2' x 3/8" nylon 3-strand with spliced eye & 1 harness clip

**How does the Anchor Ring work?**

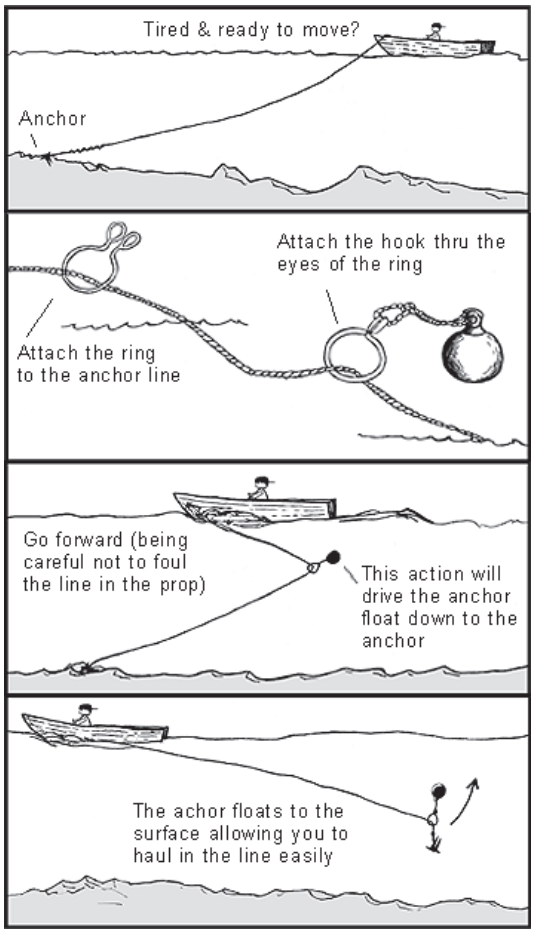




1. Slip the Anchor Ring over the anchor line. Attach the shackle-buoy assembly. Be sure to snap the shackle through both eyes of the ring. Toss the buoy into the water allowing the ring to slide down the line.

2. Motor your boat at a 30 degree angle off of your anchor point, taking care to keep the anchor line clear of the props. Proceed slowly (roughly 5 knots) until the anchor is released from the bottom. Then increase speed slightly (6 to 8 knots).

3. The anchor line will slide through the ring as the buoy floats to the surface. Once the anchor has reached the surface, shift into neutral and pull in the slack anchor line and anchor. The anchor chain will counterbalance the anchor and hold the anchor at the surface.



## POLYFORM A SERIES

| Part # | Diam. (in) | Length (in) | Eye Diam. (in) | Circ. (in) | Volume (gallons) |
|---|---|---|---|---|---|
| FPA0 | 8.00 | 11.50 | 0.60 | 28.30 | 1.60 |
| FPA1 | 11.00 | 15.00 | 1.00 | 36.10 | 3.50 |
| FPA2 | 14.50 | 19.50 | 1.13 | 58.10 | 14.50 |
| FPA3 | 17.00 | 23.00 | 1.30 | 58.10 | 14.50 |
| FPA4 | 20.50 | 27.00 | 1.14 | 67.50 | 22.50 |
| FPA5 | 27.00 | 36.00 | 1.25 | 86.40 | 47.60 |
| FPA6 | 34.00 | 44.00 | 1.50 | 106.80 | 95.10 |
| FPA7 | 39.00 | 54.00 | 2.00 | 130.00 | 161.60 |

- Even wall thickness for maximum strength & durability
- Unique vinyl valve system
- Dual valve inflation/deflation system for sizes A-5, A-6 & A-7
- Standard colors: red, white & black, additional colors available on special order

## POLYFORM CM SERIES MOORING BUOY

| Part # | Color | Diam. (in) | Length (in) | Tube Diam. (in) | Iron Lenght w/ Shackle (in) | Volume (gallons) |
|---|---|---|---|---|---|---|
| FPCM2R | Red | 13.50 | 18.00 | 0.63 | 31.00 | 6.60 |
| FPCM2W | White | 13.50 | 18.00 | 0.63 | 31.00 | 6.60 |
| FPCM3R | Red | 17.00 | 22.00 | 0.63 | 35.00 | 14.50 |
| FPCM3W | White | 17.00 | 22.00 | 0.63 | 35.00 | 14.50 |

- Mooring buoy with standard galvanized central rod, stainless steel rod available on special order
- Large reinforced 4-3/8” eye and 1-1/2” swivel
- Soft vinyl surface protects boat finishes

## POLYFORM HTM SERIES FENDER

| Part # | Diam. (in) | Length (in) | Tube Diam. (in) | Circ. (in) | Buoyancy Ratings (lbs) |
|---|---|---|---|---|---|
| FPHTM1 | 6.30 | 15.50 | 5/8 | 18.80 | 15.00 |
| FPHTM2 | 8.50 | 20.50 | 5/8 | 25.10 | 37.00 |
| FPHTM3 | 10.50 | 27.00 | 5/8 | 31.40 | 77.00 |
| FPHTM4 | 13.50 | 34.80 | 5/8 | 37.70 | 145.00 |

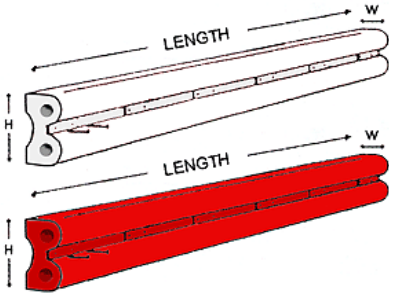
- HTM (hole-through-middle) fenders are desined for maximum protection with extra wall thickness
- Molded-in ribs for strength & abrasion resistance
- Medium-duty use in both permanent protected & unprotected moorings

## POLYFORM F SERIES FENDER

| Part # | Diam. (in) | Length (in) | Eye Diam. (in) | Circ. (in) | Volume (gallons) |
|---|---|---|---|---|---|
| FPF1 | 6.00 | 24.00 | 0.70 | 18.80 | 2.20 |
| FPF02 | 7.50 | 26.00 | 0.70 | 25.10 | 3.00 |
| FPF2 | 8.20 | 25.00 | 0.90 | 28.30 | 3.50 |
| FPF3 | 8.20 | 30.00 | 0.90 | 28.30 | 5.30 |
| FPF4 | 8.50 | 40.50 | 0.90 | 28.30 | 9.30 |
| FPF5 | 11.00 | 30.00 | 1.00 | 37.70 | 11.90 |
| FPF6 | 11.00 | 42.00 | 1.00 | 37.70 | 19.80 |
| FPF7 | 15.00 | 41.00 | 1.00 | 47.10 | 39.60 |
| FPF8 | 15.00 | 58.00 | 1.00 | 47.10 | 39.60 |
| FPF10 | 18.00 | 50.00 | 1.00 | 58.10 | 40.80 |
| FPF11 | 21.20 | 57.50 | 1.10 | 75.40 | 63.70 |
| FPF13 | 29.00 | 76.50 | 1.20 | 100.50 | 158.60 |

- Wide range of sizes to suit any vessel
- Unique vinyl valve seals securely
- Multiple ribbed ropeholds
- Twin-eye design for vertical or horizontal use
- Designed for use in permanent unprotected moorings, pilings, locks & concrete walls

## THE DEFLECTOR




| Part # | Length (in) | Height (in) | Width (in) | Color |
|---|---|---|---|---|
| FDB18 | 37 | 3-3/8 | 1-1/4 | White |
| FDB16 | 37 | 3-3/8 | 1-1/4 | Red |

- Dock guard made of EVA foam
- Available in white & red
- Includes 6 fastening brackets

## GEMTOR FULL BODY HARNES • VP SERIES

| Part # | Features |
|---|---|
| BELTGEMVP1012 | Quick connect leg straps |
| BELTGEMVP1022 | Quick connects & hip D-rings |
| BELTGEMVP1022XXL | XXL full body harness |

- All day comfort & ease of mobility
- Lightweight, sub-pelvic
- Quick connect leg and chest straps
- Shoulder strap adjusters
- Anti-tangle strap
- Chest strap retainers with snaphook holdr
- Hip D-rings included

## GEMTOR TOWER CLIMBING HARNESS • 2000 SERIES

| Part # | Features |
|---|---|
| BELTGEM20052 | Front D-ring & quick connect leg straps |

- For tower erection & maintenance
- Available with full-size front D-ring or quick connect chest strap
- Heavy-duty tongue buckle body belt with hip positioning D-rings and foam back pad
- Seat sling with suspension D-rings
- Quick connect at hip for easy donning (front D-rings models)
- Spring-loaded adjuster on shoulder strap(s)
- Accessory ring holds lanyard snaphook when not in use
- Accessory hooks on waist belt

## GEMTOR ROOFER'S FALL PROTECTION KITS

| Part # | Item | Wt (lb) |
|---|---|---|
| GEMROOF1 | RAMUK1 | 14.25 |

Kit includes:
- One Multiple-use roof anchor
- One Full-body harness
- One Energy absorbing rope grab with 3' web lanyard
- One 5/8" diameter x 50' long poly- blend lifeline
- One Equipment carrying bag

## GEMTOR BOATSWAINS' (BOSUNS') CHAIR

| Part # | Wt (lb) |
|---|---|
| TOCHAIR1164 | 6.50 |

- Supports & positions a worker from above, thus permitting free use of hands
- Straps are made of 3" wide polyester webbing with a 1 ¾" wide body belt
- Seat is made of 12" x 24" laminated wood with wooden cleats on the bottom

## GEMTOR SOFT-PACK ENERGY ABSORBING LANYARDS

| Part # | Length (ft) |
|---|---|
| BELTGEMVP1564 | 4 |
| BELTGEMVP1566 | 6 |

Gemtor offers a variety of compact, lightweight, durable Soft-Pack energy absorbers that reduce the possibility of serious injuries by limiting the arresting force to less than 900 lbs. Locking snaphooks reduce the possibilty of accidental disengagements.

- 1" wide polyester web lanyard with a locking snaphook on each end
- Energy absorbers can increase fall distance by up to 42", make sure the available fall space permits the use of an energy absorber

## GEMTOR ROPE GRAB • MODEL VF505

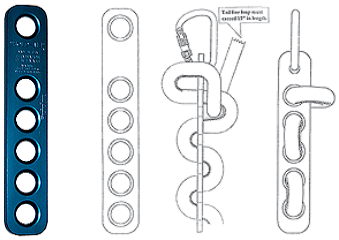

| Part # | Item | Wt (lb) |
|---|---|---|
| BELTGEMVF505 | VF505 | 1.50 |

Automatic rope grab follows a worker up and down a 5/8"- 3/4" diameter vertical synthetic lifeline. The unit's controlled, shock-absorbing action eliminates the need for an energy absorbing lanyard. The patented design allows the rope grab to be attached, detached and positioned at any point on the vertical lifeline.

- Made of stainless steel
- New York State Approval # 9502 (approval limited to rope grab only)
- Includes a snaphook compatible connection ring

**⚠ WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6.**

## HOLD-ME LIFELINE ANCHOR DEVICE



| Part # | Size (in) | Hole Dia. (in) | Color |
|---|---|---|---|
| HOLDME | 10-1/8 x 2-7/8 | 7/8 | Blue |

- ANSI Z-359.1 compliant, no knots in lifelines
- The practical solution for complying with currently recognized national safety standards & reducing liability exposure
- Knots shall not be used for load bearing end terminations (ANSI Z-359.1section 3.2.7.2.2)

## ELECTRIC ROPE CUTTER • HAND GUN

| Part # | Item |
|---|---|
| TOCHG6801 | Hand Gun |
| TOCHGB6805 | Replacement Blade |

- 150 Watts electric rope cutting hand gun
- Cuts and seals the ends of synthetic ropes in one fast movement

## ELECTRIC ROPE CUTTER • BENCH MOUNT

| Part # | Item |
|---|---|
| TOCB | Bench Model Cutter |
| TOCHGB112 | Replacement Blade 1-1/2” |
| TOCBB234 | Replacement Blade 2-5/16” |

- 110 volt A.C., 165 watts, fast heating (up to 1,200° F in only 8 seconds), lighted switch
- Allows for fast cutting & sealing of braided sleevings all at the same time
- For commercial use

## OLYMPIC MODEL 1430 ROPE MEASURER

- No- toothed wheel made of sintered iron keeps sure contact with cordage
- No-sag guide trough controls cordage travel in & out
- Measures all cordage from 5/32” to 3/4” diameter, not recommended for wire rope
- Digital counter indicates feet/inches up to 99’, 11” and continues, will also subtract
- One knob quickly set counter to zero
- Meets National Bureau of Standards H-44 Requirements

| Part # |
|---|
| COUNTER |



2475 NW 38 Street Miami, FL 33142
toll free: 800.226.7673 | tel: 305.636.3000 | fax: 305.635.0530
www.imakerope.com | email: sales@imakerope.com

## FELCO CP • CABLE CUTTER

| Part # | Length (in) | Wt (oz) |
|---|---|---|
| TOCCP | 8.07 | 9.88 |

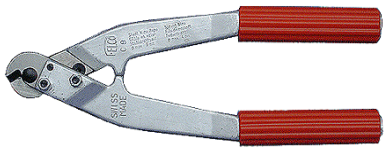
- Easily cuts steel strapping & banding wire
- Also cuts string, twine, rope, tin, copper, trellis work, netting, rubber
- Comfortable red plastic coated handle
- A thumb catch locks the cutter when not in use

## FELCO C-7 • CABLE CUTTER

| Part # | Length (in) | Wt (oz) |
|---|---|---|
| TOCF7 | 8.00 | 10.00 |

- Powerful tool for cutting up to 3/16” steel wire rope or spring wire up to 3/32”
- Handles, bolt & spring easily replacable

## FELCO C-9 • CABLE CUTTER



| Part # | Length (in) | Wt (lb) |
|---|---|---|
| TOCF9 | 13.00 | 1.50 |

- The smallest two-handed Felco cutter
- Powerful, light & easy to use
- Cuts up to 1/4” wire rope as well as hardended steel wire up to 5/32”

## FELCO C-12 & C-16 • CABLE CUTTER

| Part # | Cable Cutting Capacity (in) | Length (in) | Wt (lb) |
|---|---|---|---|
| TOCF12 | 3/8 | 19.00 | 3.00 |
| TOCF16 | 5/8 | 23.00 | 5.00 |
| TOCF16E * | 3/4 | 23.00 | 5.00 |

- Strong, lightweight aluminum handles & special alloy steel blades give these robust, heavy duty cutters outstanding performance
- Cutting capacity is optimized by the shape of the new handles
- Professional tool, made to last in a manufacturing environment, when cutting wire rope, steel rod or spring wire

* For use with electric cable of copper, aluminum & steel-cored aluminum up to 3/4”

## HAND SWAGER (NO. 1-SC)

## HYDRAULIC CABLE CUTTER

| Part # | Cable Cutting Capacity (in) | Output (tons) | Length (in) | Wt (lb) |
|---|---|---|---|---|
| TOCHHC16 | 5/8 | 4.40 | 15.00 | 6.20 |
| TOCHHC20 | 3/4 | 4.40 | 15.13 | 6.40 |

- Head swivels for difficult cutting positions
- Not for stainless steel

## LOCOLOC® NO. 000-WCI • HAND SWAGER

| Part # | Length (in) | Wt (oz) |
|---|---|---|
| TOSL000WC1 | 9.00 | 12.00 |

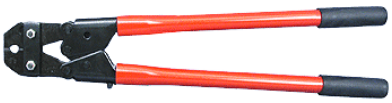
- Small, compact, can be carried in your pocket
- Swages 1/32”, 3/64”, and 1/16” oval and stop sleeves
- Has built in cable cutter

## LOCOLOC® NO. 0-1.5-3FS • HAND SWAGER

| Part # | Length (in) | Wt (lb) |
|---|---|---|
| TOSL01.53FS | 14.00 | 3.60 |

- Swages 3/64”, 1-16”, and 3/32” oval and stop sleeves, plus 1/8” stop sleeves
- Full width jaws allows for full swages with only one compression

## LOCOLOC® NO. 0-SC • HAND SWAGER



- Single compression die for oval & stop sleeve swaging
- All No. 0-SC tools are 20” long & weigh 4.2 lbs

| Part # | Swage Sizes (in) |
|---|---|
| TOSL0332 | 3/32 oval & 3/32, 1/8 stop sleeves, plus 1/8 stainless steel oval sleeves |
| TOSL018 | 1/8 oval & 5/32, 3/16, 7/32 stop sleeves |
| TOSL0532 | 5/32 oval sleeves |
| TOSL0316 | 3/16 oval sleeves |

## LOCOLOC® NO. 0 • HAND SWAGER

- Single compression die for oval & stop sleeve swaging
- All No. 0 tools are 28” long & weight 5 lbs

| Part # | Swage Sizes (in) |
|---|---|
| TOSL0732 | 7/32 oval sleeves |
| TOSL014 | 1/4 oval and 1/4, 9/32, 5/16 stop sleeves |
| TOSL0516 | 5/16 oval sleeves |

## LOCOLOC® NO. 1-SC • HAND SWAGER

| Part # | Length (in) | Wt (lb) |
|---|---|---|
| TOSL1SC | 26.00 | 6.50 |

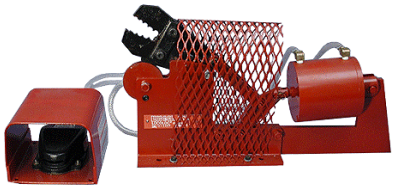
- Multi-compression hand swager with cable cutter
- Swages 1/16”, 3/32”, 1/8”, 5/32”, and 3/16” oval and stop sleeves, plus 7/32” stop sleeves, for a total of 11 sizes plus the ability to cut up to 7/32” diameter aircraft quality steel cable

## LOCOLOC® NO. 1-BSC • BENCH SWAGER

| Part # | Length (in) | Wt (lb) |
|---|---|---|
| TOSL1BSC | 22.5 long, 6.25 high | 6.60 |

- Mulit-compression jaws swage 1/16”, 3/32”, 1/8”, 5/32”, & 3/16” oval and stop sleeves plus 7/32” stop sleeves

## LOCOLOC® N0. 1 PNEUMATIC SWAGER



| Part # | Length (in) | Wt (lb) |
|---|---|---|
| TOSL1P | 20" long, 11" high | 27.50 |

- Eliminates hand labor & automates swaging of Locoloc® oval and stop sleeves
- Swages 1/16", 3/32", 1/8", 5/32", and 3/16" oval and stop sleeves plus 7/32" stop sleeves (11 sizes in all)
- Foot switch operation allows free movement of hands and quick disconnect to your air supply
- Operates on standard air supply (140 psi, minimum)

## IMPACT WIRE ROPE CUTTERS

| Part # | Wire Rope Cutting Capacity (in) | Wt (lb) |
|---|---|---|
| TOCIM1 | 3/4" continuous or 1" intermittent | 7.00 |
| TOCIM1A | 1" | 15.00 |
| TOCIM2 | 1-1/2" | - |

- Shock resistant malleable iron casting is newly designed to cut dead weight without impairing strength
- Blades are retained within the housing at moment of impact for safe operation
- Blades are "U" shaped to help rope keep its original shape
- Replacement blades available

## FLUID FLIM


| Part # | Size |
|---|---|
| LUBFFSC3.5 | 3.75 oz Spray Can |
| LUBFFSC | 11.75 oz Spray Can |
| LUBFFGAL | 1 Gallon |
| LUBFFSCC | Case of 12 11-3/4 oz Spray Can |
| LUBFF20 | 5 Gallons |

- The most versatile corrosion preventive and lubricant product
- Non-toxic, long lasting, thixotropic liquids that have been used for over 50 years in the highly corrosive marine environment of ships and offshore drilling rigs

## GROMMET KIT


| Part # | Trade Size | Size (in) | Metal |
|---|---|---|---|
| GK0 | #0 | 1/4 | Brass |
| GK1 | #1 | 5/16 | Brass |
| GK2 | #2 | 3/8 | Brass |
| GK3 | #3 | 7/16 | Brass |
| GK4 | #4 | 1/2 | Brass |

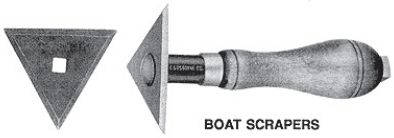
Everything you need to punch the holes and attach the grommets to tents, awnings, tarps, sails, shower curtains & lots more!

## WIRE ROPE MARLIN SPIKE


- The finest marlin spike available, made in the U.S.A.
- Fully polished high grade carbon steel
- Hardened & tempered

| Part # | Length (in) | Wt (lb) |
|---|---|---|
| TOO2768 | 8.00 | 0.44 |
| TOO27610 | 10.00 | 0.56 |
| TOO27612 | 12.00 | 1.00 |
| TOO27614 | 14.00 | 1.06 |
| TOO27616 | 16.00 | 2.00 |
| TOO27618 | 18.00 | 2.31 |
| TOO27620 | 20.00 | 2.31 |

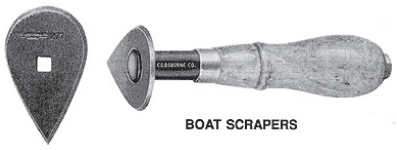
## BOAT SCRAPER · NO. 270


BOAT SCRAPERS

| Part # | Description | Length (in) | Width of Blade (in) | Wt (oz) |
|---|---|---|---|---|
| TOO270 | Boat Scraper | 5 | 2 | 3.00 |
| TOO270B | Replacement Blade | - | 2 | - |

- Triangular blade, hardened & tempered
- Hardwood handle
- Replacement blades are available, which prolong the life of the tool

## BOAT SCRAPER · NO. 271


BOAT SCRAPERS

| Part # | Description | Length (in) | Wt (oz) |
|---|---|---|---|
| TOO271 | Boat Scraper | 5 | 3.00 |
| TOO271B | Replacement Blade | - | - |

- Oval blade, hardened & tempered
- Hardwood handle
- Replacement blades are available, which prolong the life of the tool

## YACHT SCRAPER · NO. 272


YACHT SCRAPERS

| Part # | Description | Length (in) | Width of Blade (in) | Wt (oz) |
|---|---|---|---|---|
| TOO272 | Yacht Scraper | 9-1/2 | 2-3/4 | 7.00 |
| TOO272B | Replacement Blade | - | 2-3/4 | - |

- Triangular blade, hardened & tempered
- Hardwood handle
- Replacement blades are available, which prolong the life of the tool

## CAULKING IRON · NO. 273


CAULKING IRON

| Part # | Size | Length (in) | Width (in) | Thickness (in) | Wt (oz) |
|---|---|---|---|---|---|
| TOO27300 | #00 | 5 | 2 | 1/32 | 4.00 |
| TOO2730 | #0 | 5-5/8 | 2-1/2 | 1/16 | 4.50 |
| TOO2731 | #1 | 5-7/8 | 2-1/4 | 1/8 | 5.75 |

- Cast malleable iron with polished blade



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## SHIP SCRAPER · NO. 380

SHIP SCRAPER

| Part # | Length of Blade (in) | Width of Edges (in) | Wt (oz) |
|---|---|---|---|
| TOO380 | 13.25 | 1-3/4 | 19.00 |

- Hand forged high carbon steel
- Has two well sharpened bevel edges that can be used for wood or metal

## SHIP SCRAPER · NO. 388


SHIP SCRAPER

| Part # | Length of Blade (in) | Width of Edges (in) | Wt (oz) |
|---|---|---|---|
| TOO388 | 15.00 | 1-3/4 | 18.00 |

- Conforms with government specifications

## SCALING HAMMER · NO. 751

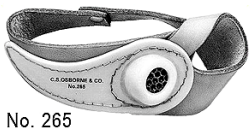
SCALING HAMMER

| Part # | Length of Head (in) | Width of Bit (in) | Wt (lb) |
|---|---|---|---|
| TOO751 | 5.00 | 1-3/16 | 1.00 |

- Forged steel, hardwood lacquered handle
- Double edged for chipping scale or paint

## SEWING PALM'S

No. 266



No. 265

| Part # | Description | Wt (oz) |
|---|---|---|
| TOO266R | Right hand | 2.50 |
| TOO266L | Left hand | 2.50 |
| TOO265R | Right hand | 2.50 |
| TOO265L | Left hand | 2.50 |

- A fine quality leather palm
- Vinyl and iron thimble
- Riveted joints

## SAMSON'S SPLICING KIT

| Part # | Item |
|---|---|
| SAMSON | Samson Splicing Kit |

- Kit contains a pusher and five aluminum tubular fids for splicing lines of 1/4" (5mm), 5/16" (8mm), 3/8" (9mm), 7/16" (10mm) & 1/2" (12mm)
- Instructions for the Samson Standard Eye Splice in a convenient vinyl pouch
- A great way to get your tools all at once

## STAINLESS STEEL SPLICING FIDS

- Stainless steel hollow splicing fid with hardwood handle

| Part # | Size (in) |
|---|---|
| TOFIDSS | 6.75 |
| TOFIDSL | 11.00 |

## HARDWOOD SPLICING FIDS

- High quality solid hardwood

| Part # | Size (in) |
|---|---|
| TOFID6 | 6 x 1-3/8 |
| TOFID8 | 8 x 1-1/2 |
| TOFID10 | 10 x 1-1/2 |
| TOFID12 | 12 x 1-3/4 |
| TOFID14 | 14 x 1-3/4 |
| TOFID16 | 16 x 2 |
| TOFID182 | 18 x 2 |
| TOFID183 | 18 X 3 |
| TOFID243 | 24 x 3 |

## ALUMINUM SPLICING FIDS

- Excellent, high quility aluminum splicing fids

| Part # | Size (in) |
|---|---|
| TOFIDA14 | 1/4 |
| TOFIDA516 | 5/16 |
| TOFIDA38 | 3/8 |
| TOFIDA716 | 7/16 |
| TOFIDA12 | 1/2 |
| TOFIDA916 | 9/16 |
| TOFIDA58 | 5/8 |
| TOFIDA34 | 3/4 |
| TOFIDA78 | 7/8 |
| TOFIDA1 | 1 |



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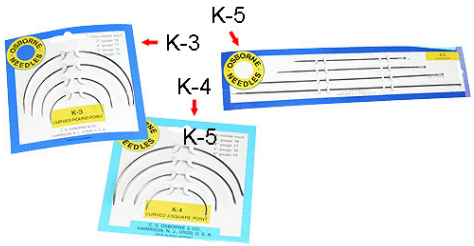
# NEEDLES & SEWING TOOLS

## CURVED NEEDLE KIT · NO. K-3, K-4 & K-5

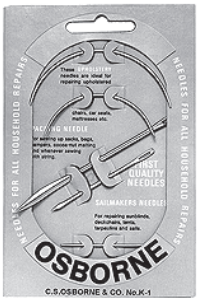



| Part # | Item | Wt (oz) |
|---|---|---|
| TOOK3 | K-3 | 6.00 |
| TOOK4 | K-4 | 6.00 |
| TOOK5 | K-5 | 18.00 |

Superior quality needles backed by Osborne, the leading manufacturer of sewing tools since 1826. All needles made of steel, & have super sharp heads for precision sewing, as well as large eyes for easy threading. Can be purchased 12 cards per box, & box can be broken.

- K3 - Curved Round Point - Set of Four (3”, 4”, 5”, & 6”)
- K4 - Curved 3-Pt. Diamond Point - Set of Four (3”, 4”, 5”, & 6”)
- K5 - Long Straight Point Set of Four (6”, 8”, 10”, & 12”)

## NEEDLE KIT · NO. K1




This attractive blue and yellow case contains an assortment of professional type needles. Useful in every home, but “hard-to-find” in your regular sources of supply. Packed 12 cards per box and box cannot be broken.

| Part # | Wt (oz) |
|---|---|
| TOOK1 | 8.00 |

Each kit contains:

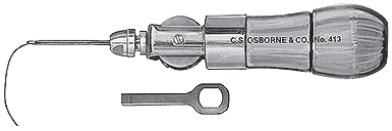
- 2 Curved upholstery needles
- 1 Special bent needle for sewing up fowls or whenever sewing with a string is needed
- 1 Awning, canvas or sail needle
- 1 Carpet or very heavy material needle

## SAILMAKER’S NEEDLE

- Sold individually or in packs of 25

| Part # | Size (Guage) | Length (in) |
|---|---|---|
| TOO5098 | 8 | 4-1/4 |
| TOO5099 | 9 | 4 |
| TOO50910 | 10 | 3-3/4 |
| TOO50911 | 11 | 3-1/2 |
| TOO50912 | 12 | 3-1/4 |
| TOO50913 | 13 | 3 |
| TOO50914 | 14 | 2-3/4 |
| TOO50915 | 15 | 2-1/2 |
| TOO50916 | 16 | 2-3/8 |
| TOO50917 | 17 | 2-1/4 |

## AUTOMATIC AWL - NO. 413




| Part # | Item Description |
|---|---|
| TOO413 | Automatic Awl Tool |
| TOO413N | Needle |
| TOO413T | Thread bobbin |

- Ideal for sewing leather, canvas and similar materials
- The awl carries a reel of black thread and an extra curved needle and wrench in the handle
- Directions furnished with each awl explaining how automatic lock stitch can be effective in repair work.
- Comes with one strait needle & one curved diamond pointed needle.

## WORK GLOVE
### HEAVY DUTY SUEDE • KNIT WRISTS

| Part # | Size |
|---|---|
| GLP3005 | L |

- Premium heavy duty suede work gloves
- Palm & fingers are made of premium suede leather

## WORK GLOVE
### "NON-SLIP GIPPERS" • HONEYCOMB

| Part # |
|---|
| GLP4000 |

- One size fits all
- Bright yellow-orange cloth gloves
- Weave of clear rubber covering entire glove has excellent gripping properties for carrying hard-to-grip objects

## WORK GLOVE
### PREMIUM RUBBER GLOVE

| Part # | Length (in) |
|---|---|
| GLP4205 | 14 |
| GLP4207 | 24 |

- One size fits all
- Extra tough rubber
- Perfect for car washing & limited chemical work

## WORK GLOVE
### HEAVY DUTY SUEDE • FULL COVERAGE

| Part # |
|---|
| GLP4004 |

- One size fits all
- Premium heavy duty suede leather that covers palm & fingers
- Heavy cloth covers upper wrist & forearm

## WORK GLOVE
### "NON-SLIP GIPPERS" • DOTS

| Part # |
|---|
| GLP4011 |

- One size fits all
- Premium coated work gloves
- Perfect for carrying hard-to-grip boxes & objects
- Cream colored cloth gloves with small rubber dots covering entire palm & fingers

## WORK GLOVE
### DU BARRY LATEX

| Part # | Size |
|---|---|
| GLDS | S |
| GLDM | M |
| GLDL | L |
| GLDXL | XL |

- A top quality house hold glove
- Rugged yet very comfortable & flexible

## WORK GLOVE
### HEAVYWEIGHT CLOTH

| Part # |
|---|
| GLP809 |

- 100 % cotton canvas gloves with knitted wrist



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# TOOLS & ACCESSORIES

## MAT • ESTATE SCRAPER


| Part # | Size (in) |
|---|---|
| MAEBS14 | 15 x 13 |

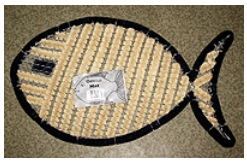
- The world's best shoe & boot scraper
- Superior performance & durability
- Cleans the bottom & sides of shoes & boots
- Coir fiber with galvanized rust resistant wire
- Ideal for entry ways, gardens & patios

## MATS • "WELCOME" & "GO AWAY"


- Long lasting natural colored woven cocoa fibers

| Part # | Size (in) | Text |
|---|---|---|
| MACW1830 | 18 x 30 | "Welcome" |
| MACG1830 | 18 x 30 | "Go Away" |

## MAT • FISH



| Part # | Size (in) |
|---|---|
| MAFW1830B | 18 x 30 |

- Made from natural coconut fiber
- Reinforced with a rust resistant wire frame
- Very sturdy & easy to clean
- Our most popular mat!

## MAT
### HALF ROUND BASKETWEAVE SCRAPER

| Part # | Size (in) |
|---|---|
| MARBW1830 | 18 x 30 |

- Superior performance & durability
- Cocoa fibers & galvanized wire resists corrosion
- Ideal for entryways, patios & gardens

## MAT • WOVEN MANILA

| Part # | Size (in) |
|---|---|
| MACA1830 | 18 x 30 |

- Beautifully made with natural fiber manila rope

## MAT • LOVER'S KNOT ROPE

| Part # | Size (in) |
|---|---|
| MACLO1830 | 18 x 30 |

- Beautifully made with 100% natural fiber
- Earth safe and biodegradable

## MAT
### NANTUCKET POLYETHYLENE WOVEN ROPE

- Super durable
- Floats
- Washable
- Resistant to saltwater
- Use on non-skid surfaces
- Quick drying
- Colorfast
- 100% Polyethylene
- Handwoven in India

| Part # | Size (in) | Color |
|---|---|---|
| MACP18301 | 18 x 30 | Green |
| MACP22361 | 22 x 36 | Green |
| MACP18302 | 18 x 30 | Grey |
| MACP22362 | 22 x 36 | Grey |
| MACP18304 | 18 x 30 | Blue |
| MACP22364 | 22 x 36 | Blue |
| MACP18308 | 18 x 30 | Beige |
| MACP22368 | 22 x 36 | Beige |

# CUSTOM TOW BRIDLES

**Miami Cordage custom fabricates all of our tow bridles in-house to meet your exact specs. Designing a tow bridle has a lot of factors that go into the planning. The size of the vessel that is being towed as well as the towing vessel are taken into consideration, as well as whether the tow bridle will be used out on the open seas or on flat water and the speed that the vessels are traveling at. We have several different options for the stern and tow legs as well as at their connection points. The bottom line is that here at Miami Cordage, we want to help you design a tow bridle that will meet your exact needs, get the job done and last for a long time to come. Below is some basic information to help get you started with designing your tow bridle, give us a ring when your ready and we'll help you design the rest.**

---

**A. Stern Connection:** We offer the stern connection points in either bitter ends or hand spliced eyes with or without chafe gear depending on your needs.

**B. Stern Legs**: These lines are made with our nylon double braid rope for it's stretching properties, custom colors are available. We will assist in selecting the proper length and diameter of the rope to match the WLL of the line.

**C. Y-Point Connection:** The three legs of your tow bridle are brought together by hand spliced eyes, again chafe gear is optional. 18" or 24" eyes are most common at the Y-Point. If you prefer to be able to disassemble your tow bridle at the Y-Point, optional stainless steel hardware is available.

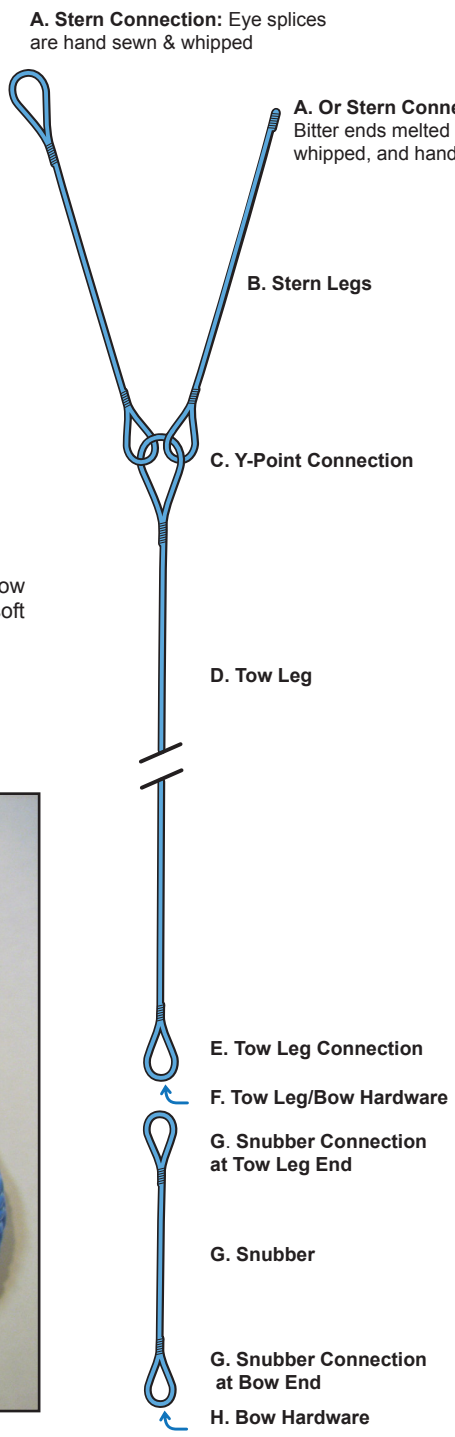
**D. Tow Leg:** The tow leg is typically made with Dyneema fiber rope which yields a maximum strength-to-weight ratio and is stronger than wire rope constructions, yet it will float on water & significantly reduces the weight of your tow bridle.

**E. Tow Leg Connection:** Both thimble and soft eyes are available, chafe gear is optional on the soft eye.

**F. Tow Leg / Bow Hardware:** We recommend using the Tylaska Large Bail swivel snap shackle for the tow leg connection, however we carry a large selection of stainless steel hardware.

**G. Snubber:** Truthfully, the snubber line is the only civilized way to complete your tow bridle. We typically make our snubbers of Dyneema fiber rope with your choice of soft or thimble eyes.

**H. Bow Hardware:** A stainless steel shackle is the most common connection from your tow bridle to the towed vessel, however we offer a wide selection of hardware.



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Company name:_____ E-mail: _____

Your name: _____ Questions or comments: _____

tel: _____ fax: _____ _____

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# BOAT SLINGS

STANDARD BOAT SLING MEASUREMENTS

1. Sling Width _____ in.
2. Sling Length _____ ft.
3. ❑ One, ❑ Two Ply, ❑ Three Ply, or ❑ Four Ply. (check choice)
4. Width of eyes _____ in.

SLING MATERIAL

Low stretch polyester webbing is standard because it helps to reduce chine marring. Nylon webbing is available, but will stretch about 50% more than polyester and should not be used near acids. HS Polymer Treatment extends sling life.

❑ POLYESTER - Natural or Teated (circle choice)

❑ NYLON - Natural or Treated (circle choice)

A. Extra Eyes - for shortening sling to lift smaller craft. See Measurement #5

❑ Extra Eye #1 - Position _____ ft. from point X / Y (circle choice)

❑ Extra Eye #2 - Position _____ ft. from point X / Y (circle choice)

❑ Extra Eye #3 - Position _____ ft. from point X / Y (circle choice)

B. Quick Disconnect With Flaps - Saves time needed to lower the lift for removing slings from the hooks. Available for 6" or wider only. Protective flap to cover pin is standard. See Measurement #6. Position _____ ft. from point X / Y.

C. Quick Disconnect Pin - This reusable pin is necessary for Quick Disconnect operation. Pin is galvanized for corrosion resistance. GAC wire with retaining clip holds pin in place.

D. Keel Pad - Helps protect the sling from abrasion and cutting. Sliding sleeve style allows sling to adjust to center point without scraping along keel. Pad uses the same webbing as the sling. Standard length is 48".

❑ Sliding Style - Length _____ ft.

❑ Sewn-on Style - Length _____ ft.

E. Keel Pad Weights - Lead weights allow for speedy submersion of sling.

F. Chine Pads - Helps to protect boat chines and rub rails and the sling from abrasion damage. Sliding pad can be positioned to accommodate any size and style of boat. May be sewn to sling per your specification. Pad uses the same webbing as the sling. Standard length is 48".

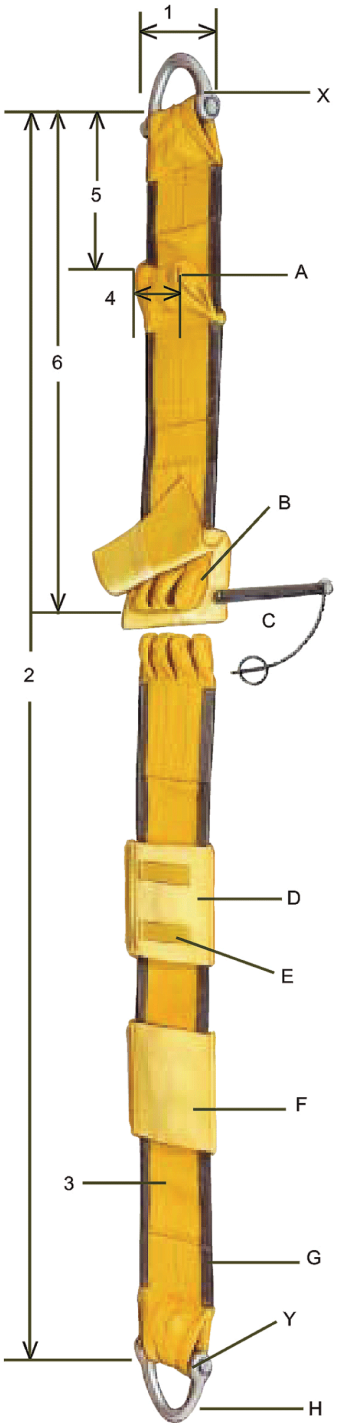
❑ Sliding - Quantity _____Length _____ ft.

❑ Sewn-on - Quantity _____Length _____ ft. Starting _____ ft. from X / Y

G. Edgeguard - Special wear resistant webbing applied to sling edges to help protect the sling from abrasion.

H. Pull Pin Shackles - Promotes sling life by protecting eyes of sling. Easier attachment of sling to lifting hook. Galvanized steel for corrosion resistance. Reusable.

❑ Quantity _____






Miami Cordage
Florida Wire & Rigging Works

Family owned & operated Since 1960

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Company name:_____ E-mail: _____

Your name: _____ Questions or comments: _____

tel: _____ fax: _____ _____

# GRADE 100 & 120 ALLOY CHAIN SLINGS

**Chain slings can be delivered with Connex connecting links and accessories ready fitted, with CLEVIS fittings, or in welded construction. Should you require any chain sling assemblies other than those shown here, please send us a sketch of the desired model. The standard tolerance for the length "L" is +2 chain pitch.**

**Check the Chain for your sling:** ☐ Grade 80 ☐ Grade 120

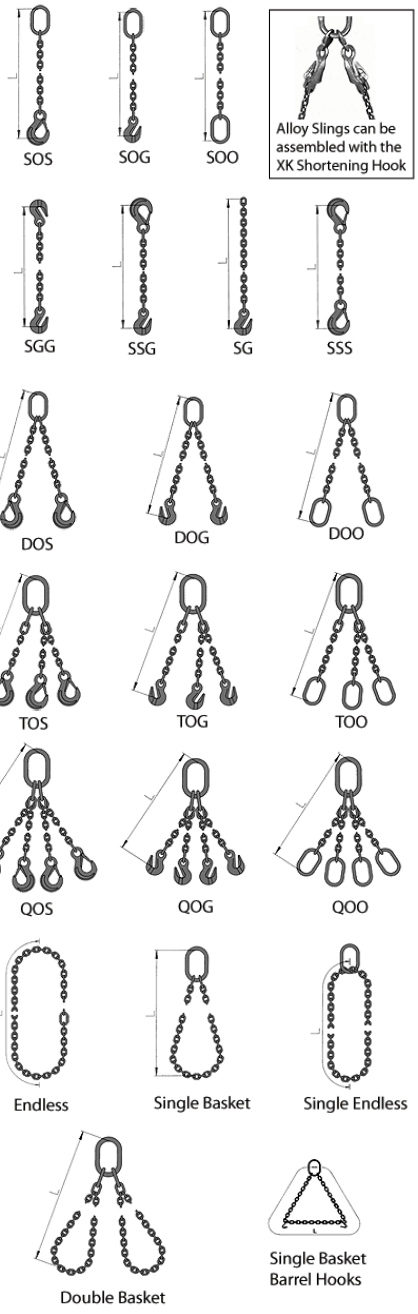
**Diameter of Chain: _____ inches**

**Length of leg/s: _____ feet**

**Check off the type of chain sling you are interested in:**

| | Part # | Description |
|---|---|---|
| ☐ | SOS | Single Chain Sling with Master Link & Sling Hook |
| ☐ | SOG | Single Chain Sling with Master Link & Grab Hook |
| ☐ | SOO | Single Chain Sling with Master Link on each end |
| ☐ | SGG | Single Chain Sling with Grab Hook on each end |
| ☐ | SSG | Single Chain Sling with Sling Hook & Grab Hook |
| ☐ | SG | Single Chain Sling with Grab Hook on one end |
| ☐ | SSS | Single Chain Sling with Sling Hook on each end |
| ☐ | DOS | Double Chain Sling with Master Link & Sling Hooks |
| ☐ | DOG | Double Chain Sling with Master Link & Grab Hooks |
| ☐ | DOO | Double Chain Sling with Master Links on every end |
| ☐ | TOS | Triple Chain Sling with Master Link & 3 Sling Hooks |
| ☐ | TOG | Triple Chain Sling with Master Link & 3 Grab Hooks |
| ☐ | TOO | Triple Chain Sling with Master Links on every end |
| ☐ | QOS | Quadruple Chain Sling with Master Link & 4 Sling Hooks |
| ☐ | QOG | Quadruple Chain Sling with Master Link & 4 Grab Hooks |
| ☐ | QOO | Quadruple Chain Sling with Master Links on every end |
| ☐ | Endless | Endless loop of chain |
| ☐ | Single Basket | Master Link with Chain Basket |
| ☐ | Single Endless | Master Link with Endless loop of chain |
| ☐ | Double Basket | Master Link with 2 Chain Baskets |
| ☐ | Single Basket Barrel Hooks | Master Link with Chain Basket with Barrel Hooks |

☐ Custom (write in what you want)

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Company name:_____ E-mail: _____

Your name: _____ Questions or comments: _____

tel: _____ fax: _____ _____

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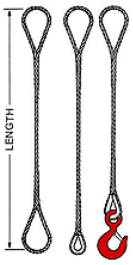
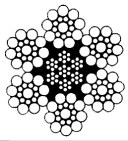
# WIRE ROPE SLINGS

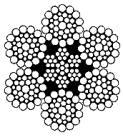
We have been making our clients custom wire slings for every application since 1956.




Check off the Wire Rope you want for your sling:



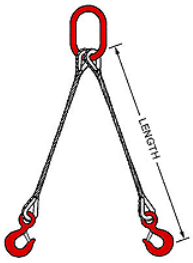
☐ 6 x 19 IWRC IPS



☐ 6 x 37 IWRC IPS

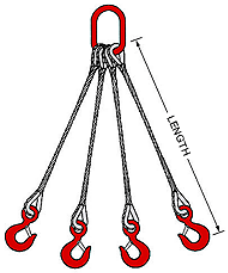
Diameter of Wire Rope: _____ inches

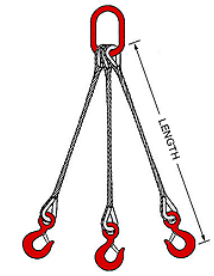
Length of leg/s: _____ feet

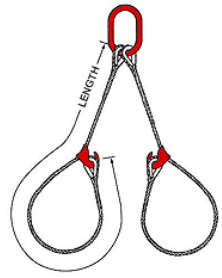



Check off the type of chain sling you are interested in:

| | Part # | Description |
|---|---|---|
| ☐ | SOS | Single Wire Rope Sling with Master Link & Sling Hook |
| ☐ | SOG | Single Wire Rope Sling with Master Link & Grab Hook |
| ☐ | SOO | Single Wire Rope Sling with Master Link on each end |
| ☐ | SGG | Single Wire Rope Sling with Grab Hook on each end |
| ☐ | SSG | Single Wire Rope Sling with Sling Hook & Grab Hook |
| ☐ | SG | Single Wire Rope Sling with Grab Hook on one end |
| ☐ | SSS | Single Wire Rope Sling with Sling Hook on each end |
| ☐ | DOS | Double Wire Rope Sling with Master Link & Sling Hooks |
| ☐ | DOG | Double Wire Rope Sling with Master Link & Grab Hooks |
| ☐ | DOO | Double Wire Rope Sling with Master Links on every end |
| ☐ | TOS | Triple Wire Rope Sling with Master Link & 3 Sling Hooks |
| ☐ | TOG | Triple Wire Rope Sling with Master Link & 3 Grab Hooks |
| ☐ | TOO | Triple Wire Rope Sling with Master Links on every end |
| ☐ | QOS | Quadruple Wire Rope Sling with Master Link & 4 Sling Hooks |
| ☐ | QOG | Quadruple Wire Rope Sling with Master Link & 4 Grab Hooks |
| ☐ | QOO | Quadruple Wire Rope Sling with Master Links on every end |
| ☐ | Endless | Endless loop of Wire Rope |
| ☐ | Single Basket | Master Link with Wire Rope Basket |
| ☐ | Single Endless | Master Link with Endless loop of Wire Rope |
| ☐ | Double Basket | Master Link with 2 Wire Rope Baskets |
| ☐ | Single Basket Barrel Hooks | Master Link with Chain Basket with Barrel Hooks |




| | |
|---|---|
| ☐ | Custom (write in what you want) |



Miami Cordage
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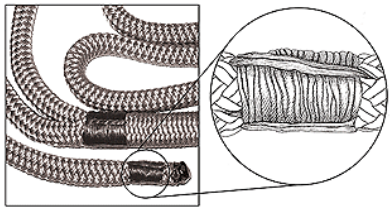
Company name:_____ E-mail: _____

Your name: _____ Questions or comments: _____

tel: _____ fax: _____ _____

# NYLON DOUBLE BRAID DOCKLINE



- The best rope for anchoring, docking, mooring & towing.
- Excels in strength, abrasion resistance & flexibility.
- Offers predictable, controlled elongation
- Eyes are hand spliced, whipped & sewn at throat & bitter end
- Custom chafing gear is available in leather, cordura or dipping.

| Available Diameters (in) | Available Colors |
|---|---|
| 1/4 | White |
| 5/16 | Black |
| 3/8 | Navy |
| 7/16 | Royal Blue |
| 1/2 | Teal |
| 5/8 | Hunter Green |
| 3/4 | Kelly Green |
| 7/8 | Brown |
| 1 | Gold |
| 1-1/4 | Burgundy |
| 1-1/2 | Red |
| 1-3/4 | Grey |
| 2 | Purple |
| 2-1/4 | Yellow |
| 2-1/2 | Orange |
| 2-3/4 | Pink |

Diameter of Rope: _____ inches

Length of Rope: _____ feet

We can make your rope in a wide range of colors and styles.
(Check one style and choose your colors)

☐ Solid

Choose one color: _____

☐ Half & Half

Choose two colors: _____

☐ Tracers

Main color: _____

Tracer color/s
(up to four): _____

Chafing gear adds years to the life to any Dockline & is well worth the investment.

Please check the chafing gear option you would like:

☐ Black Leather ☐ Black Cordura ☐ No chafing gear

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Your name: _____ Questions or comments: _____

tel: _____ fax: _____ _____

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# NYLON DOUBLE BRAID ANCHOR LINE

- The best rope for anchoring, docking, mooring & towing.
- Excels in strength, abrasion resistance & flexibility.
- Offers predictable, controlled elongation
- Eyes are hand spliced, whipped & sewn at throat & bitter end
- A choice of Stainless Steel or Galvanized Thimble

| Available Diameters (in) | Available Colors |
|---|---|
| 1/4 | White |
| 5/16 | Black |
| 3/8 | Navy |
| 7/16 | Royal Blue |
| 1/2 | Teal |
| 5/8 | Hunter Green |
| 3/4 | Kelly Green |
| 7/8 | Brown |
| 1 | Gold |
| 1-1/4 | Burgundy |
| 1-1/2 | Red |
| 1-3/4 | Grey |
| 2 | Purple |
| 2-1/4 | Yellow |
| 2-1/2 | Orange |
| 2-3/4 | Pink |

Diameter of Rope: _____ inches

Length of Rope: _____ feet

We can make your rope in a wide range of colors and styles.
(Check one style and choose your colors)

☐ Solid  Choose one color: _____

☐ Half & Half  Choose two colors: _____

☐ Tracers  Main color: _____

Tracer color/s
(up to four): _____

Please check the thimble you would like

☐ Stainless Steel ☐ Galvanized

☐ Stainless Steel / Heavy Duty ☐ Galvanized / Heavy Duty



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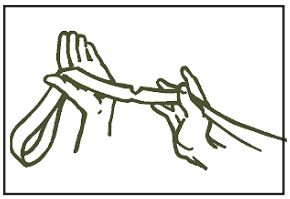
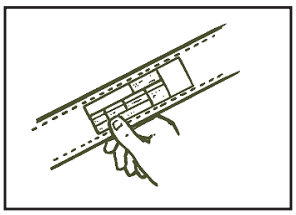
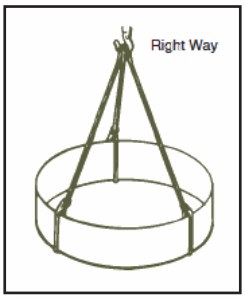
## GENERAL OSHA & MANUFACTURER REQUIREMENTS FOR ALL SLINGS



**Inspect slings** prior to each use and do not use if damaged, refer to specific sling type for inspection criteria.

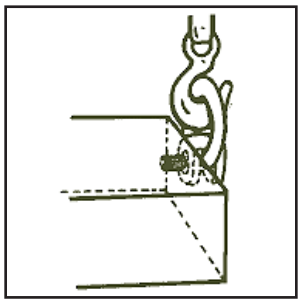


**Slings shall not** be loaded in excess of their rated capacities. Rated capacities (Working Load Limits) must be shown by markings or tags attached to all slings.

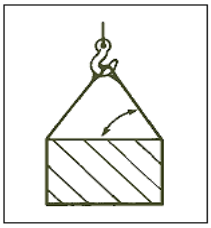



**Lift must be** stable with respect to center or gravity & balance.

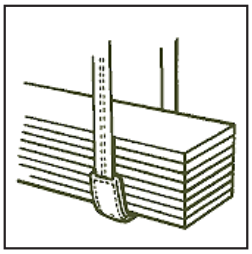

**Load must be** balanced.



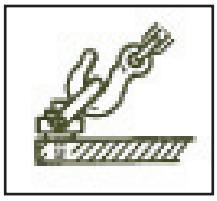
**Slings shall be** securely attached to their loads.



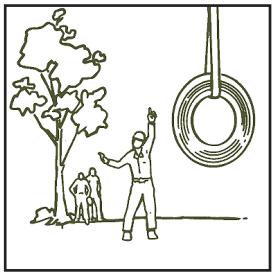
**Angle of lift** must be considered in all lifts.



**Slings shall be** padded or protected from the sharp edges of their loads.

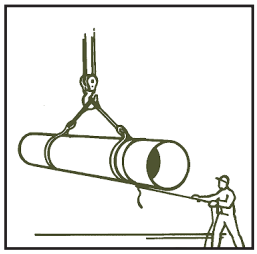


**Do not point** load hooks, center load in base of the hook.



**Suspended loads** shall be kept clear of all obstructions.

**All persons shall** be kept clear of loads to be lifted and suspended loads.



**Hands and fingers** shall not be placed between the sling and load while the sling is being tightened around the load. After lifting, the load should not be pushed or guided by employees hands directly on the load. Ropes or "tag lines" should be attached for this purpose.



⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**



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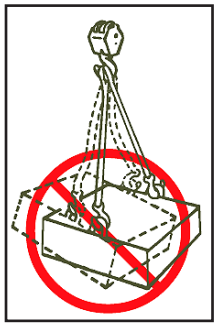
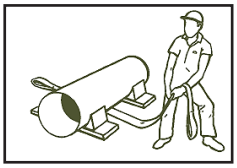
# SAFE OPERATING PRACTICES

## GENERAL OSHA & MANUFACTURER REQUIREMENTS FOR ALL SLINGS



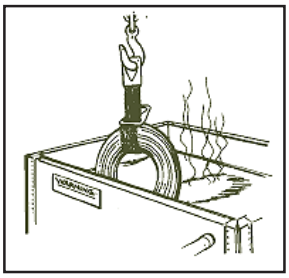
**Do not shock** load, jerking the load could overload the sling and cause it to fail.

**Sling legs shall** not be kinked or twisted.

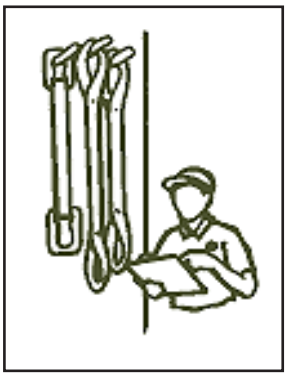


**A sling shall** not be pulled from under a load when the load is resting on the sling. Before a load is lifted, a place should be prepared where it is to be put down. Lumber can be used to allow space to remove the sling and prevent shifting of the load.

**Slings shall not** be dragged on the floor.



**Temperature** and chemical environment must be considered, see specific sling types for data.



**Slings shall be** stored in cool, dark, dry areas, preferably on racks.

**Slings shall not** be shortened with knots, bolts or makeshift devices.

⚠ **WARNING: Never exceed the Working Load Limit. Please refer to warnings on pages 4-6, and at the begining of this section.**

## INSPECTION

### DAILY INSPECTION
Each day before using, the sling, all fastenings and attachments shall be inspected for damage or defects by a competent person designated by the employer. Additional inspections shall be performed prior to each use where severe conditions warrant. Damaged or defective slings shall be immediately removed from service.

### PERIODIC INSPECTION
OSHA specifies that alloy steel chain slings shall have a thorough periodic inspection by a competent person at least once every 12 months. We recommend that all slings have a thorough inspection by a competent person at least once every 12 months. These inspections must be recorded and maintained for each individual sling.

In some instances, it is possible to repair slings, proof test and return them to service. Damaged components and sections of chain or wire mesh can be replaced. Hooks, links and other components that are in good condition can be salvaged from a damaged web or round sling, rewebbed, proof tested by us and returned to service.

### CHAIN INSPECTION PROCEDURE
Each link and each attachment shall be examined individually, taking care to expose inner link surfaces of chain and attachments.

### VISUAL INSPCTION
Check for wear, nicks, cracks, breaks, gouges, stretch, bends, weld splatter, discoloration from excessive heat and throat opening of hooks.

### REPAIR
We strongly advise that damaged slings be repaired only by the manufacturer.



## PHYSICAL FACTORS THAT AFFECT THE STRENGTH OF SLINGS

Your care in the use and handling will prolong sling life significantly. The following physical factors should be considered when using any of the slings in this catalog:

### CUTTING & NICKING
Nicking or gouging of steel slings and cutting of synthetic slings are the most common cause of sling failure. This type of damage is usually caused by a sharp or small diameter load edge against the sling and can often be prevented with proper padding.

### IMPROPER LOADING
Shock loading, unbalanced loading, over loading and inadequate consideration for the effect of angle factors can adversely affect safety. Make sure the load weight is within the rated capacity of the sling(s) being used for both type of hitch and angle of lift. See “Effect of Angle of Lift” diagrams on the next page.

### TEMPERATURE
Avoid loads and environments where temperatures exceed the limits of the slings being used. All slings can be damaged by excessive heat.

### PUNCTURES & ABRASIONS
Punctures and abrasions can seriously degrade sling strength. Rough load surfaces and dragging slings on the ground will damage all slings, steel or synthetic. Use proper padding between slings and rough loads. Never drag slings on ground or concrete floors.

### FOREIGN MATTER
Material such as metal chips and heavy grit can damage web slings, both internally and externally. Both synthetic and steel slings can be damaged by weld spatter and heat from a welding torch. Avoid contact with foreign matter whenever possible.

### ULTRAVIOLET LIGHT
Nylon and polyester web slings are adversely affected by prolonged exposure to UV light, i.e. sunlight or arc welding. Inspect and remove from use if slings appear bleached and stiff. Store slings properly when not in use, see below

### IMPROPER STORAGE
Even in storage, synthetic and steel slings can degrade if not kept in clean, dry conditions. We recommend hanging slings on a rack. Web slings should be stored in a dark area to avoid unnecessary sunlight/UV degradation.

### CHEMICAL ENVIRONMENT
Slings exposed to certain chemicals or the vapors of these chemicals can lose some or all of their strength. When using slings in a chemical environment, contact us to assure sling compatibility.

# EFFECT OF ANGLE OF LIFT ON A SLING'S RATED CAPACITY

Using slings at an angle can become deadly if that angle is not taken into consideration when selecting the sling to be used. The tension on each leg of the sling is increased as the angle of lift, from horizontal, decreases. It is most desirable for a sling to have a larger angle of lift, approaching 90°. Lifts with angles of less than 30° from horizontal are not recommended. If you can measure the angle of lift or the length and height of the sling as rigged, you can determine the properly rated sling for your lift.

**What would be the rating of each sling rigged at this angle?**

**1. Calculate the Reduction Factor [RF]**

- Using the angle from horizontal, read across the Angle Chart to the corresponding number of the Reduction Factor column.

- OR -

- Divide sling height* [H] by sling length* [L].

* Measured from a common horizontal plane to the hoisting hook.

**2. Calculate the Sling's Reduced Rating**

Reduction Factor [RF] x the sling's rated capacity for the type hitch that will be used = Sling's Reduced Rating.

**Example #1:**
Vertical Choker rating of each sling = 6,000 lbs.
Measured Length (L) = 6 ft.
Measured Height (H) = 4 ft.
Reduction Factor (RF) = 4 (H) ÷ 6 (L) = 0.667
Reduced sling rating in this configuration = 0.667 (RF) x 6,000 lbs. = 4,000 lbs. of lifting capacity/sling

| Reduction Factor (RF) | Angle From Horizontal | Tension Factor (TF) |
|---|---|---|
| 1.000 | 90° | 1.000 |
| 0.996 | 85° | 1.004 |
| 0.985 | 80° | 1.015 |
| 0.966 | 75° | 1.035 |
| 0.940 | 70° | 1.064 |
| 0.906 | 65° | 1.104 |
| 0.866 | 60° | 1.155 |
| 0.819 | 55° | 1.221 |
| 0.766 | 50° | 1.305 |
| 0.707 | 45° | 1.414 |
| 0.643 | 40° | 1.555 |
| 0.574 | 35° | 1.742 |
| 0.500 | 30° | 2.000 |

Sling capacity decreases as the angle from horizontal decreases. Sling angles of less than 30° are not recommended.

**What capacity sling do I need?**

**1. Determine the weight that the sling will be lifting [LW].**

**2. Calculate the Tension Factor [TF].**

- Using the angle from horizontal, read across the angle chart to the corresponding number of Tension Factor column.

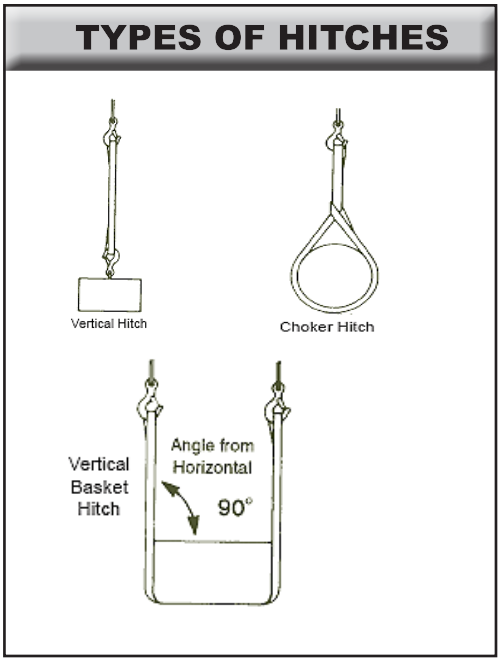
- OR -

- Divide sling length* [L] by sling height* [H].

**3. Lifting Weight [LW] x the Tension Factor [TF] = Minimum Sling Rating for the type of hitch that will be used.**

**Example #2**:
Load weight = 1,000 lbs.
Rigging - 2 slings in vertical hitch
Lifting Weight (LW) per sling = 500 lbs.
Measured Length (L) = 10 ft.
Measured Height (H) = 5 ft.
Tension Factor (TF) = 10 (L) ÷ 5 (H) = 2.0
Minimum Vertical Rated Capacity required for this lift = 500 (LW) x 2.0 (TF) = 1000 lbs./sling

## TYPES OF HITCHES



## IMPORTANT CONSIDERATIONS

Before buying or using a sling, know as much as possible about the lift you will make to minimize the potential dangers to personnel, product and property. All of the following items should be evaluated.

### Environment

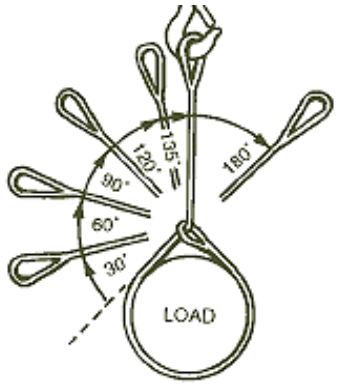
- Crane and load foundation
- Obstruction in path of travel and for head height
- Power lines or other hazards
- Chemical conditions
- Temperature of load and surroundings
- Location of people - away from danger
- Inspect all equipment

### Load

- Weight of load
- Center of gravity (drain liquids)
- Pick-up point integrity, including location and number
- Edges that may damage sling
- Abrasive areas that may damage sling
- Secure or remove loose parts
- Structural integrity (bending and crushing)

### Rigging

- Type of sling required, including number of legs
- Type of hitch required
- Balance of load and stability, including flexing
- Prevention of load shift and movement against sling
- Angle of lift
- Tag line and spotter requirements
- Plan and procedures



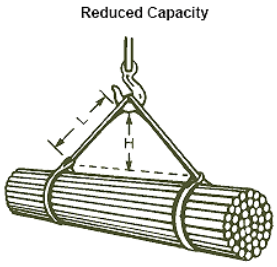

**Choker Hitch Angles**

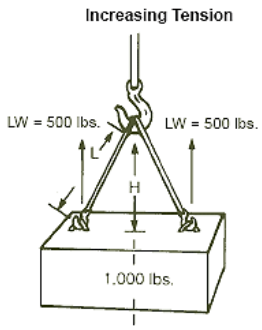
When lifting and turning a load using a choker hitch, it is not uncommon to bend the body of the sling around the choker loop and have a severe bend occur around the body at this point.

For choker angles of 120° or less, the choker rating must be reduced by multiplying the corresponding factor times the slings standard choker rating.

| Angle of Choke | Factor |
|---|---|
| Over 120° | 1.00 |
| 90° - 120° | 0.87 |
| 60° - 89° | 0.74 |
| 30° - 59° | 0.62 |
| 0° - 29° | 0.49 |

**Sling capacity decreases as choke angle decreases**





**Effect of Anchor Shackle Pin or Crane Hook on Sling Eye**

Damage to slings can occur if the wrong size pin or hook is used. The width of the pin or hook should never exceed the natural inside width of the eye.

The eye dimension for each type and size of sling are shown in the capacity tables of this catalog. If your pin or hook is large, request an oversized eye for the sling.

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# CONVERSION CHARTS

## METRIC WEIGHT

| | | |
|---|---|---|
| 10 milligrams | = | 1 centigram |
| 10 centigrams | = | 1 decigram |
| 10 decigrams | = | 1 gram |
| 10 grams | = | 1 dekagram |
| 10 dekagrams | = | 1 hectograms |
| 10 hectograms | = | 1 kilogram |
| 1,000 kilograms | = | 1 metric ton |

## CROSS REFERENCE MICRONS TO MIL THICKNESS

| Microns | MIL Thickness |
|---|---|
| 12.7 | 0.00050 |
| 13.6 | 0.000535 |
| 14 | 0.00055 |
| 15 | 0.00059 |
| 16 | 0.00063 |
| 17 | 0.00067 |
| 18 | 0.00071 |
| 19 | 0.00075 |
| 20 | 0.00079 |
| 21 | 0.00083 |
| 22 | 0.00087 |
| 23 | 0.00091 |
| 24 | 0.00094 |
| 25 | 0.00098 |
| 25.4 | 0.001 |

## US CUSTOMARY SYSTEM LINEAR MEASUREMENTS

| | | |
|---|---|---|
| 12 inches | = | 1 foot |
| 3 feet | = | 1 yard |
| 5.5 yards | = | 1 rod |
| 40 rods | = | 1 furlong |
| 8 furlongs | = | 1 mile |
| 3 land miles | = | 1 league |

## LIQUID MEASURE

| | | |
|---|---|---|
| 4 gills (2cups) | = | 1 pint |
| 2 pints | = | 1 quart |
| 4 quarts | = | 1 gallon |

## DRY MEASURE

| | | |
|---|---|---|
| 2 pints | = | 1 quart |
| 8 quarts | = | 1 peck |
| 4 pecks | = | 1 bushel |

## WEIGHT

| | | |
|---|---|---|
| 27 11/32 grains | = | 1 dram |
| 16 drams | = | 1 ounce |
| 16 ounces | = | 1 pound |
| 100 pounds | = | 1 hundredweight |
| 20 hundredweight | = | 1 san |

## KITCHEN MEASUREMENTS

| | | |
|---|---|---|
| 3 tsp | = | 1 tbsp |
| 4 tbsp | = | 1/4 cup |
| 5 1/3 tbsp | = | 1/3 cup |
| 16 tbsp | = | 1 cup |
| 2 cups | = | 1 pint |
| 4 cups | = | 1 quart |
| 2 pints | = | 1 quart |
| 4 quarts | = | 1 gallon |

## TEMPERATURE

| | | |
|---|---|---|
| Celsius | = | .5555 (F-32) |
| Fahrenheit | = | 9C/5 + 32 |

# CONVERSION CHARTS

## METRIC LINEAR CONVERSION CHART

| To Convert | Into | Multiply By |
|---|---|---|
| Centimeters | Inches | 0.394 |
| | Feet | 0.0328 |
| | Meters | 0.01 |
| | Millimeters | 10 |
| Meters | Centimeters | 100 |
| | Feet | 3.281 |
| | Inches | 39.37 |
| | Kilometers | 0.001 |
| | Miles | 0.0006214 |
| | Millimeters | 1000 |
| | Yards | 1.093 |
| Kilometers | Feet | 3281 |
| | Meters | 1000 |
| | Miles | 0.621 |
| | Yards | 1093 |

## METRIC VOLUME CONVERSION CHART

| To Convert | Into | Multiply By |
|---|---|---|
| Liters | Cups | 4.226 |
| | Pints | 2.113 |
| | Gallons | 0.264 |
| | Milliliters | 1000 |
| | Quarts | 1.057 |
| Grams | Ounces | 0.035 |
| | Pounds | 0.002 |
| | Kilograms | 0.001 |
| Kilograms | Grams | 1000 |
| | Ounces | 35.274 |
| | Pounds | 2.205 |

## US STANDARD TO METRIC CONVERSION CHART

| To Convert | Into | Multiply By |
|---|---|---|
| Inches | Centimeters | 2.54 |
| | Feet | 0.0833 |
| | Meters | 0.0254 |
| | Yards | 0.0278 |
| Yards | Inches | 36 |
| | Feet | 3 |
| | Meters | 0.914 |
| | Miles | 0.0005682 |
| Miles | Feet | 5280 |
| | Yards | 1760 |
| | Kilometers | 1.609 |

## VOLUME CONVERSION

| To Convert | Into | Multiply By |
|---|---|---|
| Pints | Liters | 0.473 |
| | Quarts | 0.5 |
| | Gallons | 0.125 |
| Quarts | Pints | 2 |
| | Liters | 0.946 |
| | Gallons | 0.25 |
| Gallons | Pints | 8 |
| | Liters | 3.785 |
| | Quarts | 4 |
| Ounces | Grams | 28.35 |
| | Pounds | 0.0625 |
| | Kilograms | 0.029 |
| Pounds | Grams | 453.59 |
| | Ounces | 16 |
| | Kilograms | 0.454 |

## METRIC LINEAR MEASUREMENT

| | | |
|---|---|---|
| 10 millimeters | = | 1 centimeter |
| 10 centimeters | = | 1 decimeter |
| 10 decimeters | = | 1 meter |
| 10 meters | = | 1 decameter |
| 10 decameter | = | 1 hectometer |
| 10 hectometer | = | 1 kilometer |

## METRIC AREA MEASUREMENT

| | | |
|---|---|---|
| 100 sq. millimeters | = | 1 sq. centimeters |
| 10,000 sq centimeters | = | 1 sq. meter |
| 1,000,000 sq. millimeters | = | 1 sq. meter |
| 100 sq. meters | = | 1 are |
| 100 areas | = | 1 hectare |
| 100 hectares | = | 1 sq kilometer |
| 1,000,000 sq. meters | = | 1 sq. kilometer |

## METRIC VOLUME MEASUREMENTS

| | | |
|---|---|---|
| 1 liter | = | 0.001 cubic meter |
| 10 milliliters | = | 1 centiliters |
| 10 centiliters | = | 1 deciliter |
| 10 deciliter | = | 1 liter |
| 10 liters | = | 1 deciliter |
| 10 deciliter | = | 1 hectoliter |
| 10 hectoliters | = | 1 kiloliter |

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# NOTES