

# Hooked on SERVICE

On our way to our 20<sup>th</sup> !

# « The Customer is King »

The saying has survived and all have proclaimed it loudly. The voice may carry but if the results do not follow it, the CUSTOMER is not KING any longer. At Ben-Mor, we prefer action to noise. That is why we whisper it in all confidence:

« Ben-Mor knows the meaning of the word “customer”, the consequences of the word “trust”, and the notion of faithfulness to the King; »

« Ben-Mor's team makes sure that its precious team spirit, mutual aid and mutual respect is constantly renewed; »

« The same team is fully engaged, on a daily basis, to reinvent the highest quality standards; »

« Finally, dear customer, we wish to assure you that at all times, we will work to offer you the best products possible at a price that will show our gratitude toward you. »

Thank you from the whole team.

|                           |       |
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|                           |                    |
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|                             |              |
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Dear Customers,

Our new catalogue demonstrates the rapid evolution of Ben-Mor. The improvements in our product lines and services are mostly the result of our Canadian and American acquisitions: Continental Cable & GBG, Steelplast, Strata, Turner & Seymour and others.

The # 1 reason for our success: a multi-disciplinary team who works for you. Our team is devoted to serving you the best possible way.

I would like to take this opportunity to thank all of you for your trust and support through the years. Our excellent business relationship is taking us to the top. With your help, we are celebrating 18 years in business.

To maintain this high level of satisfaction, I want to assure you, we promise an active management transition and a dynamic team for many years.

In this attached picture, it is my pleasure to introduce you to my partners and shareholders, the pillars of Ben-Mor.

I remain at your service,

Benoît Frappier,  
CEO



Benoît Frappier, President and CEO of Ben-Mor with his associates  
Richard Plante, V-P Sales & Marketing, Lyne-Mireille Leduc, V-P Finances, and Éric Rompré, V-P Production



## CABLE ASSEMBLIES



## COATED CABLES



## CABLES & WIRE ROPE



## ACCESSORIES



## STAINLESS STEEL ACCESSORIES



## LIFTING



## CHAIN



## TOOLS



## FORESTRY TRANSPORT ASSEMBLIES



## ROPE TWINE CORDAGE



## TIE WIRE



## CONVERSION TABLE GLOSSARY SALES CONDITIONS



## BEN-MOR TEAM





# The Cable Assemblies Specialists

## Precision-Machined Components



CNC lathes, milling machines and a full complement of secondary machines gives us the ability to manufacture fittings for many of our assembly requirements.



## Assembly



## Superior Quality Control

From material receiving through final outgoing inspection, quality control is carefully monitored. At our facility, in-process quality inspection is an overall effort performed at each stage of production with documented control.

Wire rope and cable products are tested to specified levels of performance, using both destructive and non-destructive test methods. We conform to applicable Military and ISO Standards.







## Automated precision cuts



With a variety of hydraulic swagers and rotary swaging machines, we are capable of swaging 3/64" through 3 1/2" diameter fittings. We are also equipped to swage specialty bar and tubing onto cable. Automatic cut-off machinery and bench swagers couple to turn out a finished product at a competitive price.

## High quality swaging



## Zinc Die Cast Technology

Zinc die cast termination offers advantages that are difficult or nearly impossible to achieve with traditional swaging methods.

The benefits of zinc die cast termination to consider when designing your cable assembly are:

- **High Strength:** Zinc die cast termination will exceed the nominal published breaking strength of the cable in most cases.

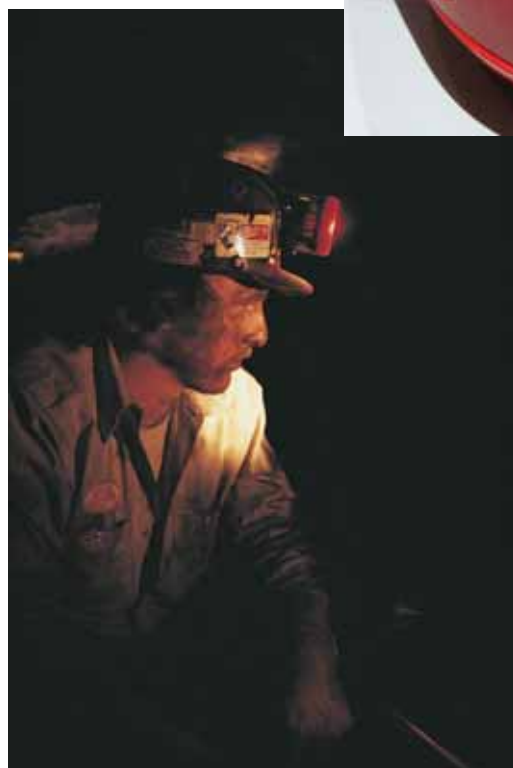
- **Expanded Design Advantages:** Allows shapes to meet specific needs that would not be feasible with swaged fittings.





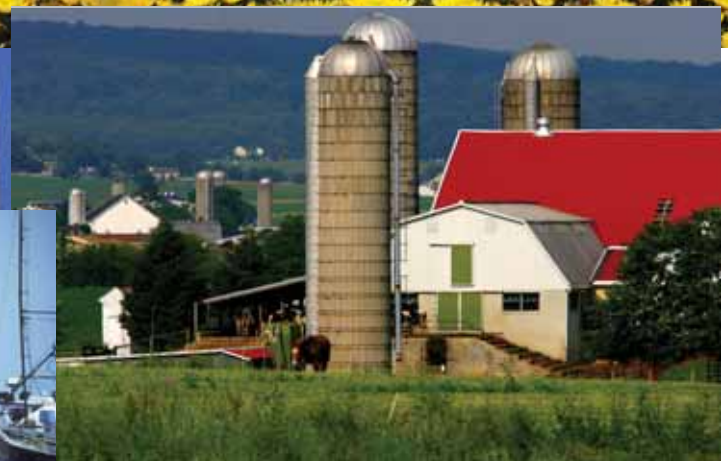


On earth, in the sky or on the sea...





***Endless possibilities !***







AS 9100  
ISO 9001  
MIL-DTL-83420

North American  
Made Quality



New Hampshire

North American Made Quality





AS 9100  
ISO 9001  
MIL-SPEC

On October 2, 2006, Ben-Mor Cables, Inc. acquired Continental Cable Company located in Hinsdale, New Hampshire, USA.

Continental Cable and its affiliates have been producing wire rope since 1948. The company has evolved into a leading manufacturer of custom wire rope and cable assemblies. Continental Cable expanded its product line to include an extensive stock of cable hardware with the acquisition of GBG Industries in 1989.

Continental Cable is an ISO9001:2000 and AS9100:2004 company which is essential when serving the aircraft industry. Also, Continental Cable is a qualified products list producer of MIL-DTL-83420 aircraft control cable as well as Federal Specification RR-W-410. With these qualifications, we are able to provide military and federal specification products for the aircraft and industrial markets.

The swaging, stranding, extrusion and machining capabilities of Continental Cable combined with the distinct service of Ben-Mor Cables make a perfect match. We look forward to providing the quality products and services you have come to expect.





## MIL-DTL-83420

Continental Cable is an approved source for MIL-DTL-83420. Wire rope manufactured under this specification has been qualified by a test facility located in the continental United State or Canada. The specification MIL-DTL-83420 establishes all of the requirements for each size of wire rope for each type, composition, and construction.. The specific requirements refer to:

- Steel composition
- Tin and zinc coating composition
- Lubricant
- Construction
- Wire properties
- Preforming
- Splicing and joining
- Twist-off
- Temperature range \*
- Wire flexibility
- Stretch limits
- Test load
- Resistance to fluid
- Color-coding identification
- Breaking strength
- Endurance
- Ductility of steel

*\* The wire rope shall be capable of operation in wind, dust, fuel, oil spills, wash-down, and other aircraft environmental stresses and experiences within a -65F to +250 F ( -54 C to 121 C) temperature range.*



## MIL-DTL-83420

We are qualified to manufacture wire rope & cable under the detailed specification MIL-DTL-83420 for all of the products listed.

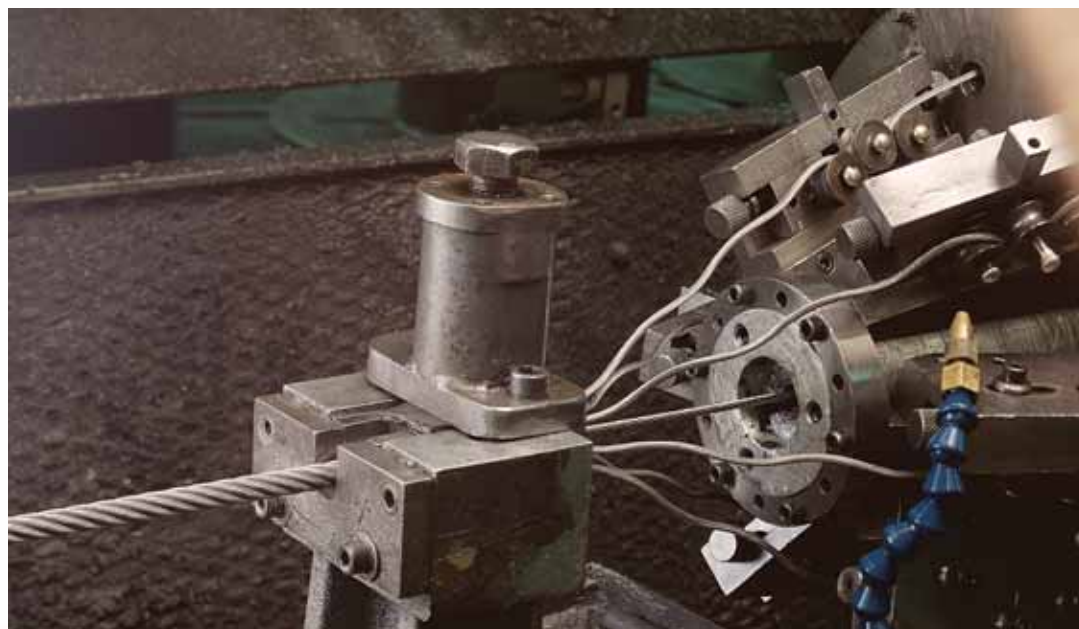
### Type 1 - Comp A - Galvanized

| Code         | Construction | Diameter in. | Breaking Strength lbs | Weight per 100 feet lbs |
|--------------|--------------|--------------|-----------------------|-------------------------|
| GML047N-MFGC | 7 x 7        | 3/64         | 270                   | 0.42                    |
| GML063N-MFGC | 7 x 7        | 1/16         | 480                   | 0.75                    |
| GML094N-MFGC | 7 x 7        | 3/32         | 920                   | 1.6                     |
| GML094P-MFGC | 7 x 19       | 3/32         | 1,000                 | 1.6                     |
| GML125P-MFGC | 7 x 19       | 1/8          | 2,000                 | 2.9                     |
| GML156P-MFGC | 7 x 19       | 5/32         | 2,800                 | 4.5                     |
| GML188P-MFGC | 7 x 19       | 3/16         | 4,200                 | 6.5                     |
| GML250P-MFGC | 7 x 19       | 1/4          | 7,000                 | 11                      |

### Type 1 - Comp B - Stainless Steel 302/304

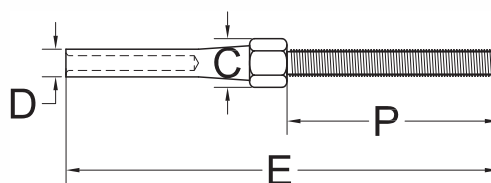
| Code         | Construction | Diameter in. | Breaking Strength lbs | Weight per 100 feet lbs |
|--------------|--------------|--------------|-----------------------|-------------------------|
| SML047N-MFGS | 7 x 7        | 3/64         | 270                   | 0.42                    |
| SML063N-MFGS | 7 x 7        | 1/16         | 480                   | 0.75                    |
| SML063P-MFGS | 7 x 19       | 1/16         | 480                   | 0.75                    |
| SML094N-MFGS | 7 x 7        | 3/32         | 920                   | 1.6                     |
| SML094P-MFGS | 7 x 19       | 3/32         | 920                   | 1.6                     |
| SML125P-MFGS | 7 x 19       | 1/8          | 1,760                 | 2.9                     |
| SML156P-MFGS | 7 x 19       | 5/32         | 2,400                 | 4.5                     |
| SML188P-MFGS | 7 x 19       | 3/16         | 3,700                 | 6.5                     |
| SML219P-MFGS | 7 x 19       | 7/32         | 5,000                 | 8.6                     |
| SML250P-MFGS | 7 x 19       | 1/4          | 6,400                 | 11                      |
| SML375P-MFGS | 7 x 19       | 3/8          | 12,000                | 24.3                    |

Other size available upon request.





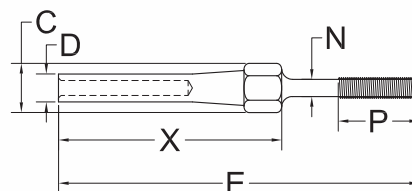
## Threaded Aircraft Fittings MS21259 (Stainless Steel)



| RH or LH<br>Thread<br>Code | For Cable<br>Diameter | Weight ea.<br>lbs | Thd. D<br>NF-3A or<br>UNF-3A | Dimensions<br>in. |                      |                     |                                        |                     |       |
|----------------------------|-----------------------|-------------------|------------------------------|-------------------|----------------------|---------------------|----------------------------------------|---------------------|-------|
|                            |                       |                   |                              | C                 | D<br>Before<br>swage | D<br>After<br>swage | E<br>+.015<br>-.000<br>Before<br>swage | E<br>After<br>swage | P     |
| MS21259-2                  | 1/16                  | 0.0100            | 6-40                         | .188              | .160                 | .138                | 2.473                                  | 2.65                | 1.045 |
| MS21259-3                  | 3/32                  | 0.0225            | 10-32                        | .250              | .218                 | .190                | 2.879                                  | 2.996               | 1.204 |
| MS21259-4                  | 1/8                   | 0.0375            | 1/4-28                       | .313              | .250                 | .219                | 3.333                                  | 3.589               | 1.376 |
| MS21259-5                  | 5/32                  | 0.0475            | 1/4-28                       | .313              | .297                 | .250                | 3.627                                  | 3.972               | 1.376 |
| MS21259-6                  | 3/16                  | 0.0800            | 5/16-24                      | .375              | .359                 | .313                | 4.002                                  | 4.170               | 1.458 |
| MS21259-7                  | 7/32                  | 0.1200            | 3/8-24                       | .438              | .427                 | .375                | 4.516                                  | 4.812               | 1.625 |
| MS21259-8                  | 1/4                   | 0.1650            | 3/8-24                       | .500              | .494                 | .438                | 4.937                                  | 5.236               | 1.750 |
| MS21259-9                  | 9/32                  | 0.2650            | 7/16-20                      | .625              | .563                 | .500                | 5.391                                  | 5.750               | 1.875 |
| MS21259-10                 | 5/16                  | 0.3750            | 1/2-20                       | .688              | .635                 | .563                | 5.844                                  | 6.266               | 2.000 |
| MS21259-12                 | 3/8                   | 0.5000            | 9/16-18                      | .750              | .703                 | .625                | 6.656                                  | 7.069               | 2.250 |
| MS21259-14                 | 7/16                  | 0.6250            | 5/8-18                       | .812              | .781                 | .688                | 7.437                                  | 7.910               | 2.500 |
| MS21259-16                 | 1/2                   | 0.7500            | 5/8-18                       | .875              | .844                 | .750                | 8.187                                  | 8.742               | 2.500 |

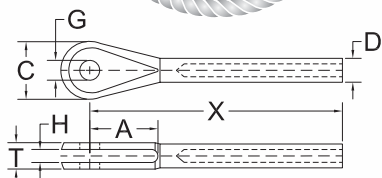
\*Available on request: Left-hand thread.

## Threaded Aircraft Fittings MS21260 (Stainless Steel)



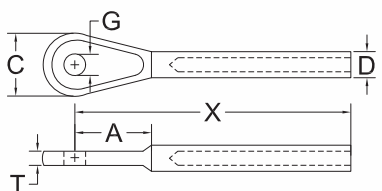
| RH or LH<br>Thread<br>Code |            | For Cable<br>Diameter<br>in. | Weight<br>ea.<br>lbs | Thd. B<br>NF-3A or<br>UNF-3A | Dimensions<br>in. |                      |                     |                               |                     |                     |            |                     |
|----------------------------|------------|------------------------------|----------------------|------------------------------|-------------------|----------------------|---------------------|-------------------------------|---------------------|---------------------|------------|---------------------|
|                            |            |                              |                      |                              | C                 | D<br>Before<br>swage | D<br>After<br>swage | E<br>±.063<br>Before<br>swage | E<br>After<br>swage | N<br>+.006<br>-.000 | P<br>±.047 | X<br>After<br>swage |
| MS21260-                   | L-2<br>S-2 | 1/16                         | 0.010<br>0.011       | 6-40                         | .188              | .160                 | .138                | 3.491<br>2.616                | 3.669<br>2.794      | .092                | .375       | 1.319               |
| MS21260-                   | L-3<br>S-3 | 3/32                         | 0.020<br>0.024       | 10-32                        | .250              | .218                 | .190                | 3.738<br>2.863                | 3.855<br>2.980      | .133                | .500       | 1.581               |
| MS21260-                   | L-4<br>S-4 | 1/8                          | 0.024<br>0.040       | 1/4-28                       | .313              | .250                 | .219                | 4.020<br>3.145                | 4.276<br>3.401      | .195                | .563       | 1.863               |
| MS21260-                   | L-5<br>S-5 | 5/32                         | 0.044<br>0.050       | 1/4-28                       | .313              | .297                 | .250                | 4.314<br>3.439                | 4.659<br>3.784      | .195                | .625       | 2.157               |
| MS21260-                   | L-6<br>S-6 | 3/16                         | 0.070<br>0.086       | 5/16-24                      | .375              | .359                 | .313                | 4.612<br>3.737                | 4.780<br>3.905      | .245                | .750       | 2.455               |
| MS21260-7                  |            | 7/32                         | .130                 | 3/8-24                       | .438              | .427                 | .375                | 4.914                         | 5.210               | .306                | .875       | 2.257               |
| MS21260-8                  |            | 1/4                          | .170                 | 3/8-24                       | .500              | .494                 | .438                | 5.218                         | 5.517               | .306                | .875       | 3.061               |
| MS21260-9                  |            | 9/32                         | .22                  | 7/16-20                      | .625              | .563                 | .500                | 5.542                         | 5.901               | .361                | 1.000      | 3.385               |
| MS21260-10                 |            | 5/16                         | .35                  | 1/2-20                       | .688              | .635                 | .563                | 5.875                         | 6.297               | .406                | 1.000      | 3.718               |
| MS21260-12                 |            | 3/8                          | .50                  | 9/16-18                      | .750              | .703                 | .625                | 6.608                         | 7.021               | .476                | 1.125      | 4.281               |
| MS21260-14                 |            | 7/16                         | .75                  | 5/8-18                       | .812              | .781                 | .688                | 7.468                         | 7.941               | .538                | 1.250      | 4.812               |
| MS21260-16                 |            | 1/2                          | 1.00                 | 5/8-18                       | .875              | .844                 | .750                | 8.718                         | 9.273               | .538                | 1.250      | 5.562               |

\*Available on request: Left-hand thread.



**Aircraft Jaw Fitting MS20667**  
(Stainless Steel)

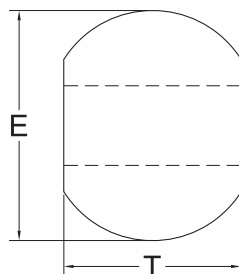
| Code       | For Cable Diameter in. | Weight ea. lbs | Dimensions in. |       |                |               |      |                |         |                  |                |               |
|------------|------------------------|----------------|----------------|-------|----------------|---------------|------|----------------|---------|------------------|----------------|---------------|
|            |                        |                | A              | C     | D Before swage | D After swage | G    |                | H ±.003 | T +.010<br>-.005 | X Before swage | X After swage |
|            |                        |                |                |       |                |               | Dia. | Tol.           |         |                  |                |               |
| MS20667-2  | 1/16                   | 0.01           | .500           | .344  | .160           | .138          | .190 | +.002<br>-.000 | .093    | .218             | 1.572          | 1.750         |
| MS20667-3  | 3/32                   | 0.02           | .670           | .438  | .218           | .190          | .190 | +.002<br>-.000 | .108    | .254             | 1.945          | 2.062         |
| MS20667-4  | 1/8                    | 0.03           | .735           | .547  | .250           | .219          | .190 | +.002<br>-.000 | .195    | .383             | 2.352          | 2.608         |
| MS20667-5  | 5/32                   | 0.05           | .800           | .688  | .297           | .250          | .250 | +.002<br>-.000 | .202    | .406             | 2.655          | 3.000         |
| MS20667-6  | 3/16                   | 0.09           | .880           | .781  | .359           | .313          | .313 | +.002<br>-.000 | .260    | .543             | 3.071          | 3.239         |
| MS20667-7  | 7/32                   | 0.15           | .970           | .906  | .427           | .375          | .313 | +.002<br>-.000 | .296    | .625             | 3.440          | 3.736         |
| MS20667-8  | 1/4                    | 0.20           | 1.070          | .969  | .494           | .438          | .375 | +.002<br>-.000 | .313    | .688             | 3.806          | 4.105         |
| MS20667-9  | 9/32                   | 0.30           | 1.170          | 1.156 | .563           | .500          | .438 | +.002<br>-.000 | .327    | .719             | 4.120          | 4.479         |
| MS20667-10 | 5/16                   | 0.38           | 1.268          | 1.265 | .635           | .563          | .438 | +.002<br>-.000 | .348    | .765             | 4.438          | 4.860         |
| MS20667-12 | 3/8                    | 0.57           | 1.525          | 1.500 | .703           | .625          | .500 | +.005<br>-.000 | .380    | .830             | 5.333          | 5.746         |
| MS20667-14 | 7/16                   | 0.77           | 1.776          | 1.750 | .781           | .688          | .562 | +.005<br>-.000 | .380    | .830             | 6.402          | 6.575         |
| MS20667-16 | 1/2                    | 1.62           | 1.903          | 1.875 | .844           | .750          | .625 | +.005<br>-.000 | .473    | 1.035            | 6.938          | 7.50          |



**Aircraft Eye Fitting MS20668**  
(Stainless Steel)

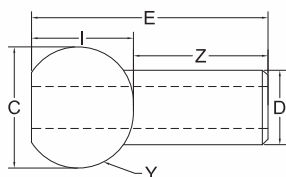
| Code       | For Cable Diameter in. | Weight ea. lbs | Dimensions in. |       |                |               |      |                |      |                |                |               |
|------------|------------------------|----------------|----------------|-------|----------------|---------------|------|----------------|------|----------------|----------------|---------------|
|            |                        |                | A ±.020        | C     | D Before Swage | D After swage | G    |                | T    |                | X Before swage | X After swage |
|            |                        |                |                |       |                |               | Dia. | Tol.           | Dia. | Tol.           |                |               |
| MS20668-2  | 1/16                   | 0.01           | .523           | .359  | .160           | .138          | .190 | +.002<br>-.000 | .088 | +.000<br>-.005 | 1.631          | 1.809         |
| MS20668-3  | 3/32                   | 0.02           | .707           | .438  | .218           | .190          | .190 | +.002<br>-.000 | .103 | +.000<br>-.005 | 2.049          | 2.160         |
| MS20668-4  | 1/8                    | 0.03           | .738           | .500  | .250           | .219          | .190 | +.002<br>-.000 | .190 | +.000<br>-.005 | 2.337          | 2.593         |
| MS20668-5  | 5/32                   | 0.05           | .831           | .640  | .297           | .250          | .250 | +.002<br>-.000 | .197 | +.000<br>-.005 | 2.684          | 3.029         |
| MS20668-6  | 3/16                   | 0.09           | .903           | .781  | .359           | .313          | .313 | +.002<br>-.000 | .255 | +.000<br>-.005 | 3.019          | 3.187         |
| MS20668-7  | 7/32                   | 0.13           | 1.007          | .813  | .427           | .375          | .313 | +.002<br>-.000 | .291 | +.000<br>-.005 | 3.382          | 3.678         |
| MS20668-8  | 1/4                    | 0.20           | 1.133          | .968  | .494           | .438          | .375 | +.002<br>-.000 | .307 | +.000<br>-.005 | 3.763          | 4.062         |
| MS20668-9  | 9/32                   | 0.25           | 1.257          | 1.109 | .563           | .500          | .438 | +.002<br>-.000 | .322 | +.000<br>-.005 | 4.153          | 4.512         |
| MS20668-10 | 5/16                   | 0.40           | 1.373          | 1.218 | .635           | .563          | .438 | +.002<br>-.000 | .343 | +.000<br>-.005 | 4.546          | 4.969         |
| MS20668-12 | 3/8                    | 0.57           | 1.688          | 1.500 | .703           | .625          | .500 | +.005<br>-.000 | .375 | +.000<br>-.015 | 5.562          | 5.968         |
| MS20668-14 | 7/16                   | 0.79           | 1.968          | 1.750 | .781           | .688          | .562 | +.005<br>-.000 | .375 | +.000<br>-.015 | 6.398          | 6.867         |
| MS20668-16 | 1/2                    | 1.05           | 2.115          | 1.875 | .844           | .750          | .625 | +.005<br>-.000 | .468 | +.000<br>-.015 | 7.323          | 7.886         |





### Ball Fitting (Stainless Steel)

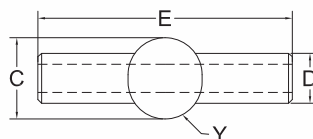
| Code  | For cable diameter in. | Min. Breaking Strength lbs. | Weight / ea. lbs. | Dimensions in. |      |               |                |      |
|-------|------------------------|-----------------------------|-------------------|----------------|------|---------------|----------------|------|
|       |                        |                             |                   | E Before swage |      | E After swage | T Before swage |      |
|       |                        |                             |                   | Max            | Min  |               | Max            | Min  |
| BA3-1 | 3/64                   | 215                         | 0.002             | .211           | .208 | .188          | .141           | .137 |
| BA3-2 | 1/16                   | 385                         | 0.0017            | .211           | .208 | .188          | .141           | .137 |
| BA3-3 | 3/32                   | 735                         | 0.004             | .288           | .284 | .250          | .174           | .170 |
| BA3-4 | 1/8                    | 1,200                       | 0.006             | .355           | .351 | .313          | .190           | .184 |
| BA3-5 | 5/32                   | 1,680                       | 0.009             | .429           | .425 | .375          | .227           | .222 |
| BA3-6 | 3/16                   | 2,520                       | 0.010             | .498           | .493 | .438          | .264           | .259 |



### Shank Ball MS20664 (Stainless Steel)

| Code<br>Cor. Res. Steel | Nom. Cable Diameter in. | Weight / ea. lbs. | Dimensions in. |               |                |               |       |       |             |               |
|-------------------------|-------------------------|-------------------|----------------|---------------|----------------|---------------|-------|-------|-------------|---------------|
|                         |                         |                   | C Before swage | C After swage | D Before swage | D After swage | E     | I     | Y Max. Rad. | Z After swage |
| MS20664-C2              | 1/16                    | .0019             | .212           | .190          | .132           | .112          | .2685 | .114  | .014        | .156          |
| MS20664-C3              | 3/32                    | .005              | .282           | .253          | .168           | .143          | .384  | .152  | .019        | .234          |
| MS20664-C4              | 1/8                     | .0075             | .350           | .315          | .223           | .190          | .500  | .1895 | .023        | .313          |
| MS20664-C5              | 5/32                    | .010              | .424           | .379          | .259           | .222          | .616  | .2275 | .028        | .391          |
| MS20664-C6              | 3/16                    | .015              | .492           | .442          | .298           | .255          | .730  | .2645 | .033        | .469          |
| MS20664-C7              | 7/32                    | .025              | .560           | .505          | .352           | .302          | .846  | .3025 | .038        | .547          |
| MS20664-C8              | 1/4                     | .030              | .629           | .567          | .406           | .348          | .962  | .3395 | .042        | .625          |
| MS20664-C9              | 9/32                    | .050              | .699           | .632          | .444           | .382          | 1.078 | .3775 | .046        | .750          |
| MS20664-C10             | 5/16                    | .066              | .768           | .694          | .480           | .413          | 1.193 | .4145 | .046        | .813          |

\*Breaking strength : will break cable



### Double Shank Ball MS20663 (Stainless Steel)

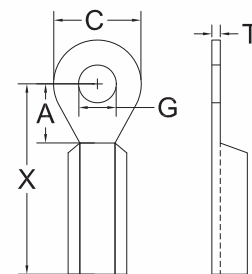
| Code<br>Cor. Res. Steel | Nom. Cable Diameter in. | Weight / ea. lbs. | Dimensions in. |               |                |               |                |               |             |
|-------------------------|-------------------------|-------------------|----------------|---------------|----------------|---------------|----------------|---------------|-------------|
|                         |                         |                   | C Before swage | C After swage | D Before swage | D After swage | E Before swage | E After swage | Y Max. Rad. |
| MS20663-C2              | 1/16                    | .0016             | .207           | .190          | .127           | .112          | .362           | .390          | .014        |
| MS20663-C3              | 3/32                    | .0032             | .277           | .253          | .163           | .143          | .525           | .578          | .019        |
| MS20663-C4              | 1/8                     | .0094             | .345           | .315          | .218           | .190          | .688           | .765          | .023        |
| MS20663-C5              | 5/32                    | .0125             | .419           | .379          | .254           | .222          | .850           | .953          | .028        |
| MS20663-C6              | 3/16                    | .025              | .487           | .442          | .293           | .255          | 1.012          | 1.140         | .033        |
| MS20663-C7              | 7/32                    | .032              | .555           | .505          | .347           | .302          | 1.175          | 1.328         | .038        |
| MS20663-C8              | 1/4                     | .040              | .624           | .567          | .401           | .348          | 1.337          | 1.515         | .042        |
| MS20663-C9              | 9/32                    | .042              | .694           | .632          | .439           | .382          | 1.497          | 1.719         | .046        |
| MS20663-C10             | 5/16                    | .043              | .763           | .694          | .475           | .413          | 1.664          | 1.880         | .046        |

\*Breaking strength : will break cable



### Stamped Eyelets (Stainless Steel or Zinc Plated)

| Code       |             | For Cable Diameter in. | Material Type | Weight Approx. per 100 Pcs. lbs | Dimensions in. |      |      |      |      |
|------------|-------------|------------------------|---------------|---------------------------------|----------------|------|------|------|------|
| Ben-Mor    | Continental |                        |               |                                 | A              | C    | G    | T    | X    |
| BMSEZ-364a | 2083-01.5   | 3/64                   | Z.P.          | .38                             | .315           | .320 | .160 | .060 | .715 |
| BMSES-364a | 2081-01.5   | 3/64                   | S.S.          | .38                             | .315           | .320 | .160 | .060 | .715 |
| BMSEZ-364b | 2023-01.5   | 3/64                   | Z.P.          | .35                             | .315           | .320 | .190 | .060 | .715 |
| BMSES-364c | 2023-01.5   | 3/64                   | Z.P.          | .33                             | .315           | .320 | .190 | .050 | .715 |
| BMSES-364b | 2021-01.5   | 3/64                   | S.S.          | .35                             | .315           | .320 | .190 | .060 | .715 |
| n/a        | 2093-02*    | 1/16                   | Z.P.          | .25                             | .340           | .380 | .129 | .035 | .650 |
| n/a        | 2091-02*    | 1/16                   | S.S.          | .25                             | .340           | .380 | .129 | .035 | .650 |
| n/a        | 2103-02*    | 1/16                   | Z.P.          | .24                             | .340           | .380 | .194 | .035 | .650 |
| n/a        | 2101-02*    | 1/16                   | S.S.          | .24                             | .340           | .380 | .194 | .035 | .650 |
| BMSEZ-116c | 2313-02     | 1/16                   | Z.P.          | .74                             | .400           | .460 | .129 | .060 | .978 |
| BMSEZ-116d | 2003-02     | 1/16                   | Z.P.          | .69                             | .320           | .430 | .190 | .060 | .940 |
| BMSES-116d | 2001-02     | 1/16                   | S.S.          | .69                             | .320           | .430 | .190 | .060 | .940 |
| BMSEZ-116e | 2013-02     | 1/16                   | Z.P.          | .63                             | .320           | .430 | .260 | .060 | .940 |
| BMSES-116e | 2011-02     | 1/16                   | S.S.          | .63                             | .320           | .430 | .260 | .060 | .940 |
| BMSEZ-116f | 2173-02     | 1/16                   | Z.P.          | .65                             | .400           | .460 | .204 | .060 | .978 |
| BMSES-116f | 2171-02     | 1/16                   | S.S.          | .65                             | .400           | .460 | .204 | .060 | .978 |
| BMSEZ-332a | 2303-03     | 3/32                   | Z.P.          | 1.92                            | .470           | .500 | .205 | .093 | 1.42 |
| BMSES-332a | 2301-03     | 3/32                   | S.S.          | 1.92                            | .470           | .500 | .205 | .093 | 1.42 |
| BMSEZ-332b | 2343-03     | 3/32                   | Z.P.          | 1.88                            | .470           | .500 | .250 | .093 | 1.42 |
| BMSES-332b | 2341-03     | 3/32                   | S.S.          | 1.88                            | .470           | .500 | .250 | .093 | 1.42 |
| BMSEZ-332c | 2323-03     | 3/32                   | Z.P.          | 2.04                            | .450           | .750 | .375 | .093 | 1.31 |
| BMSES-332c | 2321-03     | 3/32                   | S.S.          | 2.04                            | .450           | .750 | .375 | .093 | 1.31 |
| BMSEZ-332d | 2333-03     | 3/32                   | Z.P.          | 1.81                            | .450           | .750 | .500 | .093 | 1.31 |
| BMSES-332d | 2331-03     | 3/32                   | S.S.          | 1.81                            | .450           | .750 | .500 | .093 | 1.31 |
| BMSEZ-018a | 2403-04**   | 1/8                    | Z.P.          | 4.66                            | .480           | .580 | .250 | .125 | 1.95 |
| BMSES-018a | 2401-04**   | 1/8                    | S.S.          | 4.66                            | .480           | .580 | .250 | .125 | 1.95 |
| BMSEZ-018b | 2413-04**   | 1/8                    | Z.P.          | 4.64                            | .480           | .580 | .316 | .125 | 1.95 |
| BMSES-018b | 2411-04**   | 1/8                    | S.S.          | 4.64                            | .480           | .580 | .316 | .125 | 1.95 |
| BMSEZ-018c | 2423-04     | 1/8                    | Z.P.          | 4.92                            | .540           | .850 | .375 | .125 | 1.84 |
| BMSES-018c | 2421-04     | 1/8                    | S.S.          | 4.92                            | .540           | .850 | .375 | .125 | 1.84 |
| BMSEZ-018d | 2433-04     | 1/8                    | Z.P.          | 4.56                            | .540           | .850 | .500 | .125 | 1.84 |
| BMSES-018d | 2431-04     | 1/8                    | S.S.          | 4.56                            | .540           | .850 | .500 | .125 | 1.84 |



Before Swage

Eyelet part #2303-03 swaged with a GBG 50 Ton Hydraulic swager onto 3/32" 7 x 7 cable.

\*2093-02, 2091-02, 2103-02, & 2101-02 holds 250 lbs. max. without distortion to eyelet.

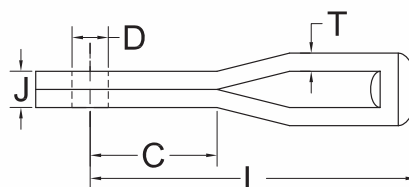
\*\*2403-04, 2401-04, 2413-04, & 2411-04 holds 1600 lbs. max.

General Notes:  
Stamped eyelets must be assembled with a mechanical or hydraulic swager using properly designed dies.

A pull test should be performed to determine the holding strength of the applied eye, and suitability for your application.

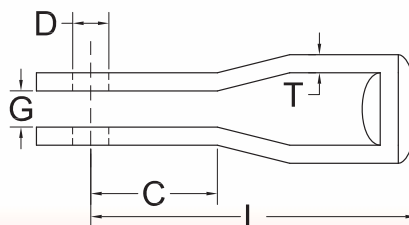
### Stainless Strap Eye with markings

| Code       | Diameter in. | Dimensions in. |      |      |         |      |
|------------|--------------|----------------|------|------|---------|------|
|            |              | C              | D    | J    | L       | T    |
| NAS1435-E2 | 1/16         | .454           | .188 | .088 | 1 1/16  | .042 |
| NAS1435-E3 | 3/32         | .616           | .188 | .103 | 1 1/2   | .049 |
| NAS1435-E4 | 1/8          | .638           | .188 | .190 | 1 5/8   | .093 |
| NAS1435-E5 | 5/32         | .699           | .250 | .197 | 1 15/16 | .096 |
| NAS1435-E6 | 3/16         | .750           | .313 | .255 | 2 3/16  | .125 |



### Stainless Strap Fork with markings

| Code       | Diameter in. | Dimensions in. |      |      |         |      |
|------------|--------------|----------------|------|------|---------|------|
|            |              | C              | D    | G    | L       | T    |
| NAS1435-K2 | 1/16         | .454           | .188 | .093 | 1 1/16  | .042 |
| NAS1435-K3 | 3/32         | .616           | .188 | .108 | 1 1/2   | .049 |
| NAS1435-K4 | 1/8          | .638           | .188 | .195 | 1 5/8   | .093 |
| NAS1435-K5 | 5/32         | .699           | .250 | .202 | 1 15/16 | .096 |
| NAS1435-K6 | 3/16         | .750           | .313 | .260 | 2 3/16  | .125 |





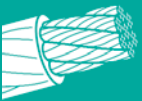


# Coated Cables



Our Extruders are equipped with laser monitors that constantly measure every centimeter of the coated cable.

These machines insure the highest quality control over the outside diameter of the coatings during production.



## Coated Cable

| Cable /<br>Nominal diameter<br>in | Outside /<br>Coating diameter<br>in. | Approx. Weight<br>per 100 ft.<br>lbs. |
|-----------------------------------|--------------------------------------|---------------------------------------|
| 1/32                              | 3/64                                 | 0.25                                  |
| 3/64                              | 1/16                                 | 0.60                                  |
| 1/16                              | 3/32                                 | 0.95                                  |
| 1/16                              | 1/8                                  | 1.00                                  |
| 3/32                              | 1/8                                  | 2.20                                  |
| 3/32                              | 5/32                                 | 2.60                                  |
| 3/32                              | 3/16                                 | 2.90                                  |
| 1/8                               | 5/32                                 | 4.05                                  |
| 1/8                               | 3/16                                 | 4.65                                  |
| 1/8                               | 1/4                                  | 5.05                                  |
| 5/32                              | 3/16                                 | 5.40                                  |
| 5/32                              | 7/32                                 | 5.50                                  |
| 3/16                              | 7/32                                 | 6.80                                  |
| 3/16                              | 1/4                                  | 7.90                                  |
| 3/16                              | 5/16                                 | 10.25                                 |
| 1/4                               | 5/16                                 | 12.50                                 |
| 5/16                              | 3/8                                  | 19.75                                 |
| 5/16                              | 7/16                                 | 21.95                                 |
| 3/8                               | 7/16                                 | 28.20                                 |
| 3/8                               | 1/2                                  | 30.50                                 |
| 3/8                               | 9/16                                 | 33.20                                 |
| 7/16                              | 1/2                                  | 37.50                                 |
| 7/16                              | 9/16                                 | 40.20                                 |
| 1/2                               | 9/16                                 | 48.75                                 |
| 1/2                               | 5/8                                  | 52.00                                 |
| 1/2                               | 11/16                                | 55.10                                 |
| 5/8                               | 11/16                                | 75.40                                 |
| 5/8                               | 3/4                                  | 79.10                                 |
| 5/8                               | 7/8                                  | 87.30                                 |
| 3/4                               | 7/8                                  | 112.20                                |
| 3/4                               | 1                                    | 122.00                                |
| 1                                 | 1 1/8                                | 197.50                                |
| 1                                 | 1 1/4                                | 217.00                                |
| 1 1/8                             | 1 1/4                                | 266.00                                |
| 1 1/4                             | 1 3/8                                | 316.00                                |
| 1 1/4                             | 1 1/2                                | 356.00                                |

- Miniature cable available on request (smaller than 1/32")
- Galvanized, stainless steel 304 and 316 cable available.

- Nylon 6 (standard)
- Nylon 11 (high performance)
- Vinyl, urethane
- Polypropylene
- Polyester (Hytrel)



We have engineered our own mixes to offer you superior quality colors.

Hooked on SERVICE





### Polyvinyl Chloride “Vinyl or PVC”:

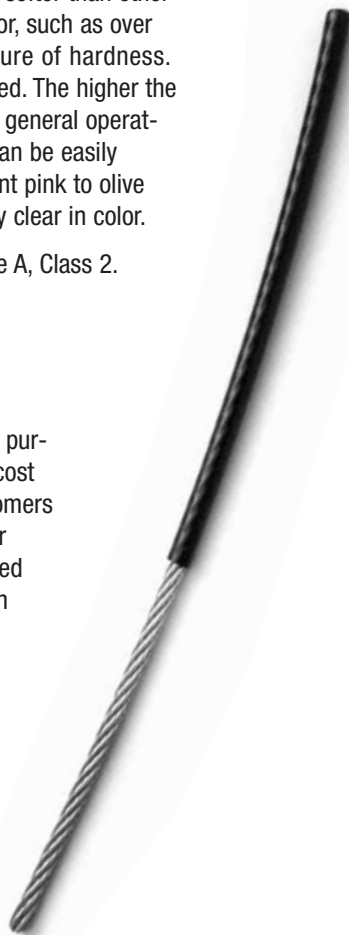
Vinyl is soft, flexible, and economical. It is the most common plastic extruded over steel cable. It offers good weathering resistance and outstanding resistance to ultra violet rays of the sun which degrades many plastics over time. Vinyl has good resistance to water and some resistance to acids and alkalies. Since it is softer than other plastics, vinyl is not always the best choice when abrasion is a factor, such as over pulleys. Vinyl grades are defined by the durometer which is a measure of hardness. For cable extrusion an 80 to 90 durometer vinyl is commonly used. The higher the durometer the harder the PVC. Under normal conditions, vinyl has a general operating temperature range of -30°F (-35°C) to +180°F (+80°C). Color can be easily added to vinyl to achieve almost any shade desired. From fluorescent pink to olive green, we can match a color to suit your needs. Natural vinyl is very clear in color.

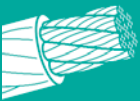
Vinyl complies with Military Specification 631, Type F, Form U, Grade A, Class 2.

### Nylons:

Nylon Type 6 : We like to think of Type 6 grade nylon as our “general purpose” nylon. This type is suitable for most applications and is very cost efficient. We work closely with our nylon suppliers to offer our customers a nylon that is hard and durable but also one that is easy to strip for assembling cable fittings. In most cases, a plasticizer has been added to these two types to reduce the stiffness in the nylon. Type 6 nylon offers good resistance to abrasion and most chemicals. This nylon has a general operating temperature range of -40°F (-40°C) to +200°F (+95°C). U.V. inhibitors can be added to nylon to aid in the resistance of sunlight degradation. Natural Type 6 nylon is clear to milky white transparent in color. Color concentrates can be added.

Nylon Type 11: We provide a Type 11 nylon which meets the requirements of MIL-DTL-83420. This durable, high quality nylon offers good abrasion resistance when operated over pulleys. It provides good resistance to chemicals. This nylon has a wider operating temperature range of -65°F (-54°C) to +230°F (+110°C) and reacts well in severe cold temperatures. Natural Type 11 nylon is clear transparent in color. Color concentrates can be added.





## Other Plastics

**Polyether Block Amide (Pebax):** This high quality plastic is flexible yet very durable and runs easily over pulleys with good abrasion resistance. This plastic can withstand extremely cold temperatures and still remain flexible. It has a general operating temperature range of -66°F to +150°F. In addition to extrusion over steel cable, Pebax plastic is also used to produce such products as golf balls and ski boots. Pebax is offered in natural or black color. Color concentrates can be added.

**Polypropylene:** A lightweight, reasonably priced plastic sometimes used in place of vinyl. It has good water and abrasion resistance and is very flexible. Its operating temperature range is narrower than vinyl and it is not recommended for application in cold temperatures below 0°F. Ultraviolet rays of the sun will degrade polypropylene faster than other plastics.

**Polyethylene:** Available in high and low density. Polyethylene offers good resistance to a wide range of chemicals and is unaffected by water. We offer a low density polyethylene with excellent environmental stress cracking resistance, outdoor weatherability, and toughness. Offered mainly in natural or black color.

**Urethane, Polyester, and Hytrel:** Also plastics that we extrude.

There are many plastics available for extrusion onto steel cable. We have used numerous grades and brands when specified by a customer or for a particular purpose. Please call our sales department to discuss your needs.

### TOLERANCES

Standard outside diameter tolerances for plastic coated cables.

| O.D. of Jacket        | Standard Tolerance |
|-----------------------|--------------------|
| .126" to .250" (1/4") | +/- .007"          |
| .251" to .375" (3/8") | +/- .010"          |
| .376" to .500" (1/2") | +/- .015"          |
| .501" to .750" (3/4") | +/- .034"          |

### WARNING

Applying fittings over a plastic jacket is not recommended. Any fitting pressed or swaged over a plastic jacket will not hold to the nominal break strength of the cable.

### CUSTOMER SUPPLIED MATERIAL

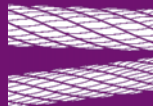
We offer a coating service for your cable - subject to certain conditions.

1. The cable must be dry - oil free.
2. No protruding or broken wires.
3. No obvious defects (such as high or uneven strands).
4. Cable must be evenly wound (thread lay) on the reels.

We have the right to refuse to coat your cable if in our opinion we cannot produce a satisfactory finished product, or we determine that the cable may cause damage to our extruders.

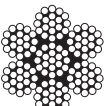


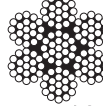




# Cables & Wire Rope

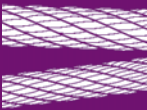
## Aircraft Cable and Preformed Strand

| Galvanized                                                                                    |           |              |                                |                        |
|-----------------------------------------------------------------------------------------------|-----------|--------------|--------------------------------|------------------------|
| Construction                                                                                  | Code      | Diameter in. | Minimum Breaking Strength lbs. | Weight per 100 ft lbs. |
| Soft guy wire                                                                                 | 11617S0FT | 1/16         | 100                            | 0.85                   |
|                                                                                               | 56417S0FT | 5/64         | 150                            | 1.4                    |
|                                                                                               | 33217S0FT | 3/32         | 250                            | 2.0                    |
|                                                                                               | 01817S0FT | 1/8          | 520                            | 3.3                    |
|                                                                                               | 31617S0FT | 3/16         | 1150                           | 3.8                    |
| <br>1 x 7    | 16417G    | 1/64         | 40                             | 0.055                  |
|                                                                                               | 13217G    | 1/32         | 185                            | 0.23                   |
|                                                                                               | 36417G    | 3/64         | 375                            | 0.55                   |
|                                                                                               | 11617G    | 1/16         | 500                            | 0.85                   |
|                                                                                               | 56417G    | 5/64         | 800                            | 1.4                    |
|                                                                                               | 33217G    | 3/32         | 1,200                          | 2.0                    |
|                                                                                               | 01817G    | 1/8          | 2,100                          | 3.5                    |
|                                                                                               | 01417GEHS | 1/4          | 6,650                          | 13.7                   |
|                                                                                               | 03817GEHS | 3/8          | 15,400                         | 24.3                   |
|                                                                                               | 71617GEHS | 7/16         | 20,800                         | 39.0                   |
|                                                                                               | 01217GEHS | 1/2          | 26,900                         | 52.0                   |
|                                                                                               | 91617GEHS | 9/16         | 35,000                         | 67.0                   |
|                                                                                               | 05817GEHS | 5/8          | 42,400                         | 80.0                   |
|                                                                                               | 364119G   | 3/64         | 375                            | 0.55                   |
| <br>1 x 19  | 116119G   | 1/16         | 500                            | 0.85                   |
|                                                                                               | 564119G   | 5/64         | 800                            | 1.4                    |
|                                                                                               | 332119G   | 3/32         | 1,200                          | 2.0                    |
|                                                                                               | 018119G   | 1/8          | 2,100                          | 3.3                    |
|                                                                                               | 532119G   | 5/32         | 3,300                          | 5.5                    |
|                                                                                               | 316119G   | 3/16         | 4,700                          | 7.7                    |
|                                                                                               | 014119G   | 1/4          | 8,200                          | 13.5                   |
|                                                                                               | 516119G   | 5/16         | 12,500                         | 21.0                   |
|                                                                                               | 038119G   | 3/8          | 17,500                         | 30.1                   |
| <br>7 x 7  | 36477G    | 3/64         | 270                            | 0.42                   |
|                                                                                               | 11677G    | 1/16         | 480                            | 0.75                   |
|                                                                                               | 56477G    | 5/64         | 650                            | 1.1                    |
|                                                                                               | 33277G    | 3/32         | 920                            | 1.6                    |
|                                                                                               | 01877G    | 1/8          | 1,700                          | 2.85                   |
|                                                                                               | 53277G    | 5/32         | 2,600                          | 4.3                    |
|                                                                                               | 31677G    | 3/16         | 3,700                          | 6.2                    |
|                                                                                               | 01477G    | 1/4          | 6,100                          | 10.6                   |
|                                                                                               | 51677G    | 5/16         | 9,200                          | 16.7                   |
| <br>7 x 19 | 03877G    | 3/8          | 13,300                         | 23.6                   |
|                                                                                               | 116719G   | 1/16         | 480                            | 0.75                   |
|                                                                                               | 332719G   | 3/32         | 1,000                          | 1.6                    |
|                                                                                               | 018719G   | 1/8          | 2,000                          | 2.9                    |
|                                                                                               | 532719G   | 5/32         | 2,800                          | 4.5                    |
|                                                                                               | 316719G   | 3/16         | 4,200                          | 6.5                    |
|                                                                                               | 732719G   | 7/32         | 5,600                          | 8.6                    |
|                                                                                               | 014719G   | 1/4          | 7,000                          | 11.0                   |
|                                                                                               | 516719G   | 5/16         | 9,800                          | 17.3                   |
|                                                                                               | 038719G   | 3/8          | 14,400                         | 24.3                   |

| Black Oxide                                                                                 |           |              |                                |                        |
|---------------------------------------------------------------------------------------------|-----------|--------------|--------------------------------|------------------------|
| Construction                                                                                | Code      | Diameter in. | Minimum Breaking Strength lbs. | Weight per 100 ft lbs. |
| <br>7 x 7  | 11677BLO  | 1/16         | 480                            | 0.75                   |
| <br>7 x 19 | 018719BLO | 1/8          | 2,000                          | 2.9                    |
|                                                                                             | 316719BLO | 3/16         | 4,200                          | 6.5                    |

Black oxide : Gives galvanized cable a black matte finish





### Stainless Steel

### Stainless Steel 304

| Construction                                                                                  | Code     | Diameter in. | Minimum Breaking strength lbs. | Weight per 100 ft lbs. |
|-----------------------------------------------------------------------------------------------|----------|--------------|--------------------------------|------------------------|
| <br>1 x 7    | 16417S4  | 1/64         | 40                             | 0.055                  |
|                                                                                               | 13217S4  | 1/32         | 185                            | 0.23                   |
|                                                                                               | 36417S4  | 3/64         | 375                            | 0.55                   |
|                                                                                               | 11617S4  | 1/16         | 500                            | 0.85                   |
|                                                                                               | 56417S4  | 5/64         | 800                            | 1.4                    |
|                                                                                               | 33217S4  | 3/32         | 1,200                          | 2.0                    |
|                                                                                               | 01817S4  | 1/8          | 2,100                          | 3.5                    |
|                                                                                               | 31617S4  | 3/16         | 4,700                          | 7.3                    |
|                                                                                               | 01417S4  | 1/4          | 8,500                          | 13.7                   |
|                                                                                               | 03817S4  | 3/8          | 18,000                         | 24.3                   |
| <br>1 x 19   | 01217S4  | 1/2          | 33,700                         | 52.0                   |
|                                                                                               | 364119S4 | 3/64         | 375                            | 0.55                   |
|                                                                                               | 116119S4 | 1/16         | 500                            | 0.85                   |
|                                                                                               | 564119S4 | 5/64         | 800                            | 1.4                    |
|                                                                                               | 332119S4 | 3/32         | 1,200                          | 2.0                    |
|                                                                                               | 018119S4 | 1/8          | 2,100                          | 3.3                    |
|                                                                                               | 532119S4 | 5/32         | 3,300                          | 5.5                    |
|                                                                                               | 316119S4 | 3/16         | 4,700                          | 7.7                    |
|                                                                                               | 014119S4 | 1/4          | 8,200                          | 13.5                   |
|                                                                                               | 516119S4 | 5/16         | 12,500                         | 21.0                   |
| <br>7 x 7  | 038119S4 | 3/8          | 17,500                         | 30.1                   |
|                                                                                               | 012119S4 | 1/2          | 30,000                         | 52.0                   |
|                                                                                               | 13277S4  | 1/32         | 90                             | 0.16                   |
|                                                                                               | 36477S4  | 3/64         | 270                            | 0.42                   |
|                                                                                               | 11677S4  | 1/16         | 480                            | 0.75                   |
|                                                                                               | 56477S4  | 5/64         | 650                            | 1.1                    |
|                                                                                               | 33277S4  | 3/32         | 920                            | 1.6                    |
|                                                                                               | 01877S4  | 1/8          | 1,700                          | 2.85                   |
|                                                                                               | 53277S4  | 5/32         | 2,400                          | 4.3                    |
|                                                                                               | 31677S4  | 3/16         | 3,700                          | 6.2                    |
| <br>7 x 19 | 01477S4  | 1/4          | 6,100                          | 10.6                   |
|                                                                                               | 51677S4  | 5/16         | 9,000                          | 16.7                   |
|                                                                                               | 03877S4  | 3/8          | 12,000                         | 23.6                   |
|                                                                                               | 01277S4  | 1/2          | 23,300                         | 44.0                   |
|                                                                                               | 116719S4 | 1/16         | 480                            | 0.75                   |
|                                                                                               | 332719S4 | 3/32         | 920                            | 1.6                    |
|                                                                                               | 018719S4 | 1/8          | 1,760                          | 2.9                    |
|                                                                                               | 532719S4 | 5/32         | 2,400                          | 4.5                    |
|                                                                                               | 316719S4 | 3/16         | 3,700                          | 6.5                    |
|                                                                                               | 732719S4 | 7/32         | 5,000                          | 8.6                    |
|                                                                                               | 014719S4 | 1/4          | 6,400                          | 11.0                   |
|                                                                                               | 516719S4 | 5/16         | 9,000                          | 17.3                   |
|                                                                                               | 038719S4 | 3/8          | 12,000                         | 24.3                   |
|                                                                                               |          |              |                                |                        |

**Type 304** stainless steel is the standard alloy for use in wire rope and cable. It has about the same strength as galvanized rope or cable but is much more corrosion resistant. It can be used in most industrial atmospheres and has acceptable corrosion resistance when used in marine and salt water.

### Stainless Steel

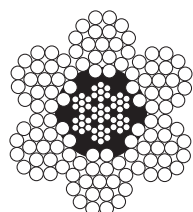
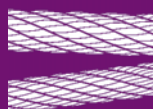
### Stainless Steel 316

| Construction                                                                                 | Code     | Diameter in. | Minimum Breaking strength lbs. | Weight per 100 ft lbs. |
|----------------------------------------------------------------------------------------------|----------|--------------|--------------------------------|------------------------|
| <br>1 x 7   | 01417S6  | 1/4          | 7,650                          | 13.7                   |
|                                                                                              | 03817S6  | 3/8          | 16,200                         | 24.3                   |
|                                                                                              | 01217S6  | 1/2          | 30,200                         | 52.0                   |
| <br>1 x 19  | 116119S6 | 1/16         | 467                            | 0.85                   |
|                                                                                              | 018119S6 | 1/8          | 1,780                          | 3.3                    |
|                                                                                              | 532119S6 | 5/32         | 2,800                          | 5.5                    |
|                                                                                              | 316119S6 | 3/16         | 4,000                          | 7.7                    |
|                                                                                              | 014119S6 | 1/4          | 6,900                          | 13.5                   |
|                                                                                              | 516119S6 | 5/16         | 10,600                         | 21.0                   |
|                                                                                              | 038119S6 | 3/8          | 14,800                         | 30.1                   |
| <br>7 x 7   | 012119S6 | 1/2          | 27,000                         | 52.0                   |
|                                                                                              | 11677S6  | 1/16         | 360                            | 0.75                   |
|                                                                                              | 33277S6  | 3/32         | 700                            | 1.6                    |
|                                                                                              | 01877S6  | 1/8          | 1,360                          | 2.85                   |
|                                                                                              | 31677S6  | 3/16         | 2,875                          | 6.2                    |
| <br>7 x 19 | 51677S6  | 5/16         | 7,600                          | 16.7                   |
|                                                                                              | 332719S6 | 3/32         | 700                            | 1.6                    |
|                                                                                              | 018719S6 | 1/8          | 1,300                          | 2.9                    |
|                                                                                              | 532719S6 | 5/32         | 2,000                          | 4.5                    |
|                                                                                              | 316719S6 | 3/16         | 2,900                          | 6.5                    |
|                                                                                              | 014719S6 | 1/4          | 4,900                          | 11.0                   |
|                                                                                              | 516719S6 | 5/16         | 7,600                          | 17.3                   |
|                                                                                              | 038719S6 | 3/8          | 11,000                         | 24.3                   |

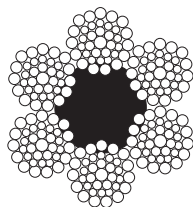
**Type 316** stainless steel is the standard high corrosion resistant steel for rope and cable. It is resistant to many chemicals in the pulp and paper, photographic, food processing and textile industries. It has the best pitting resistance in marine and salt water and can be used in temperatures up to 480°C (900°F).







6 x 19



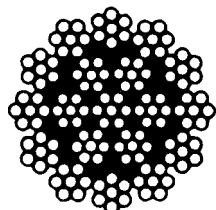
6 x 37

## 6 X 19/26, 6 X 36/37 Steel Core — Fiber Core

| Diameter<br>in. | Weight<br>approx./ 100 ft<br>lbs. | Minimum Breaking Strength — lbs |         |            |         |            |         |
|-----------------|-----------------------------------|---------------------------------|---------|------------|---------|------------|---------|
|                 |                                   | IPS                             |         |            |         | EIPS       |         |
|                 |                                   | Steel core                      |         | Fiber core |         | Steel core |         |
|                 |                                   | Galv.                           | Bright  | Galv.      | Bright  | Galv.      | Bright  |
| 1/4             | 12                                | 5,300                           | 5,880   | 4,940      | 5,480   | 6,120      | 6,800   |
| 5/16            | 18                                | 8,240                           | 9,160   | 7,660      | 8,520   | 9,480      | 10,540  |
| 3/8             | 26                                | 11,800                          | 13,120  | 10,980     | 12,200  | 13,600     | 15,100  |
| 7/16            | 35                                | 16,000                          | 17,780  | 14,880     | 16,540  | 18,360     | 20,400  |
| 1/2             | 46                                | 20,700                          | 23,000  | 19,260     | 21,400  | 24,000     | 26,600  |
| 9/16            | 59                                | 26,100                          | 29,000  | 24,300     | 27,000  | 30,200     | 33,600  |
| 5/8             | 72                                | 32,200                          | 35,800  | 30,000     | 33,400  | 37,000     | 41,200  |
| 3/4             | 104                               | 46,000                          | 51,200  | 42,800     | 47,600  | 53,000     | 58,800  |
| 7/8             | 142                               | 62,200                          | 69,200  | 58,000     | 64,400  | 71,600     | 79,600  |
| 1               | 185                               | 80,800                          | 89,800  | 75,200     | 83,600  | 93,000     | 103,400 |
| 1 1/8           | 234                               | 101,800                         | 113,000 | 94,600     | 105,200 | 117,000    | 130,000 |
| 1 1/4           | 289                               | 125,000                         | 138,800 | 116,200    | 129,200 | 143,800    | 159,800 |
| 1 3/8           | 350                               | 150,400                         | 167,000 | 139,800    | 155,400 | 172,800    | 192,000 |
| 1 1/2           | 416                               | 178,000                         | 197,800 | 165,600    | 184,000 | 206,000    | 228,000 |
| 1 3/4           | 567                               | 240,000                         | 266,000 | 224,000    | 248,000 | 276,000    | 306,000 |
| 2               | 739                               | 310,000                         | 344,000 | 288,000    | 320,000 | 356,000    | 396,000 |

Cable larger than 2" available on request.

## 19 X 7 Non-rotating

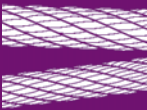


19 x 7

| Code    | Diameter<br>in. | Weight per 100 ft<br>lbs. | Minimum Breaking Strength<br>lbs. |        |
|---------|-----------------|---------------------------|-----------------------------------|--------|
|         |                 |                           | IPS                               | EIPS   |
| 316197B | 3/16            | 6.5                       | ---                               | 3,140  |
| 014197B | 1/4             | 11                        | 5,020                             | 5,460  |
| 516197B | 5/16            | 18                        | 7,800                             | 8,530  |
| 038197B | 3/8             | 25                        | 11,180                            | 12,300 |
| 716197B | 7/16            | 35                        | 15,160                            | 16,660 |
| 012197B | 1/2             | 45                        | 19,700                            | 21,600 |
| 916197B | 9/16            | 58                        | 24,800                            | 27,200 |
| 058197B | 5/8             | 71                        | 30,600                            | 33,600 |
| 034197B | 3/4             | 102                       | 43,600                            | 48,000 |
| 078197B | 7/8             | 139                       | 59,000                            | 65,000 |
| 001197B | 1               | 182                       | 76,600                            | 84,400 |

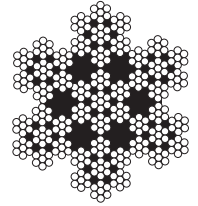


With a variety of hydraulic swagers and rotary swaging machines, we are capable of swaging 3/64" through 3 1/2" diameter fittings. With two teams of splicers on two shifts we manufacture and deliver exactly when needed.



### Cable Laid (Galvanized) 7 X 7 X 7

| Code    | Diameter in. | Minimum Breaking Strength lbs. | Weight per 100 ft lbs. |
|---------|--------------|--------------------------------|------------------------|
| 014777G | 1/4          | 4,900                          | 9                      |
| 516777G | 5/16         | 6,000                          | 13                     |
| 038777G | 3/8          | 10,400                         | 22                     |
| 012777G | 1/2          | 19,500                         | 35                     |
| 058777G | 5/8          | 29,200                         | 60                     |
| 034777G | 3/4          | 42,000                         | 88                     |
| 078777G | 7/8          | 56,000                         | 119                    |
| 001777G | 1            | 78,000                         | 156                    |

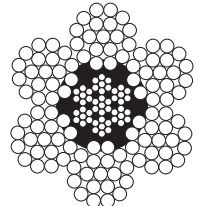


7 x 7 x 7

### 6 x 19/26 Stainless Steel



| Diameter in. | Weight per 100 ft lbs. | Minimum Breaking Strength lbs. |         |
|--------------|------------------------|--------------------------------|---------|
|              |                        | GR. 304                        | GR. 316 |
| 7/16         | 36                     | 16,300                         | 15,000  |
| 1/2          | 46                     | 22,800                         | 19,300  |
| 9/16         | 59                     | 28,500                         | 24,300  |
| 5/8          | 72                     | 35,000                         | 29,800  |
| 3/4          | 92                     | 49,600                         | 42,000  |
| 7/8          | 143                    | 66,500                         | 58,000  |
| 1            | 187                    | 85,400                         | 80,000  |

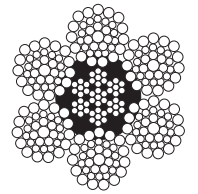


6 x 19

### 6 x 36/37 Stainless Steel



| Diameter in. | Weight per 100 ft lbs. | Minimum Breaking Strength lbs. |         |
|--------------|------------------------|--------------------------------|---------|
|              |                        | GR. 304                        | GR. 316 |
| 1/4          | 10                     | 5,400                          | 4,800   |
| 5/16         | 18                     | 8,300                          | 7,470   |
| 3/8          | 24                     | 11,700                         | 10,530  |
| 7/16         | 33                     | 15,800                         | 14,200  |
| 1/2          | 43                     | 20,400                         | 18,360  |
| 9/16         | 54                     | 25,600                         | 21,760  |
| 5/8          | 67                     | 31,400                         | 28,260  |
| 3/4          | 96                     | 44,400                         | 39,960  |
| 7/8          | 131                    | 59,700                         | 53,730  |
| 1            | 170                    | 77,300                         | 69,570  |



6 x 37

### 3 x 7 Swaged / Super Swaged

| Code     | Diameter in. | Minimum Breaking Strength lbs. | Weight per 100 ft lbs. |
|----------|--------------|--------------------------------|------------------------|
| 31637BS  | 3/16         | 4,000                          | 10                     |
| 31637BSS | 3/16         | 5,000                          | 10                     |
| 01437BSS | 1/4          | 7,000                          | 12                     |



### Armored Cable (tow target cable) 1 x 19

| Code        | Outside diameter in. | Inside diameter in. | Minimum Breaking Strength lbs. | Weight per 100 ft lbs. |
|-------------|----------------------|---------------------|--------------------------------|------------------------|
| 0181164119A | 11/64                | 1/8 galvanized      | 4,000                          | 8                      |





# Construction & Identification of Steel Wire Rope

Wire ropes are identified primarily by construction. The number of strands and the number and geometric arrangement of wires within the strands make up the wire rope construction.

The more common constructions are shown below. Note that each construction can have more wires than shown, but the geometry remains the same. For example, there can be two-operation ropes having more than 19 wires; there can be Seale ropes having more than 19 wires; there can be Warrington ropes having more than 19 wires and there can be Filler Wire types having more (or less) than 25 wires. Here are the basic constructions.

Each of the above possesses unique characteristics which must be considered when selecting rope or strand for a job. The specific geometric construction selected depends on the destructive factors present on the job.

## Wire Rope Construction

The most common factors, abrasion and fatigue, create conflicting requirements. Small (more numerous) outer wires resist fatigue but are easily worn through by abrasion. Larger outer wires have superior abrasion resistance but are more quickly broken by bending and flexing. The difference in outer wire size is seen between the 6 x 19 Seale and 6 x 25 Filler Wire constructions. The nine outer wires in the Seale strands are clearly larger than the 12 outer wires in the Filler Wire strands. Other destructive factors must be considered: peening, corrosion, heat, crushing, and shock loads.

## Classification

Each wire rope construction falls within a classification. Classifications are identified by the number of strands and nominal number of wires. The actual number of wires must fall within a range specified for the given class. For example, ropes within the 6 x 19 class contain 6 strands made up of 15 through 26 wires of which no more than 12 are outside wires. The 6 x 19 Seale and 6 x 25 Filler Wire constructions therefore are both within this class. The more common classifications are 6 x 7, 6 x 19, 6 x 37, 8 x 19, and 19 x 7.

## Core

The sole purpose of the core of a rope is to support the strands under normal bending and loading conditions. The three most common types are Fiber Core (FC), Independent Wire Rope Core (IWRC) and Wire Strand Core (WSC). The bottom row of constructions are shown with 7 x 7 IWRCs where the 6 x 19 2-operation and 6 x 19 Warrington constructions contain fiber cores. The 7 x 7 construction contains a 1 x 7 WSC and the 7 x 19 2-operation construction contains a 1 x 19 WSC. Almost all constructions can have either of the three types of core.

Natural or synthetic fiber rope cores can be used at loads up to about 25% of the nominal strength and at temperatures up to 200°F. At higher loads and temperatures, the strands will lose support and either a WSC or an IWRC must be used. Greater support is also needed for rope operating over small diameter sheaves and drums under heavy loads.

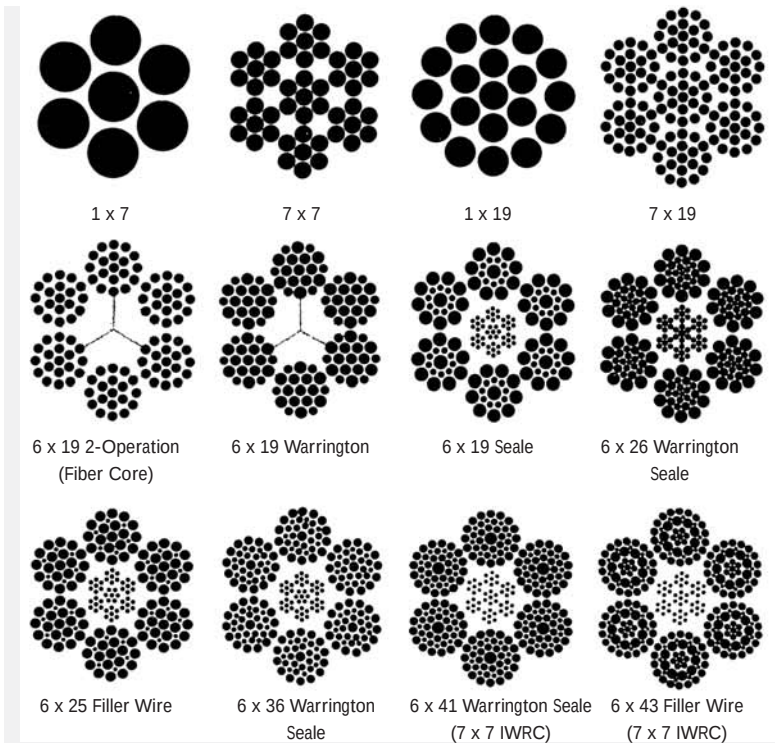
## Grade

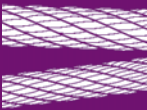
The grade of rope depends on the strength requirements of the job. Grades commonly used include: Traction Steel (TS), Improved Plow Steel (IPS), Extra Improved Plow Steel (EIP), and Double Extra Improved Plow Steel (EEIP). These grades are most often bright or uncoated but the wires may be galvanized (zinc coated). Wire galvanized at finished size is usually 10% lower in strength than bright wire, where drawn galvanized wire has the same strength. Other wire types commonly used include Galvanized Aircraft (GAC), and various grades of stainless steel and bronze.

## Lay

An important consideration in wire rope construction is the way the wires have been laid to form strands and the way the strands have been laid around the core.

Lay is classified by both direction and type. The lay direction of the wires within a strand and of the strands within a





rope is either left or right. Rope lay is further classified as either regular or lang. In a regular lay rope, the wires in the strands are laid in the opposite direction as the strands in the rope. In a lang lay rope, the wires in the strands are laid in the same direction as the strands in the rope.

Regular and lang lay ropes are easily identified by the appearance of the outer wires with respect to the rope axis as shown by the examples to the right.

Right regular and right lang are the most common types of lay in use. Each possesses unique characteristics important to proper selection. Wire rope can be manufactured with five types of lay.

Regular lay ropes are generally more stable and more resistant to crushing. Lang lay ropes are significantly superior in fatigue and abrasion resistance. However, lang lay ropes are more susceptible to crushing and require good winding conditions. They are also extremely prone to rotate under load; they must never be used unless both ends are restrained.

Alternate lay rope combines the best features of regular and lang lay ropes. It offers the advantages of both constructions while minimizing the disadvantages. This construction is ideal where high bending stresses (fatigue) are combined with high rope-to-sheave pressure (crushing); for example, as applied to boom hoist rope.

### Rotation Resistant Wire Ropes

Combinations of lays are sometimes employed to achieve rotation resistant properties. In this 19 x 7 rope, (as well as in 8 x 19 IWRC Rotation Resistant rope), the extreme rotational property of lang lay rope is used in the core to counteract the tendency of the outer regular lay strands to rotate in the opposite direction.

### Selection

Wire rope selection is a highly specialized art and science. Only extensive experience can qualify the selector to choose the proper rope for a specific application.

### Lubrication

Wire ropes are actually intricate machines comprised of many components which require lubrication. During manufacture, ropes receive lubrication; the kind and amount depend upon the rope size, type, and anticipated use. This lubrication protects against corrosion and enhances performance. It is not possible to permanently lubricate ropes. Most rope applications will require supplementary lubrication.

### Corrosion

A large number of wire ropes fail because of corrosion which may be either external, internal, or both. Normally corrosion takes place because of acid or alkaline atmosphere which is due to sea, air, industrial fumes or other conditions. In most cases corrosion cannot be completely eliminated but it can be resisted by cleaning and lubricating rope or by using galvanized ropes. In short, a rope which would have adequate resistance to corrosive factors should be selected. Though there would be a number of other factors which would influence the life of a rope, the above factors are generally important. In certain cases these properties are contradictory. For example, increasing the diameter of the outer wires of a rope increases resistance to abrasion, but decreases resistance to bending fatigue. It is, therefore, very important that the ultimate selection of rope must be a most acceptable compromise. Each of the desirable characteristics should be attained to the maximum degree possible without excessive sacrifice of the other required properties.



Right Regular Lay – Strands are laid to the right and wires appear in line with the rope.



Right Lang Lay – Strands are laid to the right but the wires appear to make an angle with the rope.



Left Regular Lay – Strands are laid to the left and wires appear in line with the rope.



Left Lang Lay – Strands are laid to the left but wires appear to make an angle with the rope.



Alternate Lay – Alternating right regular and right lang lay strands.







# Accessories

## Aluminum Duplex Sleeves (Hour glass shape)



| Code    | For cable diameter<br>in. | Weight / each approx.<br>lbs. |
|---------|---------------------------|-------------------------------|
| AOS-132 | 1/32                      | .0002                         |
| AOS-364 | 3/64                      | .001                          |
| AOS-116 | 1/16                      | .001                          |
| AOS-564 | 5/64                      | .002                          |
| AOS-332 | 3/32                      | .003                          |
| AOS-018 | 1/8                       | .006                          |
| AOS-532 | 5/32                      | .008                          |
| AOS-316 | 3/16                      | .016                          |
| AOS-732 | 7/32                      | .022                          |
| AOS-014 | 1/4                       | .025                          |
| AOS-516 | 5/16                      | .045                          |
| AOS-038 | 3/8                       | .061                          |
| AOS-716 | 7/16                      | .118                          |
| AOS-012 | 1/2                       | .176                          |

## Aluminum Oval Sleeves



| Code        | For cable diameter<br>in. | Weight / each approx.<br>lbs. |
|-------------|---------------------------|-------------------------------|
| AOS-058OVAL | 9/16 – 5/8                | .220                          |
| AOS-034OVAL | 3/4                       | .400                          |
| AOS-078OVAL | 7/8                       | .674                          |
| AOS-001OVAL | 1                         | -                             |
| AOS-114OVAL | 1 1/4                     | 1.922                         |

*Other sizes available on request.*

## Copper Duplex Sleeves or Copper Zinc Plated Duplex Sleeves



COS



CZOS

| Code<br>Copper | Code<br>Copper Zinc Plated | For cable diameter<br>in. | Weight / each approx.<br>lbs. |
|----------------|----------------------------|---------------------------|-------------------------------|
| COS-132        | CZOS-132                   | 1/32                      | .001                          |
| COS-364        | CZOS-364                   | 3/64                      | .002                          |
| COS-116        | CZOS-116                   | 1/16                      | .003                          |
| COS-332        | CZOS-332                   | 3/32                      | .005                          |
| COS-018        | CZOS-018                   | 1/8                       | .016                          |
| COS-532        | CZOS-532                   | 5/32                      | .022                          |
| COS-316        | CZOS-316                   | 3/16                      | .051                          |
| COS-732        | CZOS-732                   | 7/32                      | .044                          |
| COS-014        | CZOS-014                   | 1/4                       | .078                          |
| COS-516        | CZOS-516                   | 5/16                      | .115                          |
| COS-038        | CZOS-038                   | 3/8                       | .146                          |
| COS-012        | CZOS-012                   | 1/2                       | .372                          |

*Federal Specifications MS51844  
Tin or Nickel plating available on request*

**Easier  
Insertion**

## Aluminum Stop Sleeves, *chamfered*



| Code    | For cable diameter<br>in. | Weight / each approx.<br>lbs. |
|---------|---------------------------|-------------------------------|
| ASS-116 | 1/16                      | .001                          |
| ASS-564 | 5/64                      | .002                          |
| ASS-332 | 3/32                      | .003                          |
| ASS-018 | 1/8                       | .002                          |
| ASS-532 | 5/32                      | .004                          |
| ASS-316 | 3/16                      | .004                          |
| ASS-014 | 1/4                       | .021                          |
| ASS-516 | 5/16                      | .022                          |
| ASS-038 | 3/8                       | .022                          |



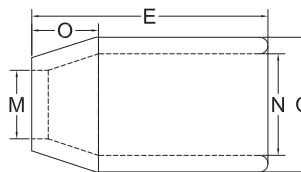
## Copper Stop Sleeves

| Code    | For cable diameter<br>in. | Weight / each approx.<br>lbs. |
|---------|---------------------------|-------------------------------|
| CSS-132 | 1/32                      | .001                          |
| CSS-364 | 3/64                      | .002                          |
| CSS-116 | 1/16                      | .002                          |
| CSS-332 | 3/32                      | .008                          |
| CSS-018 | 1/8                       | .007                          |
| CSS-532 | 5/32                      | .012                          |
| CSS-316 | 3/16                      | .105                          |
| CSS-732 | 7/32                      | .186                          |
| CSS-014 | 1/4                       | .061                          |
| CSS-516 | 5/16                      | .052                          |



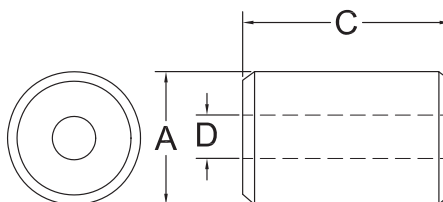
## Steel Sleeves

| Code       | Rope Size in. | Weight per 100 lbs | Before Swage Dimensions in. |       |      |      |      | After Swage Dimensions in. (max) |
|------------|---------------|--------------------|-----------------------------|-------|------|------|------|----------------------------------|
|            |               |                    | C                           | E     | M    | N    | O    | Standard Die                     |
| BAS505-014 | 1/4           | 5                  | .66                         | 1.00  | .31  | .47  | .28  | .57                              |
| BAS505-516 | 5/16          | 14                 | .91                         | 1.50  | .38  | .62  | .44  | .75                              |
| BAS505-038 | 3/8           | 14                 | .91                         | 1.50  | .47  | .66  | .39  | .75                              |
| BAS505-716 | 7/16          | 33                 | 1.22                        | 2.00  | .53  | .85  | .65  | 1.01                             |
| BAS505-012 | 1/2           | 29                 | 1.22                        | 2.00  | .63  | .91  | .56  | 1.01                             |
| BAS505-916 | 9/16          | 64                 | 1.47                        | 2.75  | .70  | 1.03 | .63  | 1.24                             |
| BAS505-058 | 5/8           | 56                 | 1.47                        | 2.75  | .75  | 1.09 | .63  | 1.24                             |
| BAS505-034 | 3/4           | 88                 | 1.72                        | 3.19  | .91  | 1.28 | .84  | 1.46                             |
| BAS505-078 | 7/8           | 131                | 2.03                        | 3.56  | 1.03 | 1.53 | 1.00 | 1.68                             |
| BAS505-001 | 1             | 195                | 2.28                        | 4.00  | 1.16 | 1.72 | 1.13 | 1.93                             |
| BAS505-118 | 1 1/8         | 260                | 2.50                        | 4.81  | 1.28 | 1.94 | 1.25 | 2.13                             |
| BAS505-114 | 1 1/4         | 355                | 2.78                        | 5.19  | 1.44 | 2.16 | 1.41 | 2.32                             |
| BAS505-138 | 1 3/8         | 423                | 3.00                        | 5.81  | 1.56 | 2.38 | 1.56 | 2.52                             |
| BAS505-112 | 1 1/2         | 499                | 3.25                        | 6.25  | 1.69 | 2.63 | 1.69 | 2.71                             |
| BAS505-134 | 1 3/4         | 805                | 3.84                        | 7.25  | 1.94 | 3.13 | 1.97 | 3.10                             |
| BAS505-002 | 2             | 1,132              | 4.38                        | 8.50  | 2.25 | 3.63 | 2.25 | 3.56                             |
| BAS505-214 | 2 1/4         | 1,936              | 5.03                        | 9.56  | 2.50 | 4.03 | 2.53 | 4.12                             |
| BAS505-212 | 2 1/2         | 2,352              | 5.50                        | 10.50 | 2.75 | 4.50 | 2.81 | 4.50                             |



## Steel Swage Buttons

| Code      | Weight / ea. approx. lbs. | Dimensions (in.) |       |       | After Swage Dimensions (in.) |      |
|-----------|---------------------------|------------------|-------|-------|------------------------------|------|
|           |                           | A                | C     | D     | A                            | C    |
| SBS409018 | .02                       | 0.438            | 0.526 | 0.141 | 0.40                         | 0.61 |
| SBS409316 | .04                       | 0.568            | 0.737 | 0.203 | 0.52                         | 0.84 |
| SBS409014 | .07                       | 0.632            | 1.000 | 0.281 | 0.58                         | 1.20 |
| SBS409516 | .15                       | 0.852            | 1.150 | 0.344 | 0.77                         | 1.33 |
| SBS409038 | .20                       | 0.875            | 1.500 | 0.406 | 0.77                         | 1.69 |
| SBS409716 | .39                       | 1.136            | 1.684 | 0.469 | 1.03                         | 1.94 |
| SBS409012 | .54                       | 1.278            | 1.840 | 0.531 | 1.16                         | 2.17 |
| SBS409916 | .73                       | 1.420            | 2.040 | 0.594 | 1.29                         | 2.41 |
| SBS409058 | 1.07                      | 1.562            | 2.421 | 0.656 | 1.42                         | 2.89 |
| SBS409034 | 1.36                      | 1.704            | 2.720 | 0.797 | 1.55                         | 3.25 |
| SBS409078 | 2.24                      | 2.000            | 3.263 | 0.938 | 1.80                         | 3.86 |
| SBS409001 | 3.27                      | 2.272            | 3.684 | 1.063 | 2.05                         | 4.36 |
| SBS409118 | 4.59                      | 2.563            | 4.050 | 1.187 | 2.30                         | 4.81 |
| SBS409114 | 7.89                      | 2.840            | 4.560 | 1.320 | 2.56                         | 5.42 |
| SBS409112 | 11.01                     | 3.408            | 5.470 | 1.578 | TBD                          | TBD  |



Properly swaged aluminum and copper oval sleeves and duplex will develop the published nominal break strength of the cable on 3x7, 7x7, and 7x19 constructions. Sleeves used on other constructions will not hold to the nominal published break strength.

Stop sleeves will not hold to the nominal published break strength of any cable.

We recommend the use of a mechanical or hydraulic swager to obtain the full holding power of stainless steel oval sleeves.

Sleeves and other fittings swaged over a plastic jacket will not hold to the nominal published break strength of the cable.

To determine the actual holding strength of any fitting a pull test must be made.

This will assist in determining if the applied fitting is suitable for your application.

EYE-SPLICE - OVAL SLEEVE OR DUPLEX

STOP SLEEVE

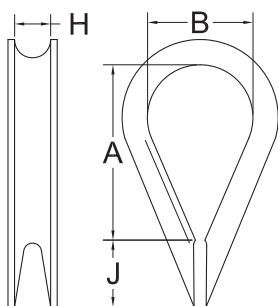


LAP SPLICE - OVAL SLEEVES OR DUPLEX



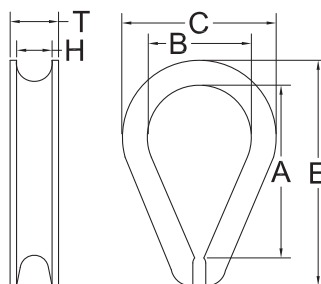


## AN Thimbles (zinc plated)



| Code     | For cable diameter in. | Weight / ea. approx. lbs. | Dimensions in. |       |       |       |
|----------|------------------------|---------------------------|----------------|-------|-------|-------|
|          |                        |                           | A              | B     | H     | J     |
| ANTZ-116 | 3/64 – 1/16 – 5/64     | .002                      | 43/64          | .350  | 3/32  | 3/16  |
| ANTZ-018 | 3/32 – 7/64 – 1/8      | .004                      | 45/64          | .350  | 9/64  | 7/32  |
| ANTZ-532 | 5/32                   | .006                      | 51/64          | .400  | 11/64 | 7/32  |
| ANTZ-316 | 3/16                   | .010                      | 1              | .500  | 13/64 | 5/16  |
| ANTZ-014 | 7/32 – 1/4             | .015                      | 1 13/32        | .700  | 17/64 | 13/32 |
| ANTZ-516 | 9/32 – 5/16            | .035                      | 1 51/64        | .900  | 21/64 | 7/16  |
| ANTZ-038 | 3/8                    | .085                      | 2              | 1.000 | 25/64 | 5/8   |

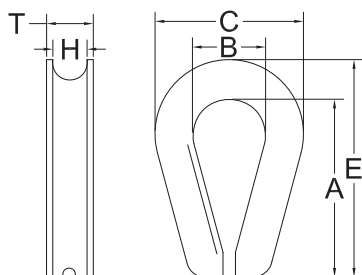
## Standard Thimbles (galvanized)



| Code       | For cable diameter in. | Weight / ea. approx. lbs. | Dimensions in. |      |      |      |      |      |
|------------|------------------------|---------------------------|----------------|------|------|------|------|------|
|            |                        |                           | A              | B    | C    | E    | H    | T    |
| STD TG-018 | 1/8 - 5/32             | .035                      | 1.31           | .69  | 1.06 | 1.94 | .16  | .25  |
| STD TG-316 | 3/16                   | .035                      | 1.31           | .69  | 1.06 | 1.94 | .22  | .31  |
| STD TG-014 | 1/4                    | .035                      | 1.31           | .69  | 1.06 | 1.94 | .28  | .38  |
| STD TG-516 | 5/16                   | .040                      | 1.50           | .81  | 1.25 | 2.13 | .34  | .44  |
| STD TG-038 | 3/8                    | .075                      | 1.63           | .94  | 1.47 | 2.38 | .41  | .53  |
| STD TG-012 | 1/2                    | .140                      | 1.88           | 1.13 | 1.75 | 2.75 | .53  | .69  |
| STD TG-058 | 5/8                    | .360                      | 2.25           | 1.38 | 2.38 | 3.50 | .66  | .91  |
| STD TG-034 | 3/4                    | .500                      | 2.50           | 1.63 | 2.69 | 3.75 | .78  | 1.08 |
| STD TG-078 | 7/8                    | .900                      | 3.50           | 1.88 | 3.19 | 5.00 | .94  | 1.27 |
| STD TG-001 | 1                      | 1.04                      | 4.25           | 2.50 | 3.75 | 5.69 | 1.06 | 1.39 |

**Federal Specification : FF-T-276B** Other dimensions available upon request.

## HD Thimbles (galvanized)



| Code     | For cable diameter in. | Weight / ea. approx. lbs. | Dimensions in. |      |       |       |      |      |
|----------|------------------------|---------------------------|----------------|------|-------|-------|------|------|
|          |                        |                           | A              | B    | C     | E     | H    | T    |
| HDTG-014 | 1/4                    | 0.080                     | 1.62           | .88  | 1.50  | 2.19  | .28  | .41  |
| HDTG-516 | 5/16                   | 0.140                     | 1.88           | 1.06 | 1.81  | 2.50  | .34  | .50  |
| HDTG-038 | 3/8                    | 0.260                     | 2.12           | 1.12 | 2.12  | 2.88  | .41  | .63  |
| HDTG-716 | 7/16                   | 0.300                     | 2.38           | 1.25 | 2.38  | 3.25  | .47  | .72  |
| HDTG-012 | 1/2                    | 0.440                     | 2.75           | 1.50 | 2.75  | 3.62  | .59  | .89  |
| HDTG-916 | 9/16                   | 0.510                     | 2.75           | 1.50 | 2.75  | 3.62  | .59  | .89  |
| HDTG-058 | 5/8                    | 0.740                     | 3.25           | 1.75 | 3.12  | 4.25  | .66  | 1.00 |
| HDTG-034 | 3/4                    | 1.150                     | 3.75           | 2.00 | 3.81  | 5.00  | .78  | 1.22 |
| HDTG-078 | 7/8                    | 1.500                     | 4.25           | 2.25 | 4.25  | 5.50  | .94  | 1.38 |
| HDTG-001 | 1                      | 2.250                     | 4.50           | 2.50 | 4.75  | 6.12  | 1.06 | 1.56 |
| HDTG-114 | 1 1/8 – 1 1/4          | 3.360                     | 5.12           | 2.88 | 5.88  | 7.00  | 1.31 | 1.88 |
| HDTG-138 | 1 1/4 – 1 3/8          | 8.17                      | 6.50           | 3.50 | 6.81  | 9.08  | 1.44 | 2.25 |
| HDTG-112 | 1 1/2                  | 10.00                     | 6.25           | 3.50 | 7.12  | 9.00  | 1.56 | 2.62 |
| HDTG-002 | 2                      | 27.75                     | 12.00          | 6.00 | 10.38 | 15.12 | 2.09 | 3.38 |

**Federal Specification : FF-T-276B** Other dimensions available upon request.



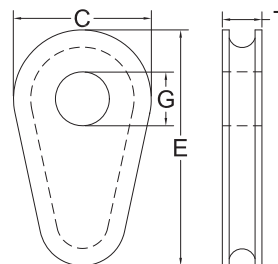
## Round Eye Thimbles (zinc)

| Code         | For cable diameter in. | Weight / ea. | Dimensions in. |       |
|--------------|------------------------|--------------|----------------|-------|
|              |                        |              | E              | G     |
| RETZC-018281 | 3/32 – 1/8             | 0.02         | 0.625          | 0.281 |
| RETZC-018359 | 3/32– 1/8              | 0.02         | 0.625          | 0.359 |



## Solid Wire Rope Thimbles

| Code     | For cable diameter in. | Weight / ea. lbs. | Dimensions in. |         |        |         |
|----------|------------------------|-------------------|----------------|---------|--------|---------|
|          |                        |                   | C              | E       | G      | T       |
| S412-012 | 1/2                    | 2.25              | 2 1/8          | 2 13/16 | 1      | 7/8     |
| S412-058 | 5/8                    | 6.00              | 3 3/8          | 4 11/16 | 1 3/16 | 1 1/8   |
| S412-034 | 3/4                    | 5.12              | 3 3/8          | 4 11/16 | 1 3/8  | 1 3/8   |
| S412-078 | 7/8                    | 10.00             | 4 1/2          | 6 1/16  | 1 5/8  | 1 5/8   |
| S412-001 | 1                      | 10.00             | 4 1/2          | 6 1/16  | 2      | 1 13/16 |
| S412-118 | 1 1/8                  | 10.00             | 5 3/8          | 7 1/4   | 2 1/4  | 2 1/16  |
| S412-114 | 1 1/4 — 1 3/8          | 10.00             | 5 3/8          | 7 1/4   | 2 1/2  | 2 5/16  |

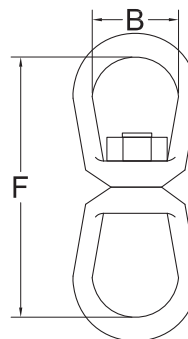


## Eye & Eye Swivels (forged steel galvanized)

| Code     | Diameter in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |         |
|----------|--------------|-------------------------|-------------------|----------------|---------|
|          |              |                         |                   | B              | F       |
| G402-014 | 1/4          | 850                     | 0.21              | 3/4            | 2 15/16 |
| G402-516 | 5/16         | 1,250                   | 0.39              | 1              | 3 9/16  |
| G402-038 | 3/8          | 2,250                   | 0.75              | 1 1/4          | 4 5/16  |
| G402-012 | 1/2          | 3,600                   | 1.43              | 1 1/2          | 5 7/16  |
| G402-058 | 5/8          | 5,200                   | 2.50              | 1 3/4          | 6 9/16  |
| G402-034 | 3/4          | 7,200                   | 4.13              | 2              | 7 3/16  |
| G402-078 | 7/8          | 10,000                  | 6.25              | 2 1/4          | 8 3/8   |
| G402-001 | 1            | 12,500                  | 9.00              | 2 1/2          | 9 5/8   |
| G402-114 | 1 1/4        | 18,000                  | 15.75             | 3 1/8          | 11 1/8  |
| G402-112 | 1 1/2        | 45,200                  | 54.75             | 4              | 17 1/8  |

Safety Factor 5:1

Federal Specification : RR-C-271D

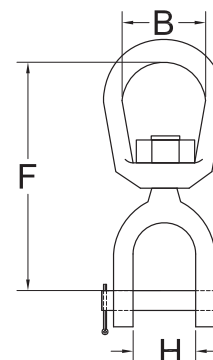


## Jaw & Eye Swivels (forged steel galvanized)

| Code     | Diameter in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |         |        |
|----------|--------------|-------------------------|-------------------|----------------|---------|--------|
|          |              |                         |                   | B              | F       | H      |
| G403-014 | 1/4          | 850                     | 0.25              | 3/4            | 2 5/8   | 15/32  |
| G403-516 | 5/16         | 1,250                   | 0.37              | 1              | 2 15/16 | 1/2    |
| G403-038 | 3/8          | 2,250                   | 0.70              | 1 1/4          | 3 5/8   | 5/8    |
| G403-012 | 1/2          | 3,600                   | 1.43              | 1 1/2          | 4 1/2   | 3/4    |
| G403-058 | 5/8          | 5,200                   | 2.48              | 1 3/4          | 5 5/16  | 15/16  |
| G403-034 | 3/4          | 7,200                   | 3.88              | 2              | 6 1/16  | 1 1/8  |
| G403-078 | 7/8          | 10,000                  | 5.75              | 2 1/4          | 7       | 1 3/16 |
| G403-001 | 1            | 12,500                  | 10.25             | 2 1/2          | 8 9/16  | 1 3/4  |
| G403-114 | 1 1/4        | 18,000                  | 15.75             | 3 1/8          | 9 7/16  | 2 1/16 |

Safety Factor 5:1

Federal Specification : RR-C-271D





## Wire Rope Clips (malleable, zinc plated)

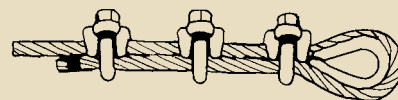
| Code      | For cable diameter in. | Weight / ea. lbs. | Dimensions in. |           | Nut Torque ft/lbs | Wire Rope Clips Min. Qty | Turn Back Length in. |
|-----------|------------------------|-------------------|----------------|-----------|-------------------|--------------------------|----------------------|
|           |                        |                   | A Minimum      | D Minimum |                   |                          |                      |
| WRCMA-116 | 1/16                   | 0.03              | 0.630          | 8 - 32    | 3.0               | 3                        | 3                    |
| WRCMA-018 | 3/32 - 1/8             | 0.04              | 0.780          | 10 - 24   | 3.0               | 3                        | 4 3/4                |
| WRCMA-316 | 3/16                   | 0.06              | 0.875          | 10 - 24   | 4.5               | 3                        | 5 1/2                |
| WRCMA-014 | 1/4                    | 0.12              | 1.188          | 5/16 - 18 | 15                | 3                        | 7                    |
| WRCMA-516 | 5/16                   | 0.14              | 1.188          | 5/16 - 18 | 15                | 3                        | 7 3/4                |
| WRCMA-038 | 3/8                    | 0.21              | 1.563          | 3/8 - 16  | 30                | 3                        | 9 1/2                |
| WRCMA-716 | 7/16                   | 0.27              | 1.625          | 3/8 - 16  | 40                | 3                        | 10 1/4               |
| WRCMA-012 | 1/2                    | 0.35              | 2.000          | 7/16 - 14 | 45                | 4                        | 15 1/4               |
| WRCMA-058 | 5/8                    | 0.58              | 2.313          | 1/2 - 13  | 75                | 4                        | 16                   |
| WRCMA-034 | 3/4                    | 0.84              | 2.563          | 9/16 - 12 | 75                | 5                        | 22 1/4               |
| WRCMA-078 | 7/8                    | 1.24              | 3.063          | 5/8 - 11  | 130               | 5                        | 23 1/2               |
| WRCMA-001 | 1                      | 1.50              | 3.375          | 5/8 - 11  | 130               | 6                        | 31                   |
| WRCMA-118 | 1 1/8                  | 2.60              | 3.875          | 3/4 - 10  | 200               | 7                        | 39 1/2               |
| WRCMA-114 | 1 1/4                  | 3.60              | 3.875          | 3/4 - 10  | 200               | 8                        | 50                   |

**Federal Specification : FF-C-450** Other dimensions available upon request.

### Instructions for use of Wire Rope Clips :

Wire rope clips are not to be used on coated cable without first stripping off the coating. Apply U-Bolt over dead end of wire rope. Live end rests in saddle. (Never saddle a dead horse !)

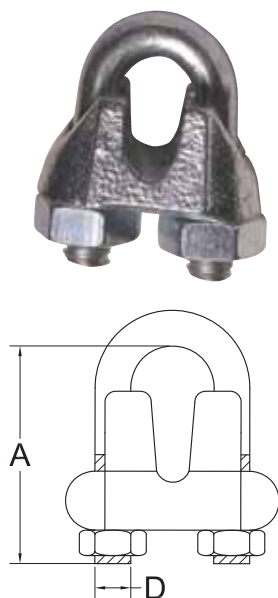
See following table for indications concerning quantity of clips to be installed and "turn back" lengths required on specific diameters of rope. These indications are valid for most cable "constructions". Please contact our specialists for more information.



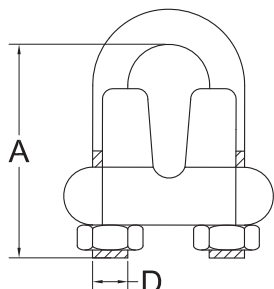
## Wire Rope Clips (drop-forged, galvanized)

| Code         | For cable diameter in. | Weight / ea. lbs. | Dimensions in. |           | Nut Torque ft/lbs | Wire Rope Clips Min. Qty | Turn Back Length in. |
|--------------|------------------------|-------------------|----------------|-----------|-------------------|--------------------------|----------------------|
|              |                        |                   | A Minimum      | D Minimum |                   |                          |                      |
| WRCDF-BP-018 | 1/8                    | 0.06              | 0.719          | 12 - 24   | 4.5               | 2                        | 3 1/4                |
| WRCDF-BP-316 | 3/16                   | 0.10              | 0.938          | 1/4 - 20  | 7.5               | 2                        | 3 3/4                |
| WRCDF-BP-014 | 1/4                    | 0.19              | 1.031          | 5/16 - 18 | 15                | 2                        | 4 3/4                |
| WRCDF-BP-516 | 5/16                   | 0.28              | 1.313          | 3/8 - 16  | 30                | 2                        | 5 1/4                |
| WRCDF-BP-038 | 3/8                    | 0.48              | 1.500          | 7/16 - 14 | 45                | 2                        | 6 1/2                |
| WRCDF-BP-716 | 7/16                   | 0.76              | 1.875          | 1/2 - 13  | 65                | 2                        | 7                    |
| WRCDF-BP-012 | 1/2                    | 0.80              | 1.875          | 1/2 - 13  | 65                | 3                        | 11 1/2               |
| WRCDF-BP-916 | 9/16                   | 1.04              | 2.250          | 9/16 - 12 | 95                | 3                        | 12                   |
| WRCDF-BP-058 | 5/8                    | 1.10              | 2.375          | 9/16 - 12 | 95                | 3                        | 12                   |
| WRCDF-BP-034 | 3/4                    | 1.42              | 2.750          | 5/8 - 11  | 130               | 4                        | 18                   |
| WRCDF-BP-078 | 7/8                    | 2.12              | 3.125          | 3/4 - 10  | 225               | 4                        | 19                   |
| WRCDF-BP-001 | 1                      | 2.52              | 3.500          | 3/4 - 10  | 225               | 5                        | 26                   |
| WRCDF-BP-118 | 1 1/8                  | 2.90              | 3.875          | 3/4 - 10  | 225               | 6                        | 34                   |
| WRCDF-BP-114 | 1 1/4                  | 4.30              | 4.250          | 7/8 - 9   | 360               | 7                        | 44                   |
| WRCDF-BP-112 | 1 1/2                  | 5.40              | 4.940          | 1 1/4 - 9 | 275               | 8                        | 54                   |

**Federal Specification : FF-C-450** Other dimensions available upon request.



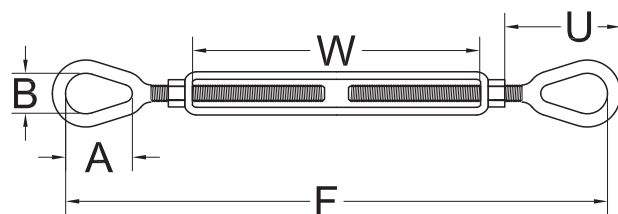
™ Brown Pin







## Galvanized Turnbuckles, drop-forged



### Galvanized Turnbuckles (EYE & EYE), drop-forged

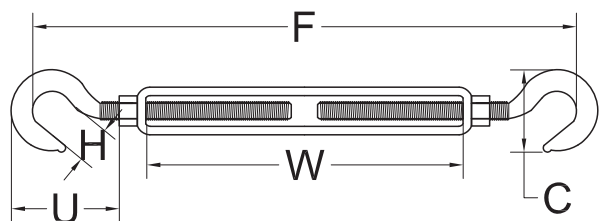
| Code        | Thread Dia. x<br>Take-Up<br>in. | Working<br>Load<br>Limit<br>lbs | Weight<br>Each<br>lbs | Dimensions<br>in. |      |           |             |             |       |
|-------------|---------------------------------|---------------------------------|-----------------------|-------------------|------|-----------|-------------|-------------|-------|
|             |                                 |                                 |                       | A                 | B    | F<br>Open | F<br>Closed | U<br>Closed | W     |
| TEEG-01404  | 1/4 x 4                         | 500                             | 0.26                  | .78               | .34  | 11.80     | 7.80        | 1.75        | 4.00  |
| TEEG-516412 | 5/16 x 4 1/2                    | 800                             | 0.45                  | .94               | .44  | 13.56     | 9.06        | 2.09        | 4.50  |
| TEEG-03806  | 3/8 x 6                         | 1,200                           | 0.75                  | 1.12              | .53  | 17.47     | 11.47       | 2.52        | 6.00  |
| TEEG-01206  | 1/2 x 6                         | 2,200                           | 1.50                  | 1.44              | .72  | 20.08     | 13.08       | 3.23        | 6.00  |
| TEEG-01209  | 1/2 x 9                         | 2,200                           | 1.75                  | 1.44              | .72  | 26.08     | 16.08       | 3.23        | 9.00  |
| TEEG-01212  | 1/2 x 12                        | 2,200                           | 2.18                  | 1.44              | .72  | 32.08     | 19.08       | 3.23        | 12.00 |
| TEEG-05806  | 5/8 x 6                         | 3,500                           | 2.63                  | 1.75              | .88  | 21.93     | 14.68       | 3.90        | 6.00  |
| TEEG-05809  | 5/8 x 9                         | 3,500                           | 3.00                  | 1.75              | .88  | 27.93     | 17.68       | 3.90        | 9.00  |
| TEEG-05812  | 5/8 x 12                        | 3,500                           | 3.25                  | 1.75              | .88  | 33.93     | 20.68       | 3.90        | 12.00 |
| TEEG-03406  | 3/4 x 6                         | 5,200                           | 3.75                  | 2.09              | 1.00 | 23.88     | 16.38       | 4.69        | 6.00  |
| TEEG-03409  | 3/4 x 9                         | 5,200                           | 4.50                  | 2.09              | 1.00 | 29.88     | 19.38       | 4.69        | 9.00  |
| TEEG-03412  | 3/4 x 12                        | 5,200                           | 5.75                  | 2.09              | 1.00 | 35.88     | 22.38       | 4.69        | 12.00 |
| TEEG-03418  | 3/4 x 18                        | 5,200                           | 7.00                  | 2.09              | 1.00 | 47.88     | 28.38       | 4.69        | 18.00 |
| TEEG-07812  | 7/8 x 12                        | 7,200                           | 8.35                  | 2.38              | 1.25 | 37.07     | 23.32       | 5.10        | 12.00 |
| TEEG-07818  | 7/8 x 18                        | 7,200                           | 10.25                 | 2.38              | 1.25 | 49.07     | 29.32       | 5.10        | 18.00 |
| TEEG-00106  | 1 x 6                           | 10,000                          | 9.04                  | 3.00              | 1.44 | 27.97     | 19.97       | 6.36        | 6.00  |
| TEEG-00112  | 1 x 12                          | 10,000                          | 11.25                 | 3.00              | 1.44 | 39.97     | 25.97       | 6.36        | 12.00 |
| TEEG-00118  | 1 x 18                          | 10,000                          | 14.0                  | 3.00              | 1.44 | 51.97     | 31.97       | 6.36        | 18.00 |
| TEEG-00124  | 1 x 24                          | 10,000                          | 17.0                  | 3.00              | 1.44 | 63.97     | 37.97       | 6.36        | 24.00 |
| TEEG-11412  | 1 1/4 x 12                      | 15,200                          | 19.0                  | 3.56              | 1.81 | 42.81     | 28.31       | 7.72        | 12.00 |
| TEEG-11418  | 1 1/4 x 18                      | 15,200                          | 24.1                  | 3.56              | 1.81 | 54.81     | 34.31       | 7.72        | 18.00 |
| TEEG-11424  | 1 1/4 x 24                      | 15,200                          | 27.0                  | 3.56              | 1.81 | 66.81     | 40.31       | 7.72        | 24.00 |
| TEEG-11212  | 1 1/2 x 12                      | 21,400                          | 27.0                  | 4.06              | 2.12 | 45.50     | 30.50       | 8.62        | 12.00 |
| TEEG-11218  | 1 1/2 x 18                      | 21,400                          | 31.2                  | 4.06              | 2.12 | 57.50     | 36.50       | 8.62        | 18.00 |
| TEEG-11224  | 1 1/2 x 24                      | 21,400                          | 38.2                  | 4.06              | 2.12 | 69.50     | 42.50       | 8.62        | 24.00 |
| TEEG-13418  | 1 3/4 x 18                      | 28,000                          | 45.0                  | 4.62              | 2.38 | 57.38     | 39.38       | 10.00       | 18.00 |
| TEEG-13424  | 1 3/4 x 24                      | 28,000                          | 58.0                  | 4.62              | 2.38 | 69.38     | 45.38       | 10.00       | 24.00 |
| TEEG-00224  | 2 x 24                          | 37,000                          | 85.0                  | 5.75              | 2.69 | 75.69     | 51.69       | 13.09       | 24.00 |
| TEEG-21224  | 2 1/2 x 24                      | 60,000                          | 148.0                 | 6.50              | 3.12 | 78.62     | 54.62       | 13.78       | 24.00 |
| TEEG-23424  | 2 3/4 x 24                      | 75,000                          | 180.0                 | 7.00              | 3.25 | 81.00     | 57.00       | 15.22       | 24.00 |

Safety Factor 5:1

Federal Specification : FF-T-791B Other dimensions available upon request.

UNC Threading.

Jam Nut : included in sizes 1/4" to 1/2"



### Galvanized Turnbuckles (HOOK & HOOK), drop-forged

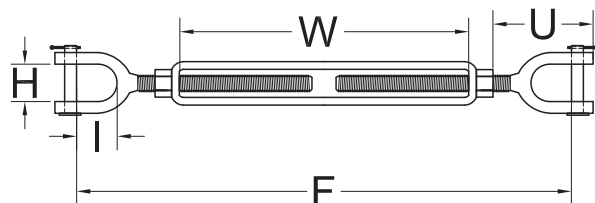
| Code        | Thread Dia. x<br>Take-Up<br>in. | Working<br>Load<br>Limit<br>lbs | Weight<br>Each<br>lbs | Dimensions<br>in. |           |             |      |             |       |
|-------------|---------------------------------|---------------------------------|-----------------------|-------------------|-----------|-------------|------|-------------|-------|
|             |                                 |                                 |                       | C                 | F<br>Open | F<br>Closed | H    | U<br>Closed | W     |
| THHG-01404  | 1/4 x 4                         | 400                             | 0.26                  | 1.27              | 11.12     | 7.12        | .45  | 1.59        | 4.00  |
| THHG-516412 | 5/16 x 4 1/2                    | 700                             | 0.45                  | 1.50              | 12.81     | 8.31        | .50  | 1.94        | 4.50  |
| THHG-03806  | 3/8 x 6                         | 1,000                           | 0.75                  | 1.77              | 16.50     | 10.50       | .56  | 2.30        | 6.00  |
| THHG-01206  | 1/2 x 6                         | 1,500                           | 1.50                  | 2.28              | 18.82     | 11.82       | .66  | 2.94        | 6.00  |
| THHG-01209  | 1/2 x 9                         | 1,500                           | 1.75                  | 2.28              | 24.82     | 14.82       | .66  | 2.94        | 9.00  |
| THHG-01212  | 1/2 x 12                        | 1,500                           | 2.18                  | 2.28              | 30.82     | 17.82       | .66  | 2.94        | 12.00 |
| THHG-05806  | 5/8 x 6                         | 2,250                           | 2.63                  | 2.81              | 20.50     | 13.25       | .90  | 3.69        | 6.00  |
| THHG-05809  | 5/8 x 9                         | 2,250                           | 3.00                  | 2.81              | 26.50     | 16.25       | .90  | 3.69        | 9.00  |
| THHG-05812  | 5/8 x 12                        | 2,250                           | 3.25                  | 2.81              | 32.50     | 19.25       | .90  | 3.69        | 12.00 |
| THHG-03406  | 3/4 x 6                         | 3,000                           | 3.75                  | 3.33              | 22.38     | 14.88       | .98  | 4.52        | 6.00  |
| THHG-03409  | 3/4 x 9                         | 3,000                           | 4.50                  | 3.33              | 28.38     | 17.88       | .98  | 4.52        | 9.00  |
| THHG-03412  | 3/4 x 12                        | 3,000                           | 5.75                  | 3.33              | 34.38     | 20.88       | .98  | 4.52        | 12.00 |
| THHG-03418  | 3/4 x 18                        | 3,000                           | 7.00                  | 3.33              | 46.38     | 26.88       | .98  | 4.52        | 18.00 |
| THHG-07812  | 7/8 x 12                        | 4,000                           | 8.35                  | 3.78              | 36.00     | 22.25       | 1.13 | 5.19        | 12.00 |
| THHG-07818  | 7/8 x 18                        | 4,000                           | 10.25                 | 3.78              | 48.00     | 28.25       | 1.13 | 5.19        | 18.00 |
| THHG-00106  | 1 x 6                           | 5,000                           | 9.04                  | 4.25              | 25.63     | 17.63       | 1.25 | 5.84        | 6.00  |
| THHG-00112  | 1 x 12                          | 5,000                           | 11.25                 | 4.25              | 37.63     | 23.63       | 1.25 | 5.84        | 12.00 |
| THHG-00118  | 1 x 18                          | 5,000                           | 14.0                  | 4.25              | 49.63     | 29.63       | 1.25 | 5.84        | 18.00 |
| THHG-00124  | 1 x 24                          | 5,000                           | 17.0                  | 4.25              | 61.63     | 35.63       | 1.25 | 5.84        | 24.00 |
| THHG-11412  | 1 1/4 x 12                      | 6,500                           | 19.0                  | 5.13              | 40.50     | 26.50       | 1.50 | 7.22        | 12.00 |
| THHG-11418  | 1 1/4 x 18                      | 6,500                           | 24.1                  | 5.13              | 52.50     | 32.50       | 1.50 | 7.22        | 18.00 |
| THHG-11424  | 1 1/4 x 24                      | 6,500                           | 27.0                  | 5.13              | 64.50     | 38.50       | 1.50 | 7.22        | 24.00 |
| THHG-11212  | 1 1/2 x 12                      | 7,500                           | 27.0                  | 5.75              | 43.50     | 30.50       | 1.88 | 8.34        | 12.00 |
| THHG-11218  | 1 1/2 x 18                      | 7,500                           | 31.2                  | 5.75              | 55.50     | 36.50       | 1.88 | 8.34        | 18.00 |
| THHG-11224  | 1 1/2 x 24                      | 7,500                           | 38.2                  | 5.75              | 67.50     | 42.50       | 1.88 | 8.34        | 24.00 |

**Safety Factor 5:1**

**Federal Specification : FF-T-791B** Other dimensions available upon request.

UNC Threading.

Jam Nut : included in sizes 1/4" to 1/2"



### Galvanized Turnbuckles (JAW & JAW), drop-forged

| Code       | Thread Dia. x Take-Up in. | Working Load Limit lbs | Weight Each lbs | Dimensions in. |          |      |      |          |       |
|------------|---------------------------|------------------------|-----------------|----------------|----------|------|------|----------|-------|
|            |                           |                        |                 | F Open         | F Closed | H    | I    | U Closed | W     |
| TJG-01404  | 1/4 x 4                   | 500                    | 0.36            | 10.90          | 6.90     | .45  | .62  | 1.58     | 4.00  |
| TJG-516412 | 5/16 x 4 1/2              | 800                    | 0.52            | 12.36          | 8.36     | .50  | .87  | 1.98     | 4.50  |
| TJG-03806  | 3/8 x 6                   | 1,200                  | 0.93            | 16.14          | 10.14    | .54  | .87  | 2.12     | 6.00  |
| TJG-01206  | 1/2 x 6                   | 2,200                  | 1.68            | 18.50          | 11.50    | .65  | 1.06 | 2.75     | 6.00  |
| TJG-01209  | 1/2 x 9                   | 2,200                  | 1.85            | 24.50          | 14.50    | .65  | 1.06 | 2.75     | 9.00  |
| TJG-01212  | 1/2 x 12                  | 2,200                  | 2.20            | 30.50          | 17.50    | .65  | 1.06 | 2.75     | 12.00 |
| TJG-05806  | 5/8 x 6                   | 3,500                  | 2.82            | 20.05          | 12.80    | .79  | 1.31 | 3.50     | 6.00  |
| TJG-05809  | 5/8 x 9                   | 3,500                  | 3.25            | 26.05          | 15.80    | .79  | 1.31 | 3.50     | 9.00  |
| TJG-05812  | 5/8 x 12                  | 3,500                  | 3.75            | 32.05          | 18.80    | .79  | 1.31 | 3.50     | 12.00 |
| TJG-03406  | 3/4 x 6                   | 5,200                  | 4.68            | 21.50          | 14.00    | .94  | 1.50 | 4.18     | 6.00  |
| TJG-03409  | 3/4 x 9                   | 5,200                  | 5.36            | 27.50          | 17.00    | .94  | 1.50 | 4.18     | 9.00  |
| TJG-03412  | 3/4 x 12                  | 5,200                  | 6.12            | 33.50          | 20.00    | .94  | 1.50 | 4.18     | 12.00 |
| TJG-03418  | 3/4 x 18                  | 5,200                  | 7.75            | 45.50          | 26.00    | .94  | 1.50 | 4.18     | 18.00 |
| TJG-07812  | 7/8 x 12                  | 7,200                  | 9.38            | 35.11          | 21.36    | 1.13 | 1.75 | 4.85     | 12.00 |
| TJG-07818  | 7/8 x 18                  | 7,200                  | 11.44           | 47.11          | 27.36    | 1.13 | 1.75 | 4.85     | 18.00 |
| TJG-00106  | 1 x 6                     | 10,000                 | 10.20           | 24.72          | 16.72    | 1.34 | 2.06 | 5.53     | 6.00  |
| TJG-00112  | 1 x 12                    | 10,000                 | 12.88           | 36.72          | 22.72    | 1.34 | 2.06 | 5.53     | 12.00 |
| TJG-00118  | 1 x 18                    | 10,000                 | 16.10           | 48.72          | 28.72    | 1.34 | 2.06 | 5.53     | 18.00 |
| TJG-00124  | 1 x 24                    | 10,000                 | 18.60           | 60.72          | 34.72    | 1.34 | 2.06 | 5.53     | 24.00 |
| TJG-11412  | 1 1/4 x 12                | 15,200                 | 23.60           | 39.84          | 25.34    | 1.75 | 2.81 | 7.21     | 12.00 |
| TJG-11418  | 1 1/4 x 18                | 15,200                 | 26.60           | 51.84          | 31.34    | 1.75 | 2.81 | 7.21     | 18.00 |
| TJG-11424  | 1 1/4 x 24                | 15,200                 | 29.00           | 63.84          | 37.34    | 1.75 | 2.81 | 7.21     | 24.00 |
| TJG-11212  | 1 1/2 x 12                | 21,400                 | 35.50           | 41.50          | 26.50    | 2.06 | 2.81 | 7.88     | 12.00 |
| TJG-11218  | 1 1/2 x 18                | 21,400                 | 40.70           | 53.50          | 32.50    | 2.06 | 2.81 | 7.88     | 18.00 |
| TJG-11224  | 1 1/2 x 24                | 21,400                 | 47.60           | 65.50          | 38.50    | 2.06 | 2.81 | 7.88     | 24.00 |
| TJG-13418  | 1 3/4 x 18                | 28,000                 | 52.40           | 53.38          | 35.38    | 2.60 | 3.38 | 9.40     | 18.00 |
| TJG-13424  | 1 3/4 x 24                | 28,000                 | 64.00           | 65.38          | 41.38    | 2.60 | 3.38 | 9.40     | 24.00 |
| TJG-00224  | 2 x 24                    | 37,000                 | 94.00           | 69.54          | 45.54    | 2.62 | 3.69 | 11.86    | 24.00 |
| TJG-21224  | 2 1/2 x 24                | 60,000                 | 175.00          | 72.98          | 48.98    | 3.06 | 4.44 | 13.56    | 24.00 |
| TJG-23424  | 2 3/4 x 24                | 75,000                 | 248.00          | 74.75          | 50.75    | 3.63 | 4.19 | 15.22    | 24.00 |

**Safety Factor 5:1**

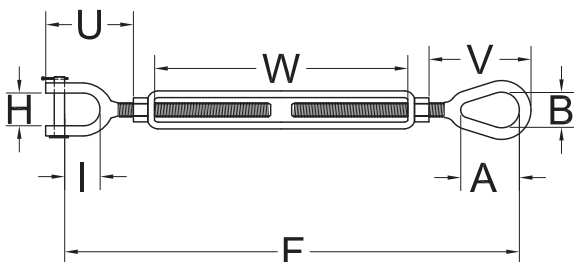
**Federal Specification : FF-T-791B** Other dimensions available upon request.

Forged jaw ends are fitted with bolts and nuts for 1/4" through 5/8", and pin cotters on 3/4" through 2 3/4" sizes.

UNC Threading.

Jam Nut : included in sizes 1/4" to 1/2"





### Galvanized Turnbuckles (JAW & EYE), drop-forged

| Code              | Thread Dia. x<br>Take-Up<br>in. | Working<br>Load<br>Limit<br>lbs | Weight<br>Each<br>lbs | Dimensions<br>in. |      |           |             |      |      |             |             |       |
|-------------------|---------------------------------|---------------------------------|-----------------------|-------------------|------|-----------|-------------|------|------|-------------|-------------|-------|
|                   |                                 |                                 |                       | A                 | B    | F<br>Open | F<br>Closed | H    | I    | U<br>Closed | V<br>Closed | W     |
| TJEG-01404        | 1/4 x 4                         | 500                             | .30                   | .78               | .34  | 11.35     | 7.35        | .45  | .62  | 1.58        | 1.75        | 4.00  |
| TJEG-516412       | 5/16 x 4 1/2                    | 800                             | .50                   | .94               | .44  | 13.71     | 8.71        | .50  | .87  | 1.98        | 2.09        | 4.50  |
| TJEG-03806        | 3/8 x 6                         | 1,200                           | .80                   | 1.12              | .53  | 16.81     | 10.81       | .54  | .87  | 2.12        | 2.52        | 6.00  |
| TJEG-01206        | 1/2 x 6                         | 2,200                           | 1.51                  | 1.44              | .72  | 19.29     | 12.29       | .65  | 1.06 | 2.75        | 3.23        | 6.00  |
| TJEG-01209        | 1/2 x 9                         | 2,200                           | 1.71                  | 1.44              | .72  | 25.29     | 15.29       | .65  | 1.06 | 2.75        | 3.23        | 9.00  |
| TJEG-01212        | 1/2 x 12                        | 2,200                           | 2.08                  | 1.44              | .72  | 31.29     | 18.29       | .65  | 1.06 | 2.75        | 3.23        | 12.00 |
| TJEG-05806        | 5/8 x 6                         | 3,500                           | 2.35                  | 1.75              | .88  | 20.99     | 13.74       | .79  | 1.31 | 3.50        | 3.90        | 6.00  |
| TJEG-05809        | 5/8 x 9                         | 3,500                           | 3.17                  | 1.75              | .88  | 26.99     | 16.74       | .79  | 1.31 | 3.50        | 3.90        | 9.00  |
| TJEG-05812        | 5/8 x 12                        | 3,500                           | 3.61                  | 1.75              | .88  | 32.99     | 19.74       | .79  | 1.31 | 3.50        | 3.90        | 12.00 |
| TJEG-03406        | 3/4 x 6                         | 5,200                           | 4.00                  | 2.09              | 1.00 | 22.69     | 15.19       | .94  | 1.50 | 4.18        | 4.69        | 6.00  |
| TJEG-03409        | 3/4 x 9                         | 5,200                           | 4.75                  | 2.09              | 1.00 | 28.69     | 18.19       | .94  | 1.50 | 4.18        | 4.69        | 9.00  |
| TJEG-03412        | 3/4 x 12                        | 5,200                           | 5.93                  | 2.09              | 1.00 | 34.69     | 21.19       | .94  | 1.50 | 4.18        | 4.69        | 12.00 |
| TJEG-03418        | 3/4 x 18                        | 5,200                           | 7.00                  | 2.09              | 1.00 | 46.69     | 27.19       | .94  | 1.50 | 4.18        | 4.69        | 18.00 |
| TJEG-07812        | 7/8 x 12                        | 7,200                           | 8.36                  | 2.38              | 1.25 | 36.09     | 22.34       | 1.13 | 1.75 | 4.85        | 5.10        | 12.00 |
| TJEG-07818        | 7/8 x 18                        | 7,200                           | 9.75                  | 2.38              | 1.25 | 48.09     | 28.34       | 1.13 | 1.75 | 4.85        | 5.10        | 18.00 |
| TJEG-00106        | 1 x 6                           | 10,000                          | 8.92                  | 3.00              | 1.44 | 26.34     | 18.34       | 1.34 | 2.06 | 5.53        | 6.36        | 6.00  |
| TJEG-00112        | 1 x 12                          | 10,000                          | 11.20                 | 3.00              | 1.44 | 38.34     | 24.34       | 1.34 | 2.06 | 5.53        | 6.36        | 12.00 |
| TJEG-00118        | 1 x 18                          | 10,000                          | 13.30                 | 3.00              | 1.44 | 50.34     | 30.34       | 1.34 | 2.06 | 5.53        | 6.36        | 18.00 |
| TJEG-00124        | 1 x 24                          | 10,000                          | 17.00                 | 3.00              | 1.44 | 62.34     | 36.34       | 1.34 | 2.06 | 5.53        | 6.36        | 24.00 |
| TJEG-11412        | 1 1/4 x 12                      | 15,200                          | 19.42                 | 3.56              | 1.81 | 41.32     | 26.82       | 1.75 | 2.81 | 7.21        | 7.72        | 12.00 |
| TJEG-11418        | 1 1/4 x 18                      | 15,200                          | 24.18                 | 3.56              | 1.81 | 53.32     | 32.82       | 1.75 | 2.81 | 7.21        | 7.72        | 18.00 |
| TJEG-11424        | 1 1/4 x 24                      | 15,200                          | 28.50                 | 3.56              | 1.81 | 65.32     | 38.82       | 1.75 | 2.81 | 7.21        | 7.72        | 24.00 |
| TJEG-11212        | 1 1/2 x 12                      | 21,400                          | 28.99                 | 4.06              | 2.12 | 43.50     | 28.50       | 2.06 | 2.81 | 7.88        | 8.62        | 12.00 |
| TJEG-11218        | 1 1/2 x 18                      | 21,400                          | 35.00                 | 4.06              | 2.12 | 55.50     | 34.50       | 2.06 | 2.81 | 7.88        | 8.62        | 18.00 |
| TJEG-11224        | 1 1/2 x 24                      | 21,400                          | 39.18                 | 4.06              | 2.12 | 67.50     | 40.50       | 2.06 | 2.91 | 7.88        | 8.62        | 24.00 |
| TJEG-13418        | 1 3/4 x 18                      | 28,000                          | 53.75                 | 4.62              | 2.38 | 53.38     | 37.38       | 2.60 | 3.38 | 9.40        | 10.00       | 18.00 |
| TJEG-13424        | 1 3/4 x 24                      | 28,000                          | 60.68                 | 4.62              | 2.38 | 67.38     | 43.38       | 2.60 | 3.38 | 9.40        | 10.00       | 24.00 |
| TJEG-00224        | 2 x 24                          | 37,000                          | 89.00                 | 5.75              | 2.69 | 72.62     | 48.62       | 2.62 | 3.69 | 11.86       | 11.86       | 24.00 |
| TJEG-21224        | 2 1/2 x 24                      | 60,000                          | 165.00                | 6.50              | 3.12 | 75.80     | 51.80       | 3.06 | 4.44 | 13.56       | 13.78       | 24.00 |
| TJEG-23424        | 2 3/4 x 24                      | 75,000                          | 183.00                | 7.00              | 3.25 | 77.88     | 53.88       | 3.68 | 4.19 | 15.22       | 15.22       | 24.00 |
| Safety Factor 5:1 |                                 |                                 |                       |                   |      |           |             |      |      |             |             |       |

**Federal Specification : FF-T-791B** Other dimensions available upon request.

Forged jaw ends are fitted with bolts and nuts for 1/4" through 5/8",  
and pin cotters on 3/4" through 2 3/4" sizes.

UNC Threading.

Jam Nut : included in sizes 1/4" to 1/2"

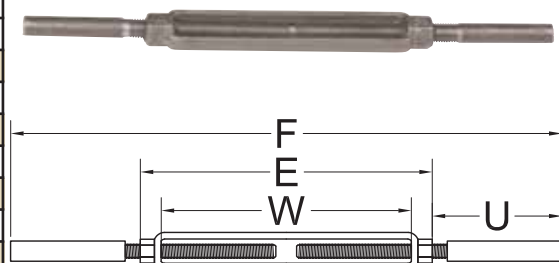


## Stub end Turnbuckles, self colored, drop forged

| Code      | Size<br>Diameter x Take-Up<br>in. | Working Load Limit<br>lbs. | Weight / ea.<br>lbs. | Dimensions<br>in. |      |      |      |
|-----------|-----------------------------------|----------------------------|----------------------|-------------------|------|------|------|
|           |                                   |                            |                      | E                 | F    | U    | W    |
| TSE-03806 | 3/8 x 6                           | 1,200                      | 0.75                 | 7.13              | 16.0 | 4.44 | 6.0  |
| TSE-01206 | 1/2 x 6                           | 2,200                      | 1.25                 | 7.50              | 16.0 | 4.25 | 6.0  |
| TSE-01209 | 1/2 x 9                           | 2,200                      | 1.70                 | 10.50             | 19.0 | 4.25 | 9.0  |
| TSE-05806 | 5/8 x 6                           | 3,500                      | 2.11                 | 7.88              | 16.0 | 4.06 | 6.0  |
| TSE-03406 | 3/4 x 6                           | 5,200                      | 3.27                 | 8.25              | 17.0 | 4.38 | 6.0  |
| TSE-03409 | 3/4 x 9                           | 5,200                      | 3.90                 | 11.25             | 20.0 | 4.38 | 9.0  |
| TSE-03412 | 3/4 x 12                          | 5,200                      | 4.60                 | 14.25             | 23.0 | 4.38 | 12.0 |
| TSE-07806 | 7/8 x 6                           | 7,200                      | 4.78                 | 8.63              | 18.0 | 4.69 | 6.0  |
| TSE-00106 | 1 x 6                             | 10,000                     | 6.36                 | 9.00              | 19.0 | 5.00 | 6.0  |
| TSE-00112 | 1 x 12                            | 10,000                     | 8.80                 | 15.00             | 25.0 | 5.00 | 12.0 |
| TSE-11806 | 1 1/8 x 6                         | 12,400                     | 8.88                 | 9.13              | 19.0 | 4.94 | 6.0  |
| TSE-11406 | 1 1/4 x 6                         | 15,200                     | 10.18                | 9.13              | 20.0 | 5.44 | 6.0  |
| TSE-11412 | 1 1/4 x 12                        | 15,200                     | 13.60                | 15.12             | 26.0 | 5.44 | 12.0 |
| TSE-11206 | 1 1/2 x 6                         | 21,400                     | 15.30                | 9.75              | 20.5 | 5.38 | 6.0  |
| TSE-11212 | 1 1/2 x 12                        | 21,400                     | 20.44                | 15.75             | 26.5 | 5.38 | 12.0 |
| TSE-13406 | 1 3/4 x 6                         | 28,000                     | 30.00                | TBD               | TBD  | TBD  | 6.0  |

Safety Factor 5:1

Federal Specification : FF-T-791B

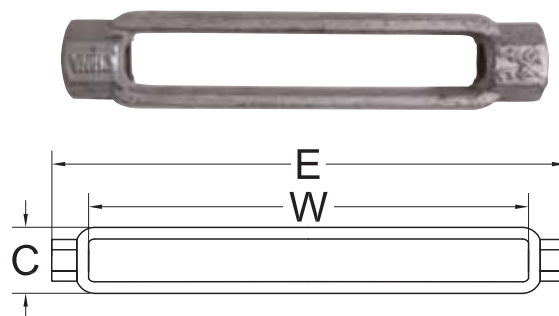


## Turnbuckles (body only) galvanized, drop forged

| Code      | Size<br>Diameter x Take-Up<br>in. | Working Load Limit<br>lbs. | Weight / ea.<br>lbs. | Dimensions<br>in. |       |       |
|-----------|-----------------------------------|----------------------------|----------------------|-------------------|-------|-------|
|           |                                   |                            |                      | C                 | E     | W     |
| TBG-01404 | 1/4 x 4                           | 500                        | 0.15                 | .72               | 4.75  | 4.00  |
| TBG-03806 | 3/8 x 6                           | 1,200                      | 0.29                 | .88               | 7.12  | 6.00  |
| TBG-01206 | 1/2 x 6                           | 2,200                      | 0.60                 | 1.12              | 7.50  | 6.00  |
| TBG-01212 | 1/2 x 12                          | 2,200                      | 1.00                 | 1.12              | 13.50 | 12.00 |
| TBG-05806 | 5/8 x 6                           | 3,500                      | 0.90                 | 1.38              | 7.88  | 6.00  |
| TBG-03406 | 3/4 x 6                           | 5,200                      | 1.30                 | 1.69              | 8.25  | 6.00  |
| TBG-03412 | 3/4 x 12                          | 5,200                      | 2.08                 | 1.69              | 14.25 | 12.00 |
| TBG-00106 | 1 x 6                             | 10,000                     | 2.48                 | 2.25              | 9.00  | 6.00  |
| TBG-00112 | 1 x 12                            | 10,000                     | 3.93                 | 2.25              | 15.00 | 12.00 |
| TBG-11412 | 1 1/4 x 12                        | 15,200                     | 5.25                 | 2.62              | 15.12 | 12.00 |

Safety Factor 5:1

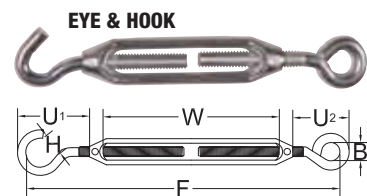
Federal Specification : FF-T-791B Other diameters and/or color available upon request.



## Zinc Die Cast Ben-Mor Turnbuckles

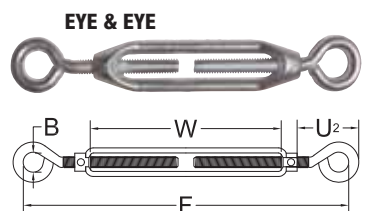
| Code<br>H & E | Thread<br>Diameter x Take-Up<br>in. | Working Load<br>Limit<br>lbs | Weight / ea.<br>lbs | B     | F<br>Closed | H     | U1<br>Closed | U2<br>Closed | W     |
|---------------|-------------------------------------|------------------------------|---------------------|-------|-------------|-------|--------------|--------------|-------|
| THEZ-014218   | 1/4 x 2 1/8                         | 150                          | 0.17                | 0.425 | 4.750       | 0.375 | 0.375        | 0.950        | 2.375 |
| THEZ-516258   | 5/16 x 2 5/8                        | 225                          | 0.25                | 0.425 | 5.750       | 0.445 | 0.445        | 1.300        | 2.625 |
| THEZ-038003   | 3/8 x 3                             | 300                          | 0.41                | 0.500 | 7.250       | 0.750 | 0.750        | 2.170        | 3.000 |

UNC Threading



| Code<br>E & E | Thread<br>Diameter x Take-Up<br>in. | Working Load<br>Limit<br>lbs | Weight / ea.<br>lbs | B     | F<br>Closed | U2<br>Closed | W     |
|---------------|-------------------------------------|------------------------------|---------------------|-------|-------------|--------------|-------|
| TEEZ-014218   | 1/4 x 2 1/8                         | 150                          | 0.17                | 0.425 | 4.750       | 0.970        | 2.375 |
| TEEZ-516258   | 5/16 x 2 5/8                        | 225                          | 0.25                | 0.380 | 6.375       | 1.580        | 2.625 |
| TEEZ-038003   | 3/8 x 3                             | 300                          | 0.41                | 0.500 | 7.125       | 1.800        | 3.000 |

UNC Threading





## Bolt Type Anchor Shackles, rated (drop forged, galvanized)

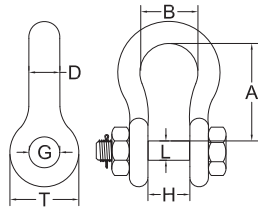
| Code              | Size in. | Working Load Limit Ton | Weight / ea. lbs | Dimensions in. |     |        |       |         |         |      |       |       |
|-------------------|----------|------------------------|------------------|----------------|-----|--------|-------|---------|---------|------|-------|-------|
|                   |          |                        |                  | A              |     | B Min  | D Min | G Max   | H       |      | L Min | T Max |
|                   |          |                        |                  | Nominal        | ±   |        |       |         | Nominal | ±    |       |       |
| SPAS2130BP012     | 1/2      | 2                      | 0.79             | 1 7/8          | 1/8 | 1 3/16 | 1/2   | 23/32   | 13/16   | 1/16 | 5/8   | 1 3/8 |
| SPAS2130BP058     | 5/8      | 3 1/4                  | 1.68             | 2 13/32        | 1/8 | 1 1/2  | 5/8   | 27/32   | 1 1/16  | 1/16 | 3/4   | 1 7/8 |
| SPAS2130BP034     | 3/4      | 4 3/4                  | 2.28             | 2 27/32        | 1/4 | 1 3/4  | 3/4   | 31/32   | 1 1/4   | 1/16 | 7/8   | 2 1/8 |
| SPAS2130BP078     | 7/8      | 6 1/2                  | 3.95             | 3 5/16         | 1/4 | 2      | 7/8   | 1 3/32  | 1 7/16  | 1/16 | 1     | 2 3/8 |
| SPAS2130BP001     | 1        | 8 1/2                  | 6.12             | 3 3/4          | 1/4 | 2 5/16 | 1     | 1 7/32  | 1 11/16 | 1/16 | 1 1/8 | 2 5/8 |
| SPAS2130BP118     | 1 1/8    | 9 1/2                  | 8.27             | 4 1/4          | 1/4 | 2 5/8  | 1 1/8 | 1 11/32 | 1 13/16 | 1/16 | 1 1/4 | 2 7/8 |
| SPAS2130BP114     | 1 1/4    | 12                     | 11.71            | 4 11/16        | 1/4 | 2 7/8  | 1 1/4 | 1 15/32 | 2 1/32  | 1/16 | 1 3/8 | 3 1/4 |
| SPAS2130BP138     | 13/8     | 13 1/2                 | 15.38            | 5 1/4          | 1/4 | 3 1/4  | 1 3/8 | 1 5/8   | 2 1/4   | 1/8  | 1 1/2 | 3 1/2 |
| SPAS2130BP112     | 1 1/2    | 17                     | 20.80            | 5 3/4          | 1/4 | 3 3/8  | 1 1/2 | 1 3/4   | 2 3/8   | 1/8  | 1 5/8 | 3 3/4 |
| SPAS2130BP134     | 1 3/4    | 25                     | 33.91            | 7              | 1/4 | 4 1/2  | 1 3/4 | 2 5/32  | 2 7/8   | 1/8  | 2     | 4 1/2 |
| SPAS2130BP002     | 2        | 35                     | 52.25            | 7 3/4          | 1/2 | 5 1/4  | 2     | 2 13/32 | 3 1/4   | 1/8  | 2 1/4 | 5 1/4 |
| SPAS2130BP212     | 2 1/2    | 55                     | 94.00            | 10 3/16        | 1/2 | 7      | 2 3/4 | 2 13/16 | 4 1/8   | 1/8  | 2 3/4 | 6     |
| Safety Factor 6:1 |          |                        |                  |                |     |        |       |         |         |      |       |       |

**Safety Factor 6:1**

**Federal Specification : RR-C-271D** Other dimensions available upon request.



™ Brown Pin



## Screw Pin Anchor Shackles, rated (drop forged, galvanized)

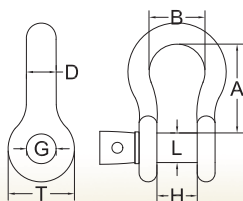
| Code              | Size in. | Working Load Limit Ton | Weight / ea. lbs. | Dimensions in. |      |        |       |         |         |      |       |       |
|-------------------|----------|------------------------|-------------------|----------------|------|--------|-------|---------|---------|------|-------|-------|
|                   |          |                        |                   | A              |      | B Min  | D Min | G Max   | H       |      | L Min | T Max |
|                   |          |                        |                   | Nominal        | ±    |        |       |         | Nominal | ±    |       |       |
| SPASX-BP-316      | 3/16     | 1/3                    | 0.06              | 7/8            | 1/16 | 9/16   | 3/16  | 5/16    | 3/8     | 1/16 | 1/4   | 5/8   |
| SPASX-BP-014      | 1/4      | 1/2                    | 0.10              | 1 1/8          | 1/16 | 3/4    | 1/4   | 13/32   | 15/32   | 1/16 | 5/16  | 7/8   |
| SPASX-BP-516      | 5/16     | 3/4                    | 0.19              | 1 1/4          | 1/16 | 13/16  | 5/16  | 15/32   | 17/32   | 1/16 | 3/8   | 1     |
| SPASX-BP-038      | 3/8      | 1                      | 0.31              | 1 7/16         | 1/8  | 15/16  | 3/8   | 17/32   | 21/32   | 1/16 | 7/16  | 1 1/8 |
| SPASX-BP-716      | 7/16     | 1 1/2                  | 0.38              | 1 11/16        | 1/8  | 1 1/16 | 7/16  | 19/32   | 23/32   | 1/16 | 1/2   | 1 1/4 |
| SPASX-BP-012      | 1/2      | 2                      | 0.72              | 1 7/8          | 1/8  | 1 3/16 | 1/2   | 23/32   | 13/16   | 1/16 | 5/8   | 1 3/8 |
| SPASX-BP-058      | 5/8      | 3 1/4                  | 1.37              | 2 13/32        | 1/8  | 1 1/2  | 5/8   | 27/32   | 1 1/16  | 1/16 | 3/4   | 1 7/8 |
| SPASX-BP-034      | 3/4      | 4 3/4                  | 2.35              | 2 27/32        | 1/4  | 1 3/4  | 3/4   | 31/32   | 1 1/4   | 1/16 | 7/8   | 2 1/8 |
| SPASX-BP-078      | 7/8      | 6 1/2                  | 3.62              | 3 5/16         | 1/4  | 2      | 7/8   | 1 3/32  | 1 7/16  | 1/16 | 1     | 2 3/8 |
| SPASX-BP-001      | 1        | 8 1/2                  | 5.00              | 3 3/4          | 1/4  | 2 5/16 | 1     | 1 7/32  | 1 11/16 | 1/16 | 1 1/8 | 2 5/8 |
| SPASX-BP-118      | 1 1/8    | 9 1/2                  | 7.41              | 4 1/4          | 1/4  | 2 5/8  | 1 1/8 | 1 11/32 | 1 13/16 | 1/16 | 1 1/4 | 2 7/8 |
| SPASX-BP-114      | 1 1/4    | 12                     | 9.50              | 4 11/16        | 1/4  | 2 7/8  | 1 1/4 | 1 15/32 | 2 1/32  | 1/16 | 1 3/8 | 3 1/4 |
| SPASX-BP-138      | 1 3/8    | 13 1/2                 | 13.53             | 5 1/4          | 1/4  | 3 1/4  | 1 3/8 | 1 5/8   | 2 1/4   | 1/8  | 1 1/2 | 3 1/2 |
| SPASX-BP-112      | 1 1/2    | 17                     | 17.20             | 5 3/4          | 1/4  | 3 3/8  | 1 1/2 | 1 3/4   | 2 3/8   | 1/8  | 1 5/8 | 3 3/4 |
| SPASX-BP-134      | 1 3/4    | 25                     | 27.78             | 7              | 1/4  | 4 1/2  | 1 3/4 | 2 5/32  | 2 7/8   | 1/8  | 2     | 4 1/2 |
| SPASX-BP-002      | 2        | 35                     | 45.0              | 7 3/4          | 1/2  | 5 1/4  | 2     | 2 13/32 | 3 1/4   | 1/8  | 2 1/4 | 5 1/4 |
| SPASX-BP-212      | 2 1/2    | 55                     | 85.0              | 10 1/2         | 1/2  | 6 3/4  | 2 1/2 | 2 29/32 | 4 1/8   | 1/8  | 2 3/4 | 6 1/4 |
| Safety Factor 6:1 |          |                        |                   |                |      |        |       |         |         |      |       |       |

**Safety Factor 6:1**

**Federal Specification : RR-C-271D** Other dimensions available upon request.



™ Brown Pin







### Snatch Block with Swivel Hook

| Code              | For cable diameter in. | Pulley Diameter in. | Working Load Limit Ton | Weight ea. lbs |
|-------------------|------------------------|---------------------|------------------------|----------------|
| K4180-002         | 3/8                    | 3                   | 2                      | 2              |
| K4180-004         | 1/2                    | 4 1/2               | 4                      | 12             |
| K4180-008A        | 3/4                    | 6                   | 8                      | 27             |
| K4180-008B        | 3/4                    | 8                   | 8                      | 35             |
| K4180-008C        | 3/4                    | 10                  | 8                      | 50             |
| K4180-015         | 7/8                    | 8                   | 15                     | 58             |
| K4180-020         | 1 1/8                  | 8                   | 20                     | 103            |
| Safety Factor 4:1 |                        |                     |                        |                |



### Snatch Block with Shackle

| Code              | For cable diameter in. | Pulley Diameter in. | Working Load Limit Ton | Weight ea. lbs |
|-------------------|------------------------|---------------------|------------------------|----------------|
| K4190-002         | 3/8                    | 3                   | 2                      | 2              |
| K4190-004         | 1/2                    | 4 1/2               | 4                      | 10             |
| K4190-008A        | 3/4                    | 6                   | 8                      | 31             |
| K4190-008B        | 3/4                    | 8                   | 8                      | 36             |
| K4190-008C        | 3/4                    | 10                  | 8                      | 53             |
| K4190-008D        | 3/4                    | 14                  | 8                      | 81             |
| K4190-015         | 7/8                    | 8                   | 15                     | 64             |
| K4190-020         | 1 1/8                  | 8                   | 20                     | 117            |
| Safety Factor 4:1 |                        |                     |                        |                |



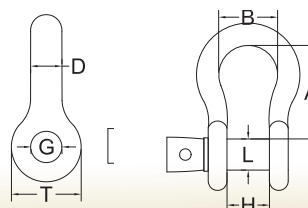
### Toggle Block (Tail Board)

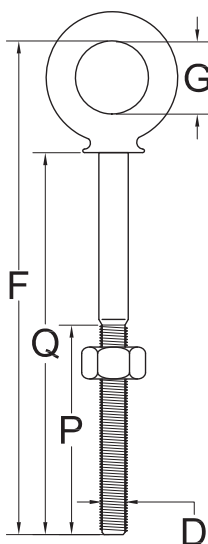
| Code              | For cable diameter in. | Pulley Diameter in. | Working Load Limit Ton | Weight ea. lbs |
|-------------------|------------------------|---------------------|------------------------|----------------|
| K4040-002         | 3/8                    | 3                   | 2                      | 2              |
| K4040-004         | 1/2                    | 4 1/2               | 4                      | 7.5            |
| K4040-008A        | 3/4                    | 6                   | 8                      | 15             |
| K4040-008B        | 3/4                    | 8                   | 8                      | 25             |
| K4040-015         | 7/8                    | 8                   | 15                     | 35             |
| K4040-020         | 1 1/8                  | 8                   | 20                     | 70             |
| Safety Factor 4:1 |                        |                     |                        |                |



### Screw Pin Anchor Shackles, non-rated (galvanized)

| Code              | Size in. | Working Load Limit Ton | Weight / ea. lbs. | Dimensions in. |         |      |       |       |       |        |
|-------------------|----------|------------------------|-------------------|----------------|---------|------|-------|-------|-------|--------|
|                   |          |                        |                   | A              | B       | D    | G     | H     | L     | T      |
| SPAS-316          | 3/16     | 1/4                    | 0.06              | 13/16          | 5/8     | 3/16 | .260  | .400  | 1/4   | 1/2    |
| SPAS-014          | 1/4      | 1/3                    | 0.10              | 1              | 3/4     | 1/4  | .350  | .500  | 5/16  | 9/16   |
| SPAS-516          | 5/16     | 1/2                    | 0.19              | 1 3/16         | 13/16   | 5/16 | .425  | .525  | 3/8   | 11/16  |
| SPAS-038          | 3/8      | 3/4                    | 0.31              | 1 3/8          | 1       | 3/8  | .500  | .675  | 7/16  | 13/16  |
| SPAS-716          | 7/16     | 1                      | 0.38              | 1 5/8          | 1 1/8   | 7/16 | .550  | .750  | 1/2   | 15/16  |
| SPAS-012          | 1/2      | 1 1/2                  | 0.72              | 1 7/8          | 1 1/4   | 1/2  | .660  | .775  | 5/8   | 1 1/16 |
| SPAS-058          | 5/8      | 2 1/4                  | 1.37              | 2 3/8          | 1 11/16 | 5/8  | .610  | 1.000 | 3/4   | 1 3/8  |
| SPAS-034          | 3/4      | 3 1/4                  | 2.35              | 2 5/8          | 2       | 3/4  | .975  | 1.250 | 7/8   | 1 1/2  |
| SPAS-078          | 7/8      | 4 1/3                  | 3.62              | 3              | 2 1/4   | 7/8  | 1.000 | 1.500 | 1     | 1 7/8  |
| SPAS-001          | 1        | 5 1/2                  | 5.00              | 4              | 2 5/8   | 1    | 1.200 | 1.675 | 1 1/8 | 2 1/4  |
| Safety Factor 5:1 |          |                        |                   |                |         |      |       |       |       |        |





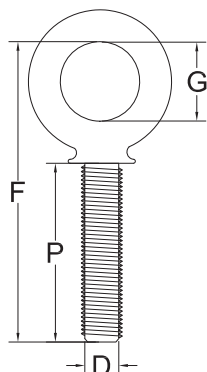
### Shoulder Nut Eye Bolts (galvanized, drop-forged)

| Code        | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |        |       |       |       |
|-------------|-------------------------|-------------------|----------------|--------|-------|-------|-------|
|             |                         |                   | D              | F      | G     | P     | Q     |
| SNEB-014002 | 500                     | 0.07              | 1/4            | 2 3/4  | 1/2   | 1 1/2 | 2     |
| SNEB-014004 | 500                     | 0.09              | 1/4            | 4 3/4  | 1/2   | 2 1/2 | 4     |
| SNEB-516214 | 800                     | 0.12              | 5/16           | 3 1/4  | 5/8   | 1 1/2 | 2 1/4 |
| SNEB-516414 | 800                     | 0.19              | 5/16           | 5 1/4  | 5/8   | 2 1/2 | 4 1/4 |
| SNEB-038212 | 1,200                   | 0.22              | 3/8            | 3 5/8  | 3/4   | 1 1/2 | 2 1/2 |
| SNEB-038412 | 1,200                   | 0.25              | 3/8            | 5 5/8  | 3/4   | 2 1/2 | 4 1/2 |
| SNEB-012314 | 2,200                   | 0.43              | 1/2            | 3 3/4  | 3/4   | 1 1/2 | 3 1/4 |
| SNEB-012006 | 2,200                   | 0.56              | 1/2            | 7 1/2  | 1     | 3     | 6     |
| SNEB-058004 | 3,500                   | 0.70              | 5/8            | 5 7/8  | 1 1/4 | 2     | 4     |
| SNEB-058006 | 3,500                   | 1.00              | 5/8            | 7 7/8  | 1 1/4 | 3     | 6     |
| SNEB-034412 | 5,200                   | 1.44              | 3/4            | 6 3/4  | 1 1/2 | 2     | 4 1/2 |
| SNEB-034006 | 5,200                   | 1.70              | 3/4            | 8 1/4  | 1 1/2 | 3     | 6     |
| SNEB-078005 | 7,200                   | 2.25              | 7/8            | 7 3/4  | 1 3/4 | 2 1/2 | 5     |
| SNEB-001006 | 10,000                  | 3.67              | 1              | 9      | 2     | 3     | 6     |
| SNEB-001009 | 10,000                  | 4.23              | 1              | 12     | 2     | 4     | 9     |
| SNEB-114008 | 15,200                  | 6.50              | 1              | 11 3/4 | 2 1/2 | 4     | 8     |
| SNEB-114012 | 15,200                  | 7.95              | 1 1/4          | 15 3/4 | 2 1/2 | 4     | 12    |
| SNEB-112015 | 21,400                  | 14.25             | 1 1/2          | 19 1/2 | 3     | 6     | 15    |

Safety Factor 5:1

N.B. : UNC Thread

### Shoulder Type Machinery Eye Bolts (self-colored, drop-forged)

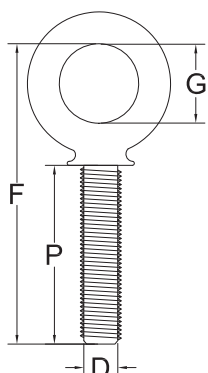


| Code          | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |         |       |       |
|---------------|-------------------------|-------------------|----------------|---------|-------|-------|
|               |                         |                   | D              | F       | G     | P     |
| STEB-014001SC | 500                     | 0.05              | 1/4            | 2 1/8   | 3/4   | 1     |
| STEB-516118SC | 900                     | 0.10              | 5/16           | 2 1/2   | 7/8   | 1 1/8 |
| STEB-038114SC | 1,300                   | 0.16              | 3/8            | 2 15/16 | 1     | 1 1/4 |
| STEB-012112SC | 2,400                   | 0.35              | 1/2            | 3 1/4   | 1 1/8 | 1 1/2 |
| STEB-058134SC | 4,000                   | 0.67              | 5/8            | 4 1/8   | 1 1/4 | 1 3/4 |
| STEB-034002SC | 5,000                   | 1.00              | 3/4            | 4 3/8   | 1 1/2 | 2     |
| STEB-078214SC | 7,000                   | 1.63              | 7/8            | 5 1/8   | 1 3/4 | 2 1/4 |
| STEB-001212SC | 9,000                   | 2.22              | 1              | 5 7/8   | 2     | 2 1/2 |
| STEB-114003SC | 15,000                  | 4.44              | 1 1/4          | 6 7/8   | 2 1/2 | 3     |
| STEB-112312SC | 21,000                  | 7.36              | 1 1/2          | 9 1/8   | 3     | 3 1/2 |

Safety Factor 5:1

N.B. : UNC Thread

### Shoulder Type Machinery Eye Bolts (zinc plated drop-forged)



| Code        | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |         |       |       |
|-------------|-------------------------|-------------------|----------------|---------|-------|-------|
|             |                         |                   | D              | F       | G     | P     |
| STEB-014001 | 500                     | 0.05              | 1/4            | 2 1/8   | 3/4   | 1     |
| STEB-516118 | 900                     | 0.10              | 5/16           | 2 1/2   | 7/8   | 1 1/8 |
| STEB-038114 | 1,300                   | 0.16              | 3/8            | 2 15/16 | 1     | 1 1/4 |
| STEB-012112 | 2,400                   | 0.35              | 1/2            | 3 1/4   | 1 1/8 | 1 1/2 |
| STEB-058134 | 4,000                   | 0.67              | 5/8            | 4 1/8   | 1 1/4 | 1 3/4 |
| STEB-034002 | 5,000                   | 1.00              | 3/4            | 4 3/8   | 1 1/2 | 2     |
| STEB-078214 | 7,000                   | 1.63              | 7/8            | 5 1/8   | 1 3/4 | 2 1/4 |
| STEB-001212 | 9,000                   | 2.22              | 1              | 5 7/8   | 2     | 2 1/2 |
| STEB-114003 | 15,000                  | 4.44              | 1 1/4          | 6 7/8   | 2 1/2 | 3     |
| STEB-112312 | 21,000                  | 7.36              | 1 1/2          | 9 1/8   | 3     | 3 1/2 |

Safety Factor 5:1

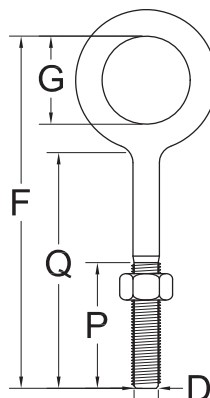
N.B. : UNC Thread



## Regular Nut Eye Bolts (galvanized, drop-forged)

| Code              | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |        |       |       |       |
|-------------------|-------------------------|-------------------|----------------|--------|-------|-------|-------|
|                   |                         |                   | D              | F      | G     | P     | Q     |
| RNEB-014002       | 500                     | 0.08              | 1/4            | 2 3/4  | 1/2   | 1 1/2 | 2     |
| RNEB-014004       | 500                     | 0.12              | 1/4            | 4 3/4  | 1/2   | 2 1/2 | 4     |
| RNEB-516214       | 800                     | 0.13              | 5/16           | 3 1/4  | 5/8   | 1 1/2 | 2 1/4 |
| RNEB-516414       | 800                     | 0.25              | 5/16           | 5 1/4  | 5/8   | 2 1/2 | 4 1/4 |
| RNEB-038212       | 1,200                   | 0.24              | 3/8            | 3 3/4  | 3/4   | 1 1/2 | 2 1/2 |
| RNEB-038412       | 1,200                   | 0.29              | 3/8            | 5 3/4  | 3/4   | 2 1/2 | 4 1/2 |
| RNEB-038006       | 1,200                   | 0.35              | 3/8            | 7 1/4  | 3/4   | 2 1/2 | 6     |
| RNEB-012314       | 2,200                   | 0.50              | 1/2            | 4 7/8  | 1     | 1 1/2 | 3 1/4 |
| RNEB-012006       | 2,200                   | 0.66              | 1/2            | 7 5/8  | 1     | 3     | 6     |
| RNEB-012008       | 2,200                   | 0.82              | 1/2            | 9 5/8  | 1     | 3     | 8     |
| RNEB-012010       | 2,200                   | 0.88              | 1/2            | 11 5/8 | 1     | 3     | 10    |
| RNEB-012012       | 2,200                   | 1.15              | 1/2            | 13 5/8 | 1     | 3     | 12    |
| RNEB-058004       | 3,500                   | 1.03              | 5/8            | 6      | 1 1/4 | 2     | 4     |
| RNEB-058006       | 3,500                   | 1.20              | 5/8            | 8      | 1 1/4 | 3     | 6     |
| RNEB-058008       | 3,500                   | 1.35              | 5/8            | 10     | 1 1/4 | 3     | 8     |
| RNEB-058010       | 3,500                   | 1.53              | 5/8            | 12     | 1 1/4 | 3     | 10    |
| RNEB-058012       | 3,500                   | 1.67              | 5/8            | 14     | 1 1/4 | 4     | 12    |
| RNEB-034412       | 5,200                   | 1.68              | 3/4            | 7      | 1 1/2 | 2     | 4 1/2 |
| RNEB-034006       | 5,200                   | 1.85              | 3/4            | 8 1/2  | 1 1/2 | 3     | 6     |
| RNEB-034008       | 5,200                   | 2.08              | 3/4            | 10 1/2 | 1 1/2 | 3     | 8     |
| RNEB-034010       | 5,200                   | 2.37              | 3/4            | 12 1/2 | 1 1/2 | 3     | 10    |
| RNEB-034012       | 5,200                   | 2.58              | 3/4            | 14 1/2 | 1 1/2 | 4     | 12    |
| RNEB-034015       | 5,200                   | 3.00              | 3/4            | 17 1/2 | 1 1/2 | 5     | 15    |
| RNEB-078005       | 7,200                   | 2.70              | 7/8            | 7 7/8  | 1 3/4 | 2 1/2 | 5     |
| RNEB-078008       | 7,200                   | 3.10              | 7/8            | 10 7/8 | 1 3/4 | 4     | 8     |
| RNEB-078012       | 7,200                   | 4.00              | 7/8            | 14 7/8 | 1 3/4 | 4     | 12    |
| RNEB-001006       | 10,000                  | 4.25              | 1              | 9 1/4  | 2     | 3     | 6     |
| RNEB-001009       | 10,000                  | 4.70              | 1              | 12 1/4 | 2     | 4     | 9     |
| RNEB-001012       | 10,000                  | 5.40              | 1              | 15 1/4 | 2     | 4     | 12    |
| RNEB-001018       | 10,000                  | 6.50              | 1              | 21 1/4 | 2     | 7     | 18    |
| RNEB-114008       | 15,200                  | 7.50              | 1 1/4          | 12 1/8 | 2 1/2 | 4     | 8     |
| RNEB-114012       | 15,200                  | 9.00              | 1 1/4          | 16 1/8 | 2 1/2 | 4     | 12    |
| RNEB-114020       | 15,200                  | 12.1              | 1 1/4          | 24 1/8 | 2 1/2 | 6     | 20    |
| Safety Factor 5:1 |                         |                   |                |        |       |       |       |

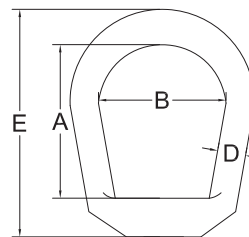
N.B. : UNC Thread



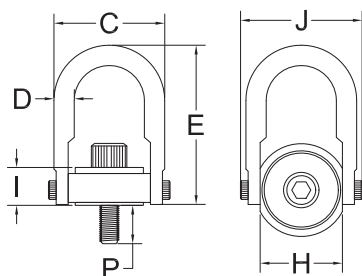
## Eye Nuts (galvanized, drop-forged)

| Code              | Tap Size in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |       |       |       |
|-------------------|--------------|-------------------------|-------------------|----------------|-------|-------|-------|
|                   |              |                         |                   | A              | B     | D     | E     |
| EN-014            | 1/4 - 20     | 520                     | 0.09              | 0.690          | 0.750 | 0.250 | 1.690 |
| EN-516            | 5/16 - 18    | 700                     | 0.11              | 0.690          | 0.750 | 0.250 | 1.690 |
| EN-038            | 3/8 - 16     | 1,250                   | 0.18              | 1.250          | 1.000 | 0.312 | 2.062 |
| EN-012            | 1/2 - 13     | 2,250                   | 0.28              | 1.500          | 1.250 | 0.375 | 2.500 |
| EN-058            | 5/8 - 11     | 3,600                   | 0.58              | 2.000          | 1.500 | 0.500 | 3.187 |
| EN-034            | 3/4 - 10     | 5,200                   | 1.00              | 2.375          | 1.750 | 0.625 | 3.875 |
| EN-078            | 7/8 - 9      | 7,200                   | 1.70              | 2.625          | 2.000 | 0.750 | 4.312 |
| EN-001            | 1            | 10,000                  | 2.75              | 3.065          | 2.155 | 0.910 | 5.050 |
| EN-114            | 1 1/4        | 15,500                  | 3.87              | 3.501          | 2.420 | 1.042 | 5.710 |
| EN-112            | 1 1/2        | 22,000                  | 6.78              | 3.375          | 2.500 | 1.008 | 5.625 |
| Safety Factor 5:1 |              |                         |                   |                |       |       |       |

Also available in stainless steel. Other dimensions available upon request.







## UNC Swivel Hoist Rings

| Code        | Min. Load<br>lbs | Thread  | Dimensions (in.) |       |          |         |         |          |        | Torque<br>ft/lbs | Poids<br>lbs |
|-------------|------------------|---------|------------------|-------|----------|---------|---------|----------|--------|------------------|--------------|
|             |                  |         | C                | D     | E        | H       | I       | J        | P      |                  |              |
| SHR-516332  | 800              | 5/16-13 | 1 5/8            | 3/8   | 2 5/8    | 1       | 45/64   | 1 27/32  | 3/32   | 7                | 0.3          |
| SHR-5161732 | 800              | 5/16-18 | 1 5/8            | 3/8   | 2 5/8    | 1       | 45/64   | 1 27/32  | 17/32  | 7                | 0.3          |
| SHR-0381732 | 1,000            | 3/8-16  | 1 5/8            | 3/8   | 2 5/8    | 1       | 45/64   | 1 27/32  | 17/32  | 12               | 0.3          |
| SHR-0121116 | 2,500            | 1/2-13  | 2 7/16           | 1/2   | 3 3/4    | 1 13/32 | 56/64   | 2 9/16   | 1 1/16 | 26               | 1.0          |
| SHR-012034  | 2,500            | 1/2-13  | 3 1/4            | 3/4   | 4 3/4    | 2       | 1 7/32  | 3 1/2    | 3/4    | 26               | 2.6          |
| SHR-012001  | 2,500            | 1/2-13  | 3 1/4            | 3/4   | 4 3/4    | 2       | 1 7/32  | 3 1/2    | 1      | 28               | 2.6          |
| SHR-012114  | 2,500            | 1/2-13  | 3 1/4            | 3/4   | 4 3/4    | 2       | 1 7/32  | 3 1/2    | 1 1/4  | 28               | 2.6          |
| SHR-058034  | 4,000            | 5/8-11  | 3 1/4            | 3/4   | 4 3/4    | 2       | 1 7/32  | 3 1/2    | 3/4    | 60               | 2.6          |
| SHR-058001  | 4,000            | 5/8-11  | 3 1/4            | 3/4   | 4 3/4    | 2       | 1 7/32  | 3 1/2    | 1      | 60               | 2.6          |
| SHR-058114  | 4,000            | 5/8-11  | 3 1/4            | 3/4   | 4 3/4    | 2       | 1 7/32  | 3 1/2    | 1 1/4  | 60               | 2.6          |
| SHR-034001a | 5,000            | 3/4-10  | 3 1/4            | 3/4   | 4 3/4    | 2       | 1 7/32  | 3 1/2    | 1      | 100              | 3.0          |
| SHR-034112a | 5,000            | 3/4-10  | 3 1/4            | 3/4   | 4 3/4    | 2       | 1 7/32  | 3 1/2    | 1 1/2  | 100              | 3.0          |
| SHR-034001b | 7,000            | 3/4-10  | 4 13/16          | 1     | 6 1/2    | 3       | 1 11/16 | 5 9/16   | 1      | 100              | 7.0          |
| SHR-034112b | 7,000            | 3/4-10  | 4 13/16          | 1     | 6 1/2    | 3       | 1 11/16 | 5 9/16   | 1 1/2  | 100              | 7.0          |
| SHR-078001  | 8,000            | 7/8-9   | 4 13/16          | 1     | 6 1/2    | 3       | 1 11/16 | 5 9/16   | 1      | 160              | 7.0          |
| SHR-001114  | 10,000           | 1-8     | 4 13/16          | 1     | 6 1/2    | 3       | 1 11/16 | 5 9/16   | 1 1/4  | 230              | 7.5          |
| SHR-001112  | 10,000           | 1-8     | 4 13/16          | 1     | 6 1/2    | 3       | 1 11/16 | 5 9/16   | 1 1/2  | 230              | 7.5          |
| SHR-001214  | 10,000           | 1-8     | 4 13/16          | 1     | 6 1/2    | 3       | 1 11/16 | 5 9/16   | 2 1/4  | 230              | 7.5          |
| SHR-114002  | 15,000           | 1 1/4-7 | 5                | 1 1/4 | 8 3/4    | 3 3/4   | 2 7/64  | 6 1/2    | 2      | 470              | 14.0         |
| SHR-112234  | 24,000           | 1 1/2-6 | 8                | 1 3/4 | 12 15/32 | 4 7/8   | 2 13/16 | 8 35/64  | 2 3/4  | 800              | 34.0         |
| SHR-002003  | 30,000           | 2 1/2-4 | 8                | 1 3/4 | 12 15/32 | 4 7/8   | 2 13/16 | 8 35/64  | 3      | 800              | 36.0         |
| SHR-212004  | 50,000           | 2 1/2-4 | 10 1/2           | 2 1/4 | 18 7/8   | 6 1/2   | 4 3/32  | 11 43/64 | 4      | 2,100            | 88.0         |
| SHR-003514  | 75,000           | 3-4     | 13               | 2 3/4 | 19 1/2   | 8 7/64  | 5 17/64 | 14 5/32  | 5 1/4  | 4,300            | 166.0        |
| SHR-312007  | 100,000          | 3 1/2-4 | 14               | 3 1/4 | 22 3/32  | 8 7/64  | 6 1/16  | 15 29/32 | 7      | 5,100            | 265.0        |

Safety Factor 6:1

## Metric Swivel Hoist Rings

| Code       | Min. Load<br>kg | Thread   | Dimensions (mm) |    |     |     |     |     |     | Torque<br>kg-m | Poids<br>kg |
|------------|-----------------|----------|-----------------|----|-----|-----|-----|-----|-----|----------------|-------------|
|            |                 |          | C               | D  | E   | H   | I   | J   | P   |                |             |
| SHR-M08013 | 400             | M8x1.25  | 41              | 10 | 68  | 25  | 18  | 47  | 13  | 0.88           | 0.17        |
| SHR-M10018 | 500             | M10x1.50 | 41              | 10 | 68  | 25  | 18  | 47  | 18  | 1.5            | 0.17        |
| SHR-M12019 | 1,050           | M12x1.75 | 83              | 19 | 121 | 51  | 30  | 89  | 19  | 3.7            | 1.06        |
| SHR-M16029 | 1,900           | M16x2.00 | 83              | 19 | 121 | 51  | 30  | 89  | 29  | 8.4            | 1.12        |
| SHR-M20034 | 2,150           | M20x2.50 | 83              | 19 | 121 | 51  | 30  | 89  | 34  | 14             | 1.19        |
| SHR-M20032 | 3,000           | M20x2.50 | 122             | 25 | 166 | 76  | 43  | 131 | 32  | 14             | 3.03        |
| SHR-M24037 | 4,200           | M24x3.00 | 122             | 25 | 166 | 76  | 43  | 131 | 37  | 31             | 3.10        |
| SHR-M30042 | 7,000           | M30x3.50 | 152             | 32 | 222 | 95  | 54  | 165 | 42  | 60             | 5.30        |
| SHR-M30062 | 7,000           | M30x3.50 | 152             | 32 | 222 | 95  | 54  | 165 | 62  | 60             | 6.40        |
| SHR-M36064 | 11,000          | M36x4.00 | 203             | 44 | 317 | 124 | 71  | 217 | 64  | 100            | 16.60       |
| SHR-M42082 | 12,500          | M42x4.50 | 203             | 44 | 317 | 124 | 71  | 217 | 82  | 100            | 16.80       |
| SHR-M48082 | 13,500          | M48x5.00 | 203             | 44 | 317 | 124 | 71  | 217 | 82  | 100            | 16.80       |
| SHR-M64101 | 22,300          | M64x6.00 | 266             | 57 | 428 | 165 | 103 | 296 | 101 | 273            | 39.0        |
| SHR-M72132 | 31,500          | M72x6.00 | 330             | 70 | 495 | 206 | 133 | 359 | 132 | 559            | 74.0        |
| SHR-M90177 | 44,500          | M90x6.00 | 368             | 83 | 561 | 218 | 153 | 404 | 177 | 663            | 118.0       |

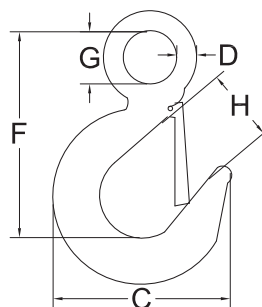
Safety Factor 6:1



### Eye Hooks with latch\* (alloy, zinc plated)

| Code   | Working Load Limit<br>Ton | Weight / ea.<br>lbs. | Dimensions<br>in. |      |       |      |      |
|--------|---------------------------|----------------------|-------------------|------|-------|------|------|
|        |                           |                      | C                 | D    | F     | G    | H    |
| EH-034 | 3/4                       | 0.54                 | 2.54              | .33  | 2.80  | .63  | .81  |
| EH-001 | 1                         | 0.61                 | 2.83              | .36  | 3.34  | .75  | .89  |
| EH-112 | 1 1/2                     | 0.89                 | 3.11              | .42  | 3.81  | .91  | .91  |
| EH-002 | 2                         | 1.44                 | 3.53              | .55  | 4.14  | 1.13 | 1.00 |
| EH-003 | 3                         | 2.07                 | 3.97              | .58  | 4.69  | 1.25 | 1.09 |
| EH-412 | 4 1/2                     | 4.30                 | 4.81              | .72  | 5.77  | 1.56 | 1.36 |
| EH-007 | 7                         | 8.30                 | 6.27              | .90  | 7.37  | 2.00 | 1.61 |
| EH-011 | 11                        | 15.00                | 7.45              | 1.11 | 9.07  | 2.44 | 2.08 |
| EH-015 | 15                        | 21.60                | 8.30              | 1.27 | 10.08 | 2.84 | 2.27 |

**Safety Factor 5:1**

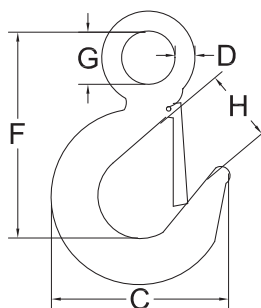


\* Lock nut with Nylon insert nut

### Eye Hooks with latch\* (carbon, zinc plated)

| Code    | Working Load Limit<br>Ton | Weight / ea.<br>lbs. | Dimensions<br>in. |      |       |      |      |
|---------|---------------------------|----------------------|-------------------|------|-------|------|------|
|         |                           |                      | C                 | D    | F     | G    | H    |
| EH-034C | 3/4                       | .61                  | 2.83              | .36  | 3.34  | .75  | .89  |
| EH-001C | 1                         | .89                  | 3.11              | .42  | 3.81  | .91  | .91  |
| EH-112C | 1 1/2                     | 1.44                 | 3.53              | .55  | 4.14  | 1.13 | 1.00 |
| EH-002C | 2                         | 2.07                 | 3.97              | .58  | 4.69  | 1.25 | 1.09 |
| EH-003C | 3                         | 4.30                 | 4.81              | .72  | 5.77  | 1.56 | 1.36 |
| EH-005C | 5                         | 8.30                 | 6.27              | .90  | 7.37  | 2.00 | 1.61 |
| EH-007C | 7                         | 15.00                | 7.45              | 1.11 | 9.07  | 2.44 | 2.08 |
| EH-010C | 10                        | 20.77                | 8.30              | 1.27 | 10.08 | 2.84 | 2.27 |
| EH-015C | 15                        | 39.50                | 10.30             | 1.56 | 12.53 | 3.50 | 3.02 |

**Safety Factor 5:1**

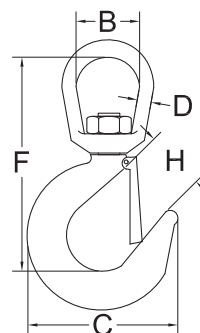


\* Lock nut with Nylon insert nut

### Swivel Hooks with latch\* (alloy, zinc plated)

| Code   | Working Load Limit<br>Ton | Weight / ea.<br>lbs. | Dimensions<br>in. |      |      |       |      |
|--------|---------------------------|----------------------|-------------------|------|------|-------|------|
|        |                           |                      | B                 | C    | D    | F     | H    |
| SH-001 | 1                         | 0.75                 | 1.25              | 2.86 | .38  | 4.55  | .89  |
| SH-112 | 1 1/2                     | 1.25                 | 1.50              | 3.15 | .50  | 5.37  | .91  |
| SH-002 | 2                         | 2.25                 | 1.75              | 3.59 | .63  | 6.12  | 1.00 |
| SH-003 | 3                         | 2.30                 | 1.75              | 4.00 | .63  | 6.50  | 1.09 |
| SH-412 | 4 1/2                     | 4.96                 | 2.00              | 4.84 | .75  | 7.50  | 1.36 |
| SH-007 | 7                         | 10.29                | 2.50              | 6.28 | 1.00 | 9.63  | 1.61 |
| SH-011 | 11                        | 16.18                | 2.75              | 7.54 | 1.13 | 11.37 | 2.08 |
| SH-015 | 15                        | 23.25                | 3.12              | 8.34 | 1.25 | 12.25 | 2.27 |

**Safety Factor 5:1**

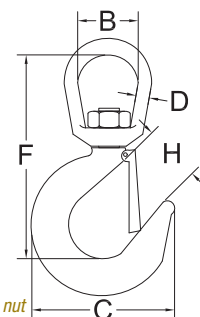


\* Lock nut with Nylon insert nut

### Swivel Hooks with latch\* (carbon, zinc plated)

| Code    | Working Load Limit<br>Ton | Weight / ea.<br>lbs. | Dimensions<br>in. |      |      |      |      |
|---------|---------------------------|----------------------|-------------------|------|------|------|------|
|         |                           |                      | B                 | C    | D    | F    | H    |
| SH-034C | 3/4                       | .75                  | 1.25              | 2.86 | .38  | 4.55 | .89  |
| SH-001C | 1                         | 1.25                 | 1.50              | 3.15 | .50  | 5.37 | .91  |
| SH-112C | 1 1/2                     | 2.25                 | 1.75              | 3.59 | .63  | 6.12 | 1.00 |
| SH-002C | 2                         | 2.30                 | 1.75              | 4.00 | .63  | 6.50 | 1.09 |
| SH-003C | 3                         | 4.96                 | 2.00              | 4.84 | .75  | 7.50 | 1.36 |
| SH-005C | 5                         | 10.29                | 2.50              | 6.28 | 1.00 | 9.63 | 1.61 |

**Safety Factor 5:1**



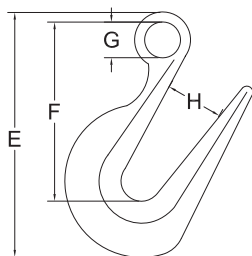
\* Lock nut with Nylon insert nut

### Safety Latch Kits (stainless steel)

| Code       | For hooks with capacity<br>Carbon & alloy<br>Ton | Weight / ea.<br>lbs. |
|------------|--------------------------------------------------|----------------------|
| SS4055-012 | 1/2 & 3/4                                        | 0.01                 |
| SS4055-034 | 3/4 & 1                                          | 0.02                 |
| SS4055-001 | 1 & 1 1/2                                        | 0.02                 |
| SS4055-112 | 1 1/2 & 2                                        | 0.03                 |
| SS4055-002 | 2 & 3                                            | 0.03                 |

| Code       | For hooks with capacity<br>Carbon & alloy<br>Ton | Weight / ea.<br>lbs. |
|------------|--------------------------------------------------|----------------------|
| SS4055-003 | 3 & 4 1/2                                        | 0.06                 |
| SS4055-005 | 5 & 7                                            | 0.11                 |
| SS4055-712 | 7 1/2 & 11                                       | 0.17                 |
| SS4055-010 | 10 & 15                                          | 0.17                 |





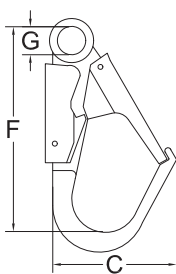
## Sorting Hooks (alloy)

| Code     | Working Load Limit at bottom Ton | Working Load Limit at tip of hook Ton | Style     | Weight / ea. lbs. | Dimensions in. |       |      |      |
|----------|----------------------------------|---------------------------------------|-----------|-------------------|----------------|-------|------|------|
|          |                                  |                                       |           |                   | E              | F     | G    | H    |
| A378-002 | 7 1/2                            | 2                                     | No handle | 6.42              | 9.69           | 7.375 | 1.38 | 2.81 |

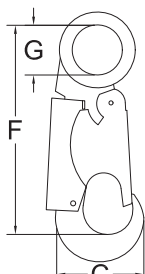
**Safety Factor 4:1**



BM-5316



BM-5315



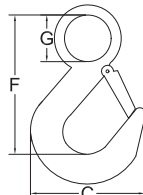
## Eye Slip Tow and Lanyard Hooks (zinc plated steel)

| Code    | Inside Eye Diameter in. | Throat opening in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |       |      |
|---------|-------------------------|--------------------|-------------------------|-------------------|----------------|-------|------|
|         |                         |                    |                         |                   | C              | F     | G    |
| BM-BC53 | 3/4                     | 1/2                | 800                     | 0.33              | 1.771          | 2.553 | 0.75 |
| BM-5555 | 3/4                     | 5/8                | 1,500                   | 0.45              | 2.172          | 2.827 | 0.75 |
| BM-5315 | 1                       | 5/8                | 1,000                   | 0.61              | 2.321          | 4.435 | 1.00 |
| BM-5316 | 1                       | 1 3/4              | 1,000                   | 0.89              | 3.919          | 7.000 | 1.00 |

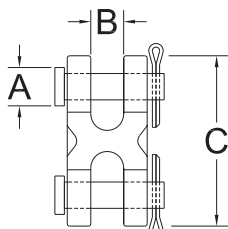
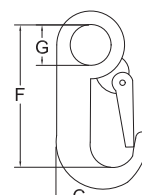
**Safety Factor 5:1**



BM-5555



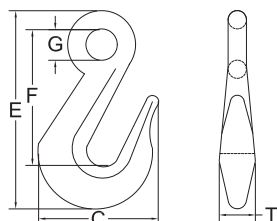
BM-BC53



## Double Clevis Chain Midlink (Gr. 70 gold chromate)

| Code    | For Chain Diameter in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |      |      |
|---------|------------------------|-------------------------|-------------------|----------------|------|------|
|         |                        |                         |                   | A              | B    | C    |
| 70991-B | 5/16                   | 4,700                   | 0.32              | 3/8            | 7/16 | 2.50 |
| 70992-B | 3/8                    | 6,600                   | 0.44              | 1/2            | 1/2  | 2.81 |
| 70993-B | 1/2                    | 11,250                  | 1.00              | 5/8            | 5/8  | 3.62 |

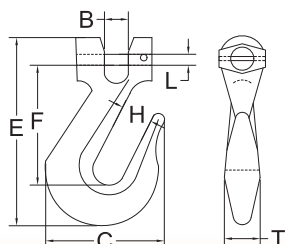
**Safety Factor 4:1**



## Eye Grab Hooks (Gr. 40 zinc plated)

| Code      | For Chain Diameter in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |      |      |     |     |
|-----------|------------------------|-------------------------|-------------------|----------------|------|------|-----|-----|
|           |                        |                         |                   | C              | E    | F    | G   | T   |
| EGH40-014 | 1/4                    | 2,600                   | 0.28              | 1.81           | 3.05 | 1.88 | .53 | .47 |
| EGH40-516 | 5/16                   | 3,900                   | 0.45              | 2.12           | 3.59 | 2.28 | .62 | .59 |
| EGH40-038 | 3/8                    | 5,400                   | 0.79              | 2.53           | 4.28 | 2.69 | .75 | .72 |

**Safety Factor 4:1**



## Clevis Grab Hooks (Gr. 40, zinc plated)

| Code      | For Chain Diameter in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |      |      |      |     |     |
|-----------|------------------------|-------------------------|-------------------|----------------|------|------|------|-----|-----|
|           |                        |                         |                   | B              | C    | E    | F    | L   | T   |
| CGH40-014 | 1/4                    | 2,600                   | 0.38              | .32            | 1.81 | 3.05 | 1.64 | .31 | .47 |
| CGH40-516 | 5/16                   | 3,900                   | 0.70              | .43            | 2.12 | 3.66 | 2.02 | .38 | .59 |
| CGH40-038 | 3/8                    | 5,400                   | 1.04              | .48            | 2.53 | 4.42 | 2.41 | .44 | .72 |
| CGH40-716 | 7/16                   | 7,200                   | 1.31              | .66            | 3.09 | 4.94 | 2.75 | .56 | .69 |
| CGH40-012 | 1/2                    | 9,200                   | 2.06              | .57            | 3.56 | 5.72 | 3.19 | .63 | .78 |

**Safety Factor 4:1**

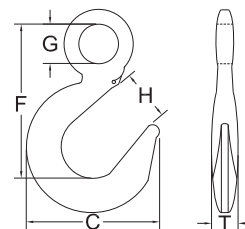




### Eye Slip Hooks (Gr. 40 zinc plated)

| Code      | For Chain Diameter in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |      |     |      |     |
|-----------|------------------------|-------------------------|-------------------|----------------|------|-----|------|-----|
|           |                        |                         |                   | C              | F    | G   | H    | T   |
| ESH40-014 | 1/4                    | 1,950                   | 0.40              | 2.75           | 2.56 | .50 | .94  | .50 |
| ESH40-516 | 5/16                   | 2,875                   | 0.70              | 3.06           | 2.95 | .63 | 1.06 | .56 |
| ESH40-038 | 3/8                    | 4,000                   | 1.00              | 3.63           | 3.36 | .72 | 1.31 | .66 |
| ESH40-012 | 1/2                    | 6,900                   | 2.00              | 4.81           | 4.28 | .94 | 1.69 | .91 |

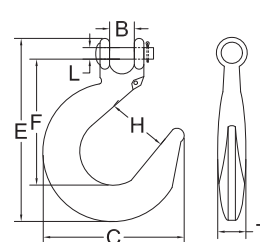
Safety Factor 4:1



### Clevis Slip Hooks (Gr. 40, zinc plated)

| Code      | For Chain Diameter in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |      |      |      |      |     |     |  |
|-----------|------------------------|-------------------------|-------------------|----------------|------|------|------|------|-----|-----|--|
|           |                        |                         |                   | B              | C    | E    | F    | H    | L   | T   |  |
| CSH40-014 | 1/4                    | 1,950                   | 0.50              | .32            | 2.75 | 3.95 | 2.58 | .94  | .38 | .50 |  |
| CSH40-516 | 5/16                   | 2,875                   | 0.75              | .43            | 3.06 | 4.52 | 2.87 | 1.06 | .44 | .56 |  |
| CSH40-038 | 3/8                    | 4,000                   | 1.13              | .45            | 3.63 | 5.15 | 3.25 | 1.31 | .47 | .66 |  |
| CSH40-716 | 7/16                   | 5,000                   | 2.06              | .59            | 4.34 | 5.97 | 3.70 | 1.56 | .56 | .81 |  |
| CSH40-012 | 1/2                    | 6,000                   | 2.75              | .57            | 4.81 | 6.53 | 4.00 | 1.69 | .63 | .91 |  |

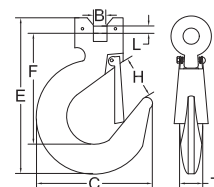
Safety Factor 4:1



### Clevis Slip Hooks (Gr. 70, gold chromate)

| Code without latch | Code with latch | For Chain Diameter in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |      |      |      |      |     |     |
|--------------------|-----------------|------------------------|-------------------------|-------------------|----------------|------|------|------|------|-----|-----|
|                    |                 |                        |                         |                   | B              | C    | E    | F    | H    | L   | T   |
| CSH70-014          | CSH70L-014      | 1/4                    | 2,750                   | 0.50              | .32            | 2.75 | 3.95 | 2.58 | .94  | .38 | .50 |
| CSH70-516          | CSH70L-516      | 5/16                   | 4,300                   | 0.75              | .43            | 3.06 | 4.52 | 2.87 | 1.06 | .44 | .56 |
| CSH70-038          | CSH70L-038      | 3/8                    | 5,250                   | 1.13              | .45            | 3.63 | 5.15 | 3.25 | 1.31 | .47 | .66 |
| CSH70-716          | CSH70L-716      | 7/16                   | 7,000                   | 2.06              | .59            | 4.34 | 5.97 | 3.70 | 1.56 | .56 | .81 |
| CSH70-012          | CSH70L-012      | 1/2                    | 9,000                   | 2.75              | .57            | 4.81 | 6.53 | 4.00 | 1.69 | .63 | .91 |

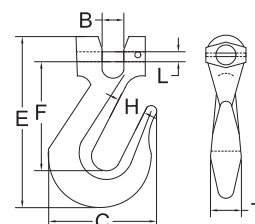
Safety Factor 4:1



### Clevis Grab Hooks (Gr. 70, gold chromate)

| Code      | For Chain Diameter in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |      |      |      |     |      |     |     |
|-----------|------------------------|-------------------------|-------------------|----------------|------|------|------|-----|------|-----|-----|
|           |                        |                         |                   | B              | C    | E    | F    | H   | J    | L   | T   |
| CGH70-014 | 1/4                    | 3,150                   | 0.38              | .32            | 1.81 | 3.05 | 1.64 | .34 | .72  | .31 | .47 |
| CGH70-516 | 5/16                   | 4,700                   | 0.70              | .43            | 2.12 | 3.66 | 2.02 | .44 | .91  | .38 | .59 |
| CGH70-038 | 3/8                    | 6,600                   | 1.04              | .48            | 2.53 | 4.42 | 2.41 | .50 | 1.00 | .44 | .72 |
| CGH70-012 | 1/2                    | 11,300                  | 2.06              | .57            | 3.56 | 5.72 | 3.19 | .66 | 1.25 | .63 | .78 |

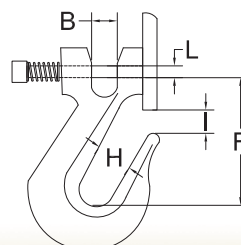
Safety Factor 4:1

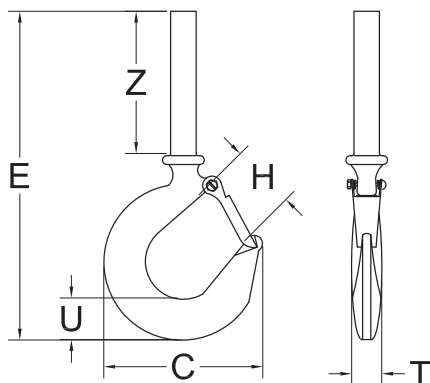


### Clevis Grab Hooks with latch (Gr. 70, gold chromate)

| Code       | For Chain Diameter in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |       |       |       |       |
|------------|------------------------|-------------------------|-------------------|----------------|-------|-------|-------|-------|
|            |                        |                         |                   | B              | F     | H     | I     | L     |
| CGH70L-014 | 1/4                    | 3,150                   | 0.64              | 0.354          | 1.970 | 0.394 | 0.394 | 0.378 |
| CGH70L-516 | 5/16                   | 4,700                   | 0.96              | 0.394          | 2.260 | 0.433 | 0.492 | 0.433 |
| CGH70L-038 | 3/8                    | 6,600                   | 1.34              | 0.472          | 2.630 | 0.500 | 0.413 | 0.472 |
| CGH70L-012 | 1/2                    | 11,300                  | 2.75              | 0.752          | 3.189 | 0.661 | 0.701 | 0.630 |

Safety Factor 4:1



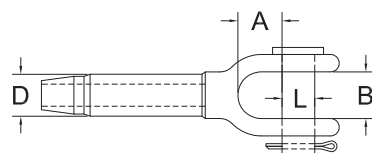


### Shank Hooks, with latch (carbon)

| Code       | Working Load Limit Ton | Weight / ea. lbs. | Dimensions in. |      |     |     |     |      |
|------------|------------------------|-------------------|----------------|------|-----|-----|-----|------|
|            |                        |                   | C              | E    | H   | T   | U   | Z    |
| S319CH-034 | 3/4                    | .50               | 2.86           | 5.14 | .93 | .63 | .73 | 2.06 |

**Safety Factor 5:1**

### Open Swage Sockets (forged steel)



| Code     | For cable diameter in. | Weight ea. lbs. | Dimensions in. |       |                |               |      |
|----------|------------------------|-----------------|----------------|-------|----------------|---------------|------|
|          |                        |                 | A              | B     | D Before swage | D After swage | L    |
| S501-014 | 1/4                    | 0.57            | 1.156          | 11/16 | .495           | .438          | .688 |
| S501-516 | 5/16                   | 1.24            | 1.344          | 13/16 | .770           | .688          | .812 |
| S501-038 | 3/8                    | .120            | 1.344          | 13/16 | .770           | .688          | .812 |
| S501-716 | 7/16                   | 2.45            | 1.500          | 1     | .982           | .875          | 1.00 |
| S501-012 | 1/2                    | 2.40            | 1.500          | 1     | .982           | .875          | 1.00 |
| S501-916 | 9/16                   | 4.80            | 1.655          | 1 1/4 | 1.26           | 1.13          | 1.19 |
| S501-058 | 5/8                    | 4.50            | 1.655          | 1 1/4 | 1.26           | 1.13          | 1.19 |
| S501-034 | 3/4                    | 7.80            | 2.150          | 1 1/2 | 1.55           | 1.38          | 1.38 |
| S501-078 | 7/8                    | 11.80           | 2.435          | 1 3/4 | 1.70           | 1.50          | 1.63 |
| S501-001 | 1                      | 17.80           | 2.750          | 2     | 1.98           | 1.75          | 2.00 |
| S501-118 | 1 1/8                  | 28.90           | 3.125          | 2 1/4 | 2.25           | 2.00          | 2.25 |
| S501-114 | 1 1/4                  | 36.20           | 3.500          | 2 1/2 | 2.53           | 2.25          | 2.50 |
| S501-138 | 1 3/8                  | 47.70           | 4.00           | 2 1/2 | 2.80           | 2.50          | 2.50 |
| S501-112 | 1 1/2                  | 64.40           | 4.375          | 3     | 3.08           | 2.75          | 2.75 |

## ISO 9001:2000

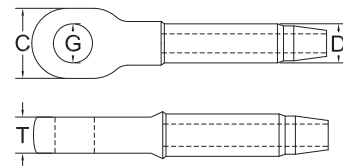
### Quality at Ben-Mor ...

- A **Quality management system** insuring to our customers the highest level of quality in our services and products;
- Management by **process**;
- Systematic receiving **inspection** and testing of all merchandise to insure that all products are up to the specs in place;
- Periodic **evaluation** of all our suppliers;
- All products managed by a unique and efficient **traceability** system;
- Rigorous **inspections** executed by a team of experts throughout the process;
- All the essential **equipment** for an efficient quality control, including a 225,000 lbs capacity test bench.
- Rigorous **calibration** of all production and control equipment;
- Continuous **training** of our employees;
- A multidisciplinary team offering complete and professional technical **support**;
- The **involvement** of all employees in our quality management system.



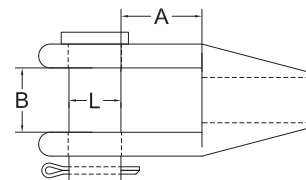
### Closed Swage Sockets (forged steel)

| Code     | For cable diameter in. | Weight ea. lbs. | Dimensions in. |                |               |      |        |
|----------|------------------------|-----------------|----------------|----------------|---------------|------|--------|
|          |                        |                 | C              | D Before swage | D After swage | G    | T      |
| S502-014 | 1/4                    | 0.35            | 1 7/16         | .495           | .438          | .750 | 1/2    |
| S502-516 | 5/16                   | 0.77            | 1 11/16        | .770           | .688          | .875 | 11/16  |
| S502-038 | 3/8                    | 0.73            | 1 11/16        | .770           | .688          | .875 | 11/16  |
| S502-716 | 7/16                   | 1.47            | 2              | .982           | .875          | 1.06 | 7/8    |
| S502-012 | 1/2                    | 1.38            | 2              | .982           | .982          | 1.06 | 7/8    |
| S502-916 | 9/16                   | 2.90            | 2 1/2          | 1.26           | 1.13          | 1.25 | 1 1/8  |
| S502-058 | 5/8                    | 2.80            | 2 1/2          | 1.26           | 1.13          | 1.25 | 1 1/8  |
| S502-034 | 3/4                    | 5.16            | 3              | 1.55           | 1.38          | 1.44 | 1 5/16 |
| S502-078 | 7/8                    | 7.40            | 3 1/2          | 1.70           | 1.50          | 1.69 | 1 1/2  |
| S502-001 | 1                      | 11.20           | 4              | 1.98           | 1.75          | 2.06 | 1 3/4  |
| S502-118 | 1 1/8                  | 16.00           | 4 1/2          | 2.25           | 2.00          | 2.31 | 2      |
| S502-114 | 1 1/4                  | 22.70           | 5              | 2.53           | 2.25          | 2.56 | 2 1/4  |
| S502-138 | 1 3/8                  | 29.00           | 5 1/4          | 2.80           | 2.50          | 2.56 | 2 1/4  |
| S502-112 | 1 1/2                  | 37.50           | 5 1/2          | 3.08           | 2.75          | 2.81 | 2 1/2  |



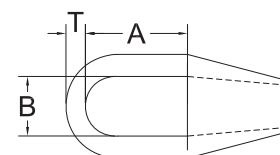
### Open Spelter Sockets (forged steel, galvanized)

| Code     | For cable diameter in. | (G416 - G417) Wirelock Req. cc | Weight ea. lbs. | Dimensions in. |       |        |
|----------|------------------------|--------------------------------|-----------------|----------------|-------|--------|
|          |                        |                                |                 | A              | B     | L      |
| G416-014 | 1/4                    | 9                              | 0.90            | 1.219          | 11/16 | 11/16  |
| G416-516 | 5/16                   | 17                             | 1.30            | 1.344          | 13/16 | 13/16  |
| G416-038 | 3/8                    | 17                             | 1.30            | 1.344          | 13/16 | 13/16  |
| G416-716 | 7/16                   | 35                             | 2.30            | 1.000          | 1     | 1      |
| G416-012 | 1/2                    | 35                             | 2.30            | 1.000          | 1     | 1      |
| G416-916 | 9/16                   | 52                             | 3.90            | 1.313          | 1 1/4 | 1 3/16 |
| G416-058 | 5/8                    | 52                             | 3.90            | 1.313          | 1 1/4 | 1 3/16 |
| G416-034 | 3/4                    | 86                             | 6.00            | 1.625          | 1 1/2 | 1 3/8  |
| G416-078 | 7/8                    | 125                            | 10.00           | 1.875          | 1 3/4 | 1 5/8  |
| G416-001 | 1                      | 160                            | 15.50           | 2.000          | 2     | 2      |
| G416-118 | 1 1/8                  | 210                            | 24.00           | 2.250          | 2 1/4 | 2 1/4  |
| G416-114 | 1 1/4                  | 350                            | 32.00           | 2.250          | 2 1/2 | 2 1/2  |
| G416-138 | 1 3/8                  | 350                            | 32.00           | 2.250          | 2 1/2 | 2 1/2  |
| G416-112 | 1 1/2                  | 420                            | 46.00           | 3.625          | 3     | 2 3/4  |



### Closed Spelter Sockets (forged steel, galvanized)

| Code     | For cable diameter in. | (G416 - G417) Wirelock Req. cc | Weight ea. lbs. | Dimensions in. |         |       |      |
|----------|------------------------|--------------------------------|-----------------|----------------|---------|-------|------|
|          |                        |                                |                 | A              | B       | C     | T    |
| G417-014 | 1/4                    | 9                              | 0.50            | 2              | 1 7/16  | 0.438 | 0.50 |
| G417-516 | 5/16                   | 17                             | 1.00            | 2              | 1 11/16 | 0.563 | 0.69 |
| G417-038 | 3/8                    | 17                             | 1.00            | 2              | 1 11/16 | 0.563 | 0.69 |
| G417-716 | 7/16                   | 35                             | 1.80            | 2 1/2          | 2       | 0.689 | 0.88 |
| G417-012 | 1/2                    | 35                             | 1.80            | 2 1/2          | 2       | 0.689 | 0.88 |
| G417-916 | 9/16                   | 52                             | 3.40            | 3              | 2 5/8   | 0.813 | 1.00 |
| G417-058 | 5/8                    | 52                             | 3.40            | 3              | 2 5/8   | 0.813 | 1.00 |
| G417-034 | 3/4                    | 86                             | 5.10            | 3 1/2          | 3       | 1.063 | 1.25 |
| G417-078 | 7/8                    | 125                            | 7.80            | 4              | 3 5/8   | 1.313 | 1.50 |
| G417-001 | 1                      | 160                            | 12.00           | 4 1/2          | 4 1/8   | 1.438 | 1.75 |
| G417-118 | 1 1/8                  | 210                            | 16.00           | 5              | 4 1/2   | 1.563 | 2.00 |
| G417-114 | 1 1/4                  | 350                            | 23.00           | 5 1/2          | 5       | 1.689 | 2.25 |
| G417-138 | 1 3/8                  | 350                            | 23.00           | 5 1/2          | 5       | 1.689 | 2.25 |
| G417-112 | 1 1/2                  | 420                            | 28.00           | 6              | 5 3/8   | 2.00  | 2.50 |



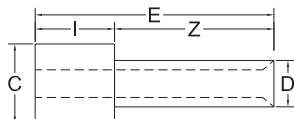




## Ben-Mor Single Shank Balls

| Code         | For cable diameter in. | Minimum Breaking Strength lbs. | Material          | C    | D    | E     | I    | Z     |
|--------------|------------------------|--------------------------------|-------------------|------|------|-------|------|-------|
| BM20664C3    | 3/32                   | 500                            | Zinc              | .285 | .187 | .650  | .168 | .477  |
| BM20664C4    | 1/8                    | 800                            | Zinc              | .370 | .312 | 1.004 | .266 | .735  |
| BM20664C4I   | 1/8                    | 1,200                          | Zinc              | .400 | .269 | .700  | .208 | .483  |
| BM20664C4BAT | 1/8                    | 2,000                          | Zinc plated steel | .375 | .252 | 1.383 | .256 | 1.114 |
| BM20664C6    | 3/16                   | 3,500                          | Zinc plated steel | .437 | .313 | 1.444 | .997 | .435  |

Plain balls and double shank balls (military specs.) available upon request.



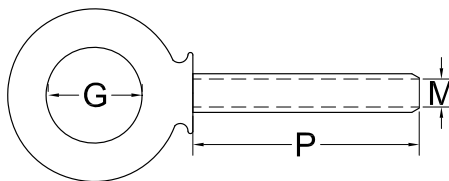
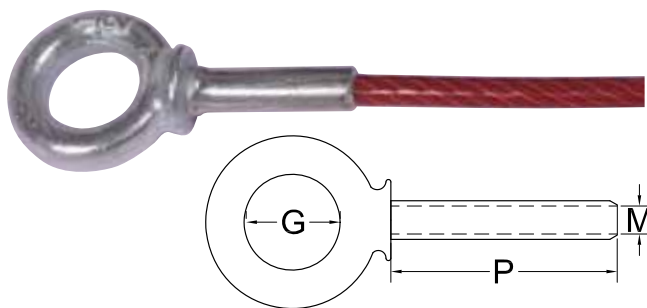
## Eye Bolts shoulder-drilled (zinc plated, drop-forged)

| Code     | For cable diameter in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |   |      |     |
|----------|------------------------|-------------------------|-------------------|----------------|---|------|-----|
|          |                        |                         |                   | D              | G | M    | P   |
| BM-55830 | 1/4                    | 1200                    | 0.35              | 1/2            | 1 | .275 | 1.7 |

Safety Factor 5:1

Other dimensions available upon request

See Shoulder Type Machinery Eye Bolt for dimensions (page 36)

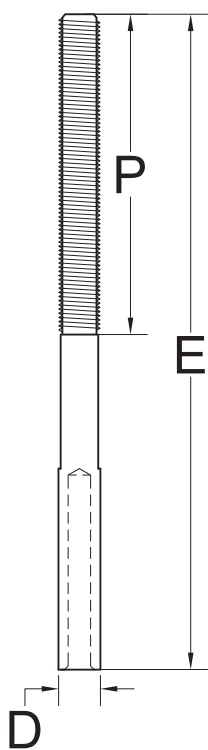


## Ben-Mor Threaded Studs

| Code          | For cable diameter in. | Threads size UNC | Dimensions in. |        |       | Finish |
|---------------|------------------------|------------------|----------------|--------|-------|--------|
|               |                        |                  | D Before swage | E      | P     |        |
| BM21259-014f  | 3/32                   | 1/4 - 20         | 1/4            | 2 9/16 | 1 1/2 | ZP     |
| BM21259-014b  | 1/8                    | 1/4 - 20         | 1/4            | 2 1/2  | 1/2   | ZP     |
| BM21259-014c  | 1/8                    | 1/4 - 20         | 1/4            | 2 9/16 | 1 1/2 | ZP     |
| BM21259-014e  | 1/8                    | 1/4 - 20         | 1/4            | 3 3/4  | 1 1/2 | ZP     |
| BM21259-516a  | 1/8                    | 5/16 - 18        | 5/16           | 2 3/4  | 1 3/4 | ZP     |
| BM21259-516b  | 1/8                    | 5/16 - 18        | 5/16           | 4 1/2  | 3     | ZP     |
| BM21259-038a  | 1/8                    | 3/8 - 16         | 3/8            | 3      | 1 1/2 | ZP     |
| BM21259-038b  | 3/16                   | 3/8 - 16         | 1/2            | 3      | 1 1/2 | ZP     |
| BM21259-012a  | 1/4                    | 1/2 - 13         | 5/8            | 4 1/2  | 2 1/2 | ZP     |
| BM21259-058a  | 5/16                   | 5/8 - 11         | 3/4            | 6 1/2  | 3 1/2 | ZP     |
| BM21259-058b  | 5/16                   | 5/8 - 11         | 3/4            | 8      | 5     | ZP     |
| BM21259-058c  | 3/8                    | 5/8 - 11         | 7/8            | 9      | 6     | ZP     |
| BM21259-034a  | 3/8                    | 3/4 - 10         | 3/4            | 8      | 5     | ZP     |
| BM21259-014L  | 1/8                    | 1/4 - 28         | 0.250          | 1.36   | 3/8   | SS     |
| BM21259-038c  | 1/4                    | 3/8 - 16         | 0.500          | 8      | 5     | SS     |
| BM21259-012AB | 1/4                    | 1/2 - 13         | 0.625          | 6      | 4     | SS     |
| BM21259-012AK | 3/8                    | 1/2 - 13         | 0.700          | 5.775  | 1     | ZP     |
| BM21259-058AG | 5/16                   | 5/8 - 11         | 0.750          | 3 1/2  | 1     | SS     |
| BM21259-034X  | 3/8                    | 3/4 - 10         | 0.750          | 13 5/8 | 5 1/4 | Steel  |
| BM21259-034Y  | 3/8                    | 3/4 - 10         | 0.750          | 5 1/8  | 1 5/8 | Steel  |

Available on request : Stainless steel, Left-Hand thread, metric thread, fine thread. Custom made for cables up to 1 1/2".

Other dimensions available upon request.

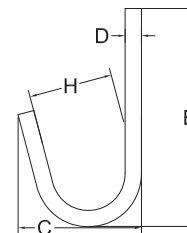




## Stake Hooks

| Code      | For cable diameter<br>in. | Weight ea.<br>lbs. | Dimensions<br>in. |                   |                  |   |       |
|-----------|---------------------------|--------------------|-------------------|-------------------|------------------|---|-------|
|           |                           |                    | C                 | D<br>Before swage | D<br>After swage | E | H     |
| BM100-009 | 1/8                       | 0.220              | 1 3/16            | 0.250             | 0.210            | 2 | 0.625 |

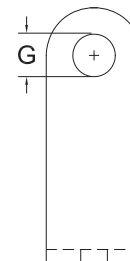
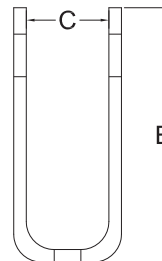
Available in zinc plated steel.



## Ben-Mor Strap Forks

| Code    | For cable diameter<br>in. | Weight ea.<br>lbs. | Dimensions<br>in. |     |       |
|---------|---------------------------|--------------------|-------------------|-----|-------|
|         |                           |                    | C                 | E   | G     |
| BM-6241 | 1/16                      | 0.011              | 0.400             | 3/4 | 0.187 |
| BM-6240 | 1/8                       | 0.117              | 0.875             | 2   | 0.405 |

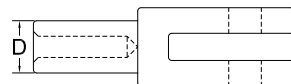
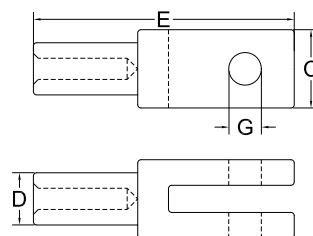
Available in steel natural finish and zinc plated.



## Ben-Mor Forks

| Code      | For cable diameter<br>in. | Weight ea.<br>lbs. | Dimensions<br>in. |                   |                  |       |        |
|-----------|---------------------------|--------------------|-------------------|-------------------|------------------|-------|--------|
|           |                           |                    | C                 | D<br>Before swage | D<br>After swage | E     | G      |
| BM100-058 | 3/16                      | 0.2045             | 3/4               | 0.501             | 0.460            | 2 1/2 | 0.3125 |
| BM100-031 | 3/8                       | 0.549              | 1                 | 0.842             | 0.775            | 4 1/2 | 0.4375 |
| BM100-094 | 7/16                      | 0.507              | 1                 | 0.840             | 0.775            | 4 1/2 | 0.4375 |
| BM100-026 | 3/8                       | 1.069              | 1                 | 0.840             | 0.775            | 7 1/2 | 0.500  |

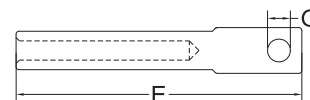
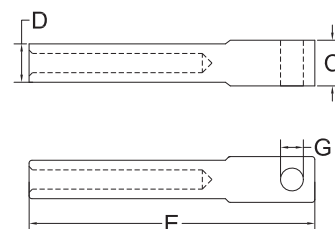
Available in steel natural finish and zinc plated. Custom made for cables up to 1 1/2". Other dimensions available upon request.



## Ben Mor Eye Ends

| Code      | For cable diameter<br>in. | Weight ea.<br>lbs. | Dimensions<br>in. |                   |                  |       |       |
|-----------|---------------------------|--------------------|-------------------|-------------------|------------------|-------|-------|
|           |                           |                    | C                 | D<br>Before swage | D<br>After swage | E     | G     |
| BM100-028 | 3/8                       | 0.875              | 1                 | 0.838             | 0.775            | 6 1/4 | 0.500 |

Available in steel natural finish and zinc plated. Other dimensions available upon request.





### Double Lock Snaps

| Code  | Eye Dimension in. | Length in. | Finish              | Qty Ctn |
|-------|-------------------|------------|---------------------|---------|
| 70822 | n/a               | 4          | Zinc, nickel plated | 6       |
| 70833 | n/a               | 3 1/2      | Zinc, nickel plated | 6       |
| 70834 | n/a               | 3 1/2      | Brass               | 6       |
| 70835 | n/a               | 4 1/2      | Brass               | 6       |



### Scissor Snaps

| Code  | Eye Dimension in. | Length in. | Finish              | Qty Ctn |
|-------|-------------------|------------|---------------------|---------|
| 70819 | 5/8               | 2 1/2      | Zinc, nickel plated | 12      |
| 70836 | 3/8               | 2 1/2      | Zinc, nickel plated | 12      |
| 70837 | 1/2               | 2 1/2      | Zinc, nickel plated | 12      |
| 70838 | 3/4               | 4          | Zinc, nickel plated | 12      |
| 70839 | 1/2               | 2 1/2      | Brass               | 12      |



### Swivel Snaps

| Code  | Eye Dimension in. | Length in. | Finish                          | Qty Ctn |
|-------|-------------------|------------|---------------------------------|---------|
| 70824 | 1                 | 3 3/4      | Zinc, nickel plated, heavy duty | 6       |
| 70874 | 1                 | 5          | Zinc, nickel plated, heavy duty | 6       |



70813

### Swivel Spring Snaps

| Code  | Eye Dimension in. | Length in. | Finish                      | Qty Ctn |
|-------|-------------------|------------|-----------------------------|---------|
| 70869 | 1/4               | 2          | Zinc, nickel plated         | 12      |
| 70812 | 3/8               | 2 1/4      | Zinc, nickel plated         | 12      |
| 70813 | 3/8               | 2 1/4      | Zinc, nickel plated, opened | 12      |
| 70868 | 3/8               | 2 1/2      | Zinc, nickel plated         | 12      |
| 70867 | 3/4               | 3 7/8      | Zinc, nickel plated         | 12      |



70810

### Spring Snaps

| Code  | Eye Dimension in. | Length in. | Finish                          | Qty Ctn |
|-------|-------------------|------------|---------------------------------|---------|
| 70810 | 3/8               | 1 3/4      | Zinc, nickel plated, round eye  | 12      |
| 70873 | 3/4 x 1/4         | 2 3/8      | Zinc, nickel plated, square eye | 12      |
| 70871 | 3/4 x 7/16        | 3          | Zinc, nickel plated, square eye | 12      |
| 70825 | 1                 | 3          | Zinc, nickel plated, square eye | 6       |
| 70872 | 1 1/2             | 3 7/8      | Zinc, nickel plated, square eye | 6       |



### Panic Snaps

| Code  | Eye Dimension in. | Length in. | Finish              | Qty Ctn |
|-------|-------------------|------------|---------------------|---------|
| 70827 | 1/2               | 3 3/4      | Zinc, nickel plated | 6       |





## Simplex Snaps

| Code  | Eye Dimension in. | Length in. | Finish              | Qty Ctn |
|-------|-------------------|------------|---------------------|---------|
| 70831 | —                 | 3 1/4      | Zinc, nickel plated | 6       |
| 70850 | 3/8               | 2 5/8      | Zinc, nickel plated | 6       |

## Swivel Lever Snaps

| Code  | Eye Dimension in. | Length in. | Finish              | Qty Ctn |
|-------|-------------------|------------|---------------------|---------|
| 70816 | 5/8               | 3 1/4      | Zinc, nickel plated | 12      |
| 70817 | 3/4               | 3 1/4      | Zinc, nickel plated | 12      |
| 70853 | 3/4               | 3 1/2      | Zinc, nickel plated | 6       |
| 70823 | 1                 | 3 1/2      | Zinc, nickel plated | 6       |
| 70814 | 1 1/8             | 4 3/4      | Zinc, nickel plated | 6       |

## Swivel Boat Snaps

| Code  | Eye Dimension in. | Length in. | Finish              | Qty Ctn |
|-------|-------------------|------------|---------------------|---------|
| 77082 | 5/8               | 3 1/4      | Zinc, nickel plated | 6       |
| 70851 | 5/8               | 3 1/2      | Zinc, nickel plated | 6       |
| 70855 | 7/8               | 4 7/8      | Zinc, nickel plated | 6       |
| 70854 | 1                 | 3 7/8      | Zinc, nickel plated | 6       |
| 70821 | 5/8               | 3 1/4      | Brass               | 6       |
| 70852 | 11/16             | 3 3/4      | Brass               | 6       |
| 70830 | 3/4               | 3 3/4      | Brass               | 6       |
| 77080 | 3/4               | 4 1/4      | Bronze finish       | 6       |

## Swivel Lock Snaps

| Code  | Eye Dimension in. | Length in. | Finish              | Qty Ctn |
|-------|-------------------|------------|---------------------|---------|
| 70832 | 3/8               | 2          | Zinc, nickel plated | 6       |
| 70859 | 3/8               | 3          | Zinc, nickel plated | 6       |
| 70829 | 1/2               | 3          | Zinc, nickel plated | 12      |
| 70856 | 1/2               | 3 1/2      | Zinc, nickel plated | 6       |
| 70866 | 5/8               | 3 1/2      | Zinc, nickel plated | 6       |
| 70861 | 5/8               | 3          | Zinc, nickel plated | 6       |
| 70828 | 3/4               | 3 1/2      | Zinc, nickel plated | 12      |
| 70857 | 3/4               | 3 3/4      | Zinc, nickel plated | 6       |
| 70858 | 1                 | 4 1/4      | Zinc, nickel plated | 6       |
| 70820 | 3/4               | 3          | Brass               | 6       |
| 70863 | 3/4               | 3 5/32     | Brass               | 6       |
| 70862 | 5/8               | 3 1/4      | Brass               | 6       |
| 70864 | 1                 | 3 1/2      | Brass               | 6       |
| 70865 | 1 1/4             | 4 3/4      | Brass               | 6       |

## Ben-Mor Snap Hook

| Code       | For cable Diameter in. | Length in. | Breaking Strength lbs. | Finish              | Weight ea. lbs. |
|------------|------------------------|------------|------------------------|---------------------|-----------------|
| BM844-A-NP | 3/32                   | 2 1/2      | 500                    | Zinc, nickel plated | 0.082           |
| BM844-B-NP | 1/8                    | 2 1/8      | 500                    | Zinc, nickel plated | 0.079           |
| BM830-2-NP | 1/8                    | 2 3/4      | 1,000                  | Zinc, nickel plated | 0.192           |

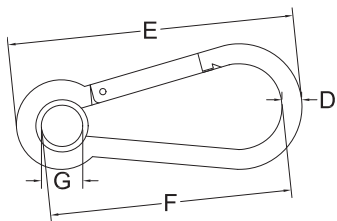


70816



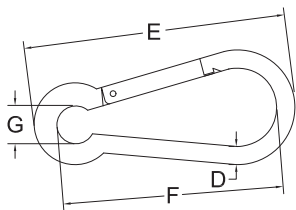
70823





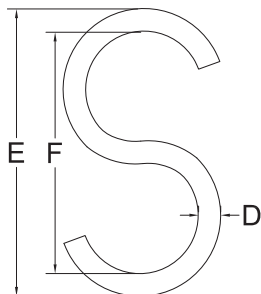
### Carbine Snap Hooks with Eyelets (zinc plated)

| Code              | Working Load Limit Lbs | Weight / ea. lbs | Dimensions in. |    |      |       |       |
|-------------------|------------------------|------------------|----------------|----|------|-------|-------|
|                   |                        |                  | D              |    | E    | F     | G     |
|                   |                        |                  | in.            | mm |      |       |       |
| S8-1              | 100                    | 0.04             | 3/16           | 5  | 1.97 | 1.586 | 0.197 |
| S8-2              | 140                    | 0.06             | 1/4            | 6  | 2.36 | 1.894 | 0.197 |
| S8-3              | 240                    | 0.15             | 5/16           | 8  | 3.15 | 2.449 | 0.315 |
| S8-4              | 400                    | 0.32             | 3/8            | 10 | 3.94 | 3.071 | 0.394 |
| S8-5              | 560                    | 0.60             | 1/2            | 12 | 5.51 | 4.470 | 0.512 |
| Safety Factor 5:1 |                        |                  |                |    |      |       |       |



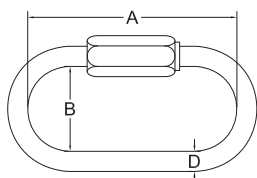
### Carbine Snap Hooks (zinc plated)

| Code              | Working Load Limit Lbs | Weight / ea. lbs | Dimensions in. |    |      |       |       |
|-------------------|------------------------|------------------|----------------|----|------|-------|-------|
|                   |                        |                  | D              |    | E    | F     | G     |
|                   |                        |                  | in.            | mm |      |       |       |
| S10-1             | 100                    | 0.04             | 3/16           | 5  | 1.97 | 1.614 | 0.197 |
| S10-2             | 140                    | 0.06             | 1/4            | 6  | 2.36 | 1.949 | 0.197 |
| S10-3             | 240                    | 0.15             | 5/16           | 8  | 3.15 | 2.545 | 0.315 |
| S10-4             | 400                    | 0.32             | 3/8            | 10 | 3.94 | 3.199 | 0.394 |
| S10-4.5           | 485                    | 0.42             | 7/16           | 11 | 4.72 | 3.960 | 0.433 |
| S10-5             | 560                    | 0.60             | 1/2            | 12 | 5.51 | 4.606 | 0.512 |
| Safety Factor 5:1 |                        |                  |                |    |      |       |       |



### "S" Hooks (zinc plated)

| Code    | Weight / ea. lbs | Dimensions in. |      |    |
|---------|------------------|----------------|------|----|
|         |                  | F              | D    |    |
|         |                  |                | in.  | mm |
| SHZ-018 | 0.01             | 1.30           | 1/8  | 3  |
| SHZ-532 | 0.02             | 1.50           | 5/32 | 4  |
| SHZ-316 | 0.03             | 1.44           | 3/16 | 5  |
| SHZ-014 | 0.07             | 1.75           | 1/4  | 6  |
| SHZ-516 | 0.15             | 2.34           | 5/16 | 8  |
| SHZ-038 | 0.27             | 3.20           | 3/8  | 10 |



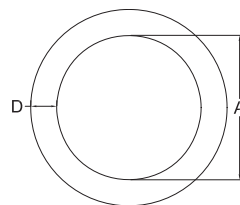
### Quick links rated (zinc plated)

| Code Zinc             | Working Load Limit Lbs | Weight / ea. lbs | Dimensions in. |       |      |    |
|-----------------------|------------------------|------------------|----------------|-------|------|----|
|                       |                        |                  | A              | B     | D    |    |
|                       |                        |                  |                |       | in.  | mm |
| QLZ-018               | 220                    | 0.03             | 1.00           | 0.335 | 1/8  | 3  |
| QLZ-532               | 500                    | 0.05             | 1.29           | 0.437 | 5/32 | 4  |
| QLZ-316               | 660                    | 0.06             | 1.40           | 0.512 | 3/16 | 5  |
| QLZ-014               | 880                    | 0.09             | 1.77           | 0.571 | 1/4  | 6  |
| QLZ-516               | 1,760                  | 0.18             | 2.28           | 0.689 | 5/16 | 8  |
| QLZ-038               | 2,640                  | 0.28             | 2.72           | 0.808 | 3/8  | 10 |
| QLZ-716               | 2,900                  | 0.48             | 3.00           | 0.870 | 7/16 | 11 |
| QLZ-012               | 3,300                  | 0.70             | 3.17           | 0.925 | 1/2  | 12 |
| QLZ-058               | 6,000                  | 1.16             | 4.12           | 1.065 | 5/8  | 16 |
| Safety Factor 2.5 : 1 |                        |                  |                |       |      |    |



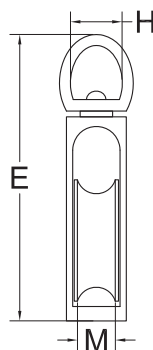
### Round Rings (Nickel plated)

| Code  | Std Pack | Dimensions in. |       |
|-------|----------|----------------|-------|
|       |          | A              | D     |
| 71000 | 12       | 1              | 3/16  |
| 71001 | 12       | 1 1/4          | 3/16  |
| 71002 | 12       | 1 1/2          | 1/4   |
| 71003 | 12       | 2              | 1/4   |
| 71004 | 12       | 1 3/4          | 1/4   |
| 71005 | 12       | 3/4            | 11/64 |
| 71011 | 12       | 3              | 1/2   |



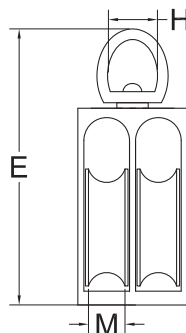
### Zinc Swivel Eye Pulleys (single)

| Code  | Size in. | Std Pack | Dimensions in. |      |      |
|-------|----------|----------|----------------|------|------|
|       |          |          | E              | H    | M    |
| 70720 | 1/2      | 6        | 1.775          | .460 | .225 |
| 70721 | 3/4      | 6        | 1.880          | .460 | .182 |
| 70722 | 1        | 6        | 2.340          | .460 | .295 |
| 70723 | 1 1/4    | 6        | 3.365          | .810 | .400 |
| 70724 | 1 1/2    | 6        | 3.480          | .820 | .384 |
| 77084 | 1 1/2    | 6        | 3.240          | .377 | .452 |
| 70725 | 2        | 6        | 4.220          | .728 | .383 |



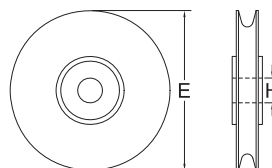
### Zinc Swivel Eye Pulleys (double)

| Code  | Size in. | Std Pack | Dimensions in. |      |      |
|-------|----------|----------|----------------|------|------|
|       |          |          | E              | H    | M    |
| 70730 | 1/2      | 6        | 1.78           | .460 | .200 |
| 70731 | 3/4      | 6        | 1.89           | .455 | .194 |
| 70732 | 1        | 6        | 2.36           | .445 | .290 |
| 70733 | 1 1/4    | 6        | 3.36           | .815 | .400 |
| 70734 | 1 1/2    | 6        | 3.50           | .818 | .405 |
| 77083 | 1 1/2    | 6        | 2.98           | .387 | .447 |



### Black Nylon Fiber Sheave, Ball Bearing

| Code  | Cable diameter in. | Capacity lbs | Dimensions in. |     |
|-------|--------------------|--------------|----------------|-----|
|       |                    |              | E              | H   |
| BM998 | 3/16               | 400          | 3 1/2          | 3/8 |
| BM999 | 3/16               | 250          | 4 1/2          | 3/8 |







# Stainless Steel Accessories

## Single Sleeves (stainless steel 304)



| Code       | Rope Size in. | Weight ea. lbs. |
|------------|---------------|-----------------|
| BSS505-516 | 5/16          | 0.2             |
| BSS505-038 | 3/8           | 0.2             |
| BSS505-716 | 7/16          | 0.3             |
| BSS505-012 | 1/2           | 0.3             |
| BSS505-058 | 5/8           | 0.8             |
| BSS505-034 | 3/4           | 1               |
| BSS505-078 | 7/8           | 1.5             |
| BSS505-001 | 1             | 2.2             |
| BSS505-118 | 1 1/8         | 2.8             |
| BSS505-114 | 1 1/4         | 2.5             |
| BSS505-138 | 1 3/8         | 3.5             |
| BSS505-112 | 1 1/2         | 3.8             |
| BSS505-134 | 1 3/4         | 7               |
| BSS505-002 | 2             | 8               |

## Oval Sleeves (Stainless Steel 304)



| Code     | For cable diameter in. | Weight / each approx. lbs. |
|----------|------------------------|----------------------------|
| SSOS-132 | 1/32                   | .001                       |
| SSOS-364 | 3/64                   | .002                       |
| SSOS-116 | 1/16                   | .002                       |
| SSOS-332 | 3/32                   | .003                       |
| SSOS-018 | 1/8                    | .004                       |
| SSOS-532 | 5/32                   | .014                       |
| SSOS-316 | 3/16                   | .023                       |
| SSOS-732 | 7/32                   | .031                       |
| SSOS-014 | 1/4                    | .044                       |

*Federal Specification MS51844. Other dimensions available upon request.*

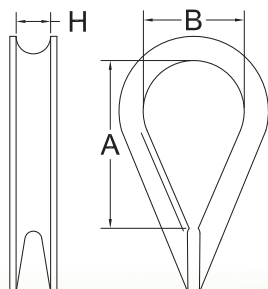
## Oval Sleeves (Stainless Steel 304)



| Code     | For cable diameter in. | Weight / each approx. lbs. |
|----------|------------------------|----------------------------|
| SSOS-516 | 5/16                   | .150                       |
| SSOS-038 | 3/8                    | .150                       |
| SSOS-716 | 7/16                   | .350                       |
| SSOS-012 | 1/2                    | .320                       |
| SSOS-058 | 5/8                    | .600                       |
| SSOS-034 | 3/4                    | 1.00                       |
| SSOS-078 | 7/8                    | 1.50                       |
| SSOS-001 | 1                      | 2.00                       |

*Other dimensions available upon request.*

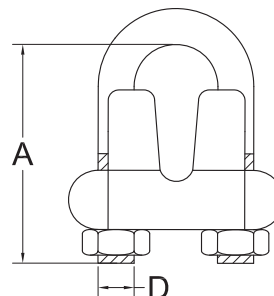
## AN Thimbles (stainless steel 304)



| Code      | For cable diameter in. | Weight / ea. approx. lbs. | Dimensions in. |       |       |
|-----------|------------------------|---------------------------|----------------|-------|-------|
|           |                        |                           | A              | B     | H     |
| ANTS4-116 | 3/64 – 1/16 – 5/64     | .002                      | 43/64          | .350  | 3/32  |
| ANTS4-018 | 3/32 – 7/64 – 1/8      | .004                      | 45/64          | .350  | 9/64  |
| ANTS4-532 | 5/32                   | .006                      | 51/64          | .400  | 11/64 |
| ANTS4-316 | 3/16                   | .010                      | 1              | .500  | 13/64 |
| ANTS4-014 | 7/32 – 1/4             | .015                      | 1 13/32        | .700  | 17/64 |
| ANTS4-516 | 9/32 – 5/16            | .035                      | 1 51/64        | .900  | 21/64 |
| ANTS4-038 | 3/8                    | .085                      | 2              | 1.000 | 25/64 |

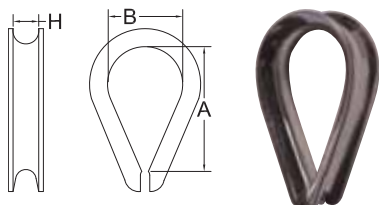
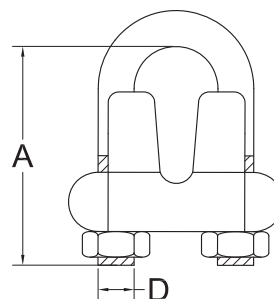
### Wire Rope Clips (stainless steel 316)

| Code      | For cable diameter in. | Dimensions in. |       | Weight / ea. lbs. |
|-----------|------------------------|----------------|-------|-------------------|
|           |                        | A              | D     |                   |
| WRCS6-116 | 1/16                   | 0.620          | 0.110 | 0.020             |
| WRCS6-018 | 1/8                    | 0.810          | 0.150 | 0.030             |
| WRCS6-532 | 5/32                   | 0.810          | 0.150 | 0.040             |
| WRCS6-316 | 3/16                   | 0.960          | 0.190 | 0.060             |
| WRCS6-014 | 1/4                    | 1.490          | 0.230 | 0.090             |
| WRCS6-516 | 5/16                   | 1.315          | 0.300 | 0.190             |
| WRCS6-038 | 3/8                    | 1.855          | 0.385 | 0.370             |
| WRCS6-012 | 1/2                    | 1.965          | 0.460 | 0.596             |
| WRCS6-916 | 9/16                   | 2.630          | 0.540 | 0.850             |
| WRCS6-058 | 5/8                    | 2.630          | 0.540 | 1.000             |
| WRCS6-034 | 3/4                    | 2.730          | 0.540 | 1.500             |
| WRCS6-078 | 7/8                    | 3.000          | 0.770 | 2.000             |
| WRCS6-001 | 1                      | 3.560          | 0.770 | 2.500             |



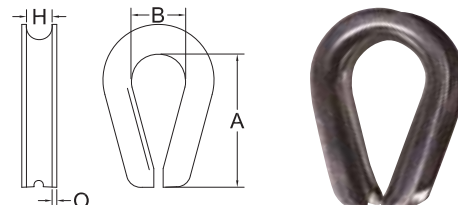
### Wire Rope Clips (stainless steel 304)

| Code      | For cable diameter in. | Dimensions in. |       | Weight / ea. lbs. |
|-----------|------------------------|----------------|-------|-------------------|
|           |                        | A              | D     |                   |
| WRCS4-116 | 1/16                   | 0.705          | 0.150 | 0.020             |
| WRCS4-018 | 1/8                    | 0.830          | 0.195 | 0.030             |
| WRCS4-532 | 5/32                   | 0.905          | 0.205 | 0.040             |
| WRCS4-316 | 3/16                   | 0.945          | 0.235 | 0.060             |
| WRCS4-014 | 1/4                    | 1.285          | 0.300 | 0.090             |
| WRCS4-516 | 5/16                   | 1.375          | 0.312 | 0.190             |
| WRCS4-038 | 3/8                    | 1.725          | 0.385 | 0.370             |
| WRCS4-012 | 1/2                    | 2.130          | 0.465 | 0.596             |
| WRCS4-058 | 5/8                    | 2.405          | 0.540 | 1.000             |
| WRCS4-034 | 3/4                    | 2.630          | 0.560 | 1.500             |
| WRCS4-078 | 7/8                    | 3.150          | 0.630 | 2.000             |
| WRCS4-001 | 1                      | 3.500          | 0.630 | 2.500             |



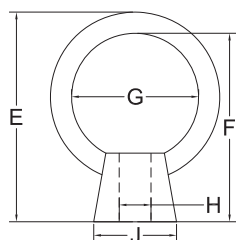
### Standard Thimbles (stainless steel 304)

| Standard Code 304 | For cable diameter in. | Weight / ea. approx. lbs. | Dimensions in. |       |       |
|-------------------|------------------------|---------------------------|----------------|-------|-------|
|                   |                        |                           | A              | B     | H     |
| STDTS4-018        | 1/8                    | .006                      | .709           | .394  | .157  |
| STDTS4-316        | 3/16                   | .014                      | .827           | .512  | .236  |
| STDTS4-014        | 1/4                    | .024                      | 1.063          | .591  | .276  |
| STDTS4-516        | 5/16                   | .056                      | 1.496          | .866  | .354  |
| STDTS4-038        | 3/8                    | .073                      | 1.614          | .945  | .394  |
| STDTS4-012        | 1/2                    | .139                      | 2.080          | 1.142 | .551  |
| STDTS4-058        | 5/8                    | .276                      | 2.638          | 1.574 | .709  |
| STDTS4-034        | 3/4                    | .588                      | 3.150          | 1.968 | .866  |
| STDTS4-078        | 7/8                    | .625                      | 3.543          | 2.205 | .945  |
| STDTS4-001        | 1                      | .735                      | 4.724          | 2.953 | 1.181 |



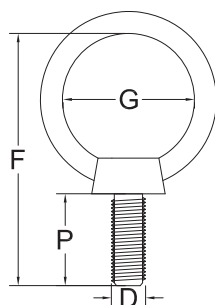
### Heavy Duty Thimbles (stainless steel 316)

| Heavy Duty Code 316 | For cable diameter in. | Weight / ea. approx. lbs. | Dimensions in. |      |      |      |
|---------------------|------------------------|---------------------------|----------------|------|------|------|
|                     |                        |                           | A              | B    | H    | O    |
| HDS6FS-316          | 3/16                   | 0.04                      | 1.35           | 0.71 | 0.23 | 0.05 |
| HDS6FS-014          | 1/4                    | 0.08                      | 1.60           | 0.90 | 0.28 | 0.07 |
| HDS6FS-516          | 5/16                   | 0.14                      | 1.85           | 1.08 | 0.35 | 0.07 |
| HDS6FS-038          | 3/8                    | 0.25                      | 2.00           | 1.12 | 0.40 | 0.11 |
| HDS6FS-012          | 1/2                    | 0.53                      | 2.62           | 1.52 | 0.55 | 0.15 |
| HDS6FS-058          | 5/8                    | 0.70                      | 3.00           | 1.78 | 0.65 | 0.15 |
| HDS6FS-034          | 3/4                    | 1.25                      | 3.83           | 2.02 | 0.85 | 0.22 |
| HDS6FS-078          | 7/8                    | 1.50                      | 4.08           | 2.30 | 0.95 | 0.22 |
| HDS6FS-001          | 1                      | 2.50                      | 4.80           | 2.56 | 1.12 | 0.22 |



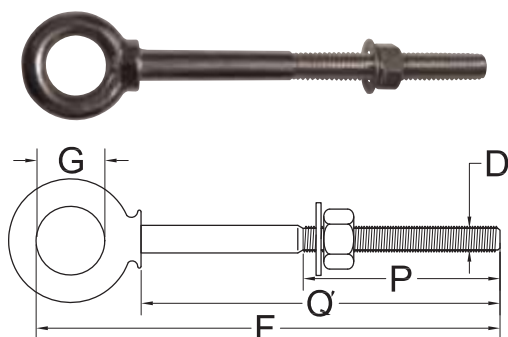
## Eye Nuts (Stainless Steel)

| Code              | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |        |      |      |      |
|-------------------|-------------------------|-------------------|----------------|--------|------|------|------|
|                   |                         |                   | E              | F      | G    | H    | J    |
| ENS-014           | 400                     | 0.04              | 1.20           | 1      | 0.62 | 1/4  | 0.50 |
| ENS-516           | 700                     | 0.08              | 1.55           | 1 5/16 | 0.75 | 5/16 | 0.62 |
| ENS-038           | 1,000                   | 0.13              | 1.92           | 1 5/8  | 0.97 | 3/8  | 0.76 |
| ENS-012           | 2,000                   | 0.26              | 2.38           | 2      | 1.17 | 1/2  | 0.95 |
| ENS-058           | 3,200                   | 0.53              | 2.81           | 2 1/2  | 1.34 | 5/8  | 1.19 |
| ENS-034           | 4,700                   | 0.75              | 3.36           | 2 3/4  | 1.57 | 3/4  | 1.32 |
| Safety Factor 5:1 |                         |                   |                |        |      |      |      |



## Lifting Eye Bolts (Stainless Steel 316)

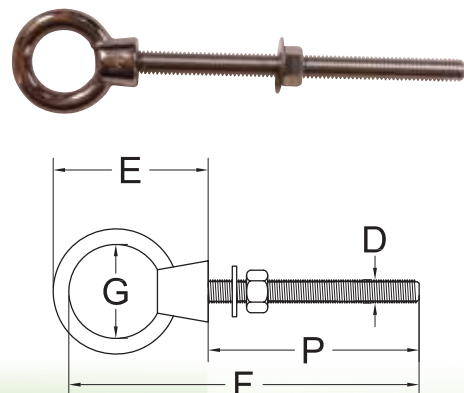
| Code              | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |         |        |        |
|-------------------|-------------------------|-------------------|----------------|---------|--------|--------|
|                   |                         |                   | D              | F       | G      | P      |
| LEBS-014916       | 400                     | 0.05              | 1/4            | 1 7/16  | 5/8    | 9/16   |
| LEBS-516916       | 700                     | 0.07              | 5/16           | 1 5/8   | 3/4    | 9/16   |
| LEBS-0381116      | 1,000                   | 0.13              | 3/8            | 2 1/8   | 15/16  | 11/16  |
| LEBS-012078       | 2,000                   | 0.30              | 1/2            | 2 7/16  | 1 1/8  | 7/8    |
| LEBS-0581116      | 3,200                   | 0.45              | 5/8            | 2 15/16 | 1 5/16 | 1 1/16 |
| LEBS-034118       | 4,700                   | 0.79              | 3/4            | 3 5/16  | 1 9/16 | 1 1/8  |
| LEBS-034002       | 4,700                   | 0.79              | 3/4            | 4 7/16  | 1 9/16 | 2      |
| LEBS-0011516      | 7,500                   | 1.65              | 1              | 4 1/2   | 2      | 1 5/16 |
| Safety Factor 5:1 |                         |                   |                |         |        |        |



## Shoulder Nut Eye Bolts (Stainless Steel 316)

| Code              | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |         |       |        |       |
|-------------------|-------------------------|-------------------|----------------|---------|-------|--------|-------|
|                   |                         |                   | D              | F       | G     | P      | Q     |
| SNEBS-014004      | 370                     | 0.06              | 1/4            | 4 13/16 | .495  | 2 5/8  | 4     |
| SNEBS-516412      | 625                     | 0.13              | 5/16           | 5 7/8   | .620  | 2 7/16 | 4 1/2 |
| SNEBS-038412      | 930                     | 0.20              | 3/8            | 5 1/4   | .759  | 2 1/2  | 4 1/2 |
| SNEBS-012006      | 1,700                   | 0.33              | 1/2            | 7 3/4   | 1.021 | 3      | 6     |
| Safety Factor 5:1 |                         |                   |                |         |       |        |       |

UNC Threading



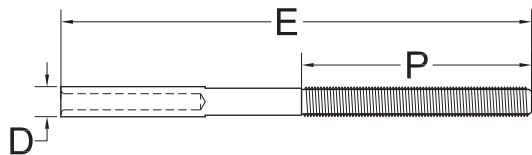
## Shoulder Nut Eye Bolts Heavy Duty (Stainless Steel 316)

| Code              | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |      |        |      |      |
|-------------------|-------------------------|-------------------|----------------|------|--------|------|------|
|                   |                         |                   | D              | E    | F      | G    | P    |
| HDSNEBS-014002    | 400                     | 0.07              | 1/4            | 1.20 | 3      | 0.62 | 2.00 |
| HDSNEBS-516004    | 700                     | 0.16              | 5/16           | 1.55 | 5 1/4  | 0.75 | 4.00 |
| HDSNEBS-038005    | 1,000                   | 0.29              | 3/8            | 1.92 | 6 5/8  | 0.97 | 5.00 |
| HDSNEBS-012006    | 2,000                   | 0.61              | 1/2            | 2.38 | 7 7/8  | 1.17 | 6.00 |
| HDSNEBS-058006    | 3,200                   | 1.10              | 5/8            | 2.81 | 8 1/4  | 1.34 | 6.00 |
| HDSNEBS-034006    | 4,700                   | 1.60              | 3/4            | 3.36 | 8 5/8  | 1.57 | 6.00 |
| HDSNEBS-001009    | 7,000                   | 3.78              | 1              | 3.55 | 11 1/2 | 2.00 | 9.00 |
| Safety Factor 5:1 |                         |                   |                |      |        |      |      |

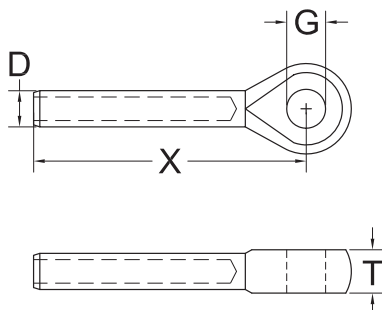
UNC Threading



## Ben-Mor Threaded Studs (Stainless Steel)



| Code       | For Cable Diameter | Thd. D<br>NF-3A or<br>UNF-3A | Dimensions<br>in. |                   |                  |                   |                  |       |
|------------|--------------------|------------------------------|-------------------|-------------------|------------------|-------------------|------------------|-------|
|            |                    |                              | C                 | D<br>Before swage | D<br>After swage | E<br>Before swage | E<br>After swage | P     |
| BM21259-2  | 1/16               | 6-40                         | .188              | .160              | .138             | 2.473             | 2.650            | 1.045 |
| BM21259-3  | 3/32               | 10-32                        | .250              | .218              | .190             | 2.879             | 2.996            | 1.204 |
| BM21259-4  | 1/8                | 1/4-28                       | .313              | .250              | .219             | 3.333             | 3.589            | 1.376 |
| BM21259-5  | 5/32               | 1/4-28                       | .313              | .297              | .250             | 3.627             | 3.972            | 1.376 |
| BM21259-6  | 3/16               | 5/16-24                      | .375              | .359              | .313             | 4.002             | 4.170            | 1.458 |
| BM21259-7  | 7/32               | 3/8-24                       | .438              | .427              | .375             | 4.516             | 4.812            | 1.625 |
| BM21259-8  | 1/4                | 3/8-24                       | .500              | .494              | .438             | 4.937             | 5.236            | 1.750 |
| BM21259-9  | 9/32               | 7/16-20                      | .625              | .563              | .500             | 5.391             | 5.750            | 1.875 |
| BM21259-10 | 5/16               | 1/2-20                       | .688              | .635              | .563             | 5.844             | 6.266            | 2.000 |
| BM21259-12 | 3/8                | 9/16-18                      | .750              | .703              | .625             | 6.656             | 7.069            | 2.250 |
| BM21259-14 | 7/16               | 5/8-18                       | .812              | .781              | .688             | 7.437             | 7.910            | 2.500 |
| BM21259-16 | 1/2                | 5/8-18                       | .875              | .844              | .750             | 8.187             | 8.742            | 2.500 |



## Marine Eyes EY1 (Stainless Steel)

| Code   | For cable diameter in. | Weight / ea. lbs. | Dimensions in.      |                    |                   |                   |                   |                  |
|--------|------------------------|-------------------|---------------------|--------------------|-------------------|-------------------|-------------------|------------------|
|        |                        |                   | D<br>Before swaging | D<br>After swaging | G<br>Before swage | T<br>Before swage | X<br>Before swage | X<br>After swage |
| EY1-2  | 1/16                   | .015              | 0.160               | 0.138              | 0.264             | 0.218             | 1.500             | 1.809            |
| EY1-3  | 3/32                   | .028              | 0.218               | 0.190              | 0.264             | 0.218             | 1.758             | 2.070            |
| EY1-4  | 1/8                    | .033              | 0.250               | 0.219              | 0.264             | 0.218             | 2.088             | 2.401            |
| EY1-5  | 5/32                   | .055              | 0.297               | 0.250              | 0.327             | 0.281             | 2.355             | 2.709            |
| EY1-6  | 3/16                   | .090              | 0.359               | 0.313              | 0.389             | 0.359             | 2.750             | 3.147            |
| EY1-7  | 7/32                   | .150              | 0.427               | 0.375              | 0.452             | 0.406             | 3.220             | 3.787            |
| EY1-8  | 1/4                    | .250              | 0.494               | 0.438              | 0.514             | 0.468             | 3.625             | 4.282            |
| EY1-9  | 9/32                   | .330              | 0.563               | 0.500              | 0.514             | 0.468             | 3.795             | 4.514            |
| EY1-10 | 5/16                   | .500              | 0.635               | 0.563              | 0.640             | 0.593             | 4.495             | 5.274            |
| EY1-12 | 3/8                    | .670              | 0.703               | 0.625              | 0.640             | 0.593             | 4.930             | 5.659            |
| EY1-14 | 7/16                   | 1.00              | 0.781               | 0.688              | 0.765             | 0.719             | 6.375             | 6.750            |
| EY1-16 | 1/2                    | 1.25              | 0.844               | 0.750              | 0.890             | 0.844             | 7.375             | 7.587            |



EYE & EYE



JAW & JAW



HOOK & HOOK



## Precision Cast Turnbuckles (stainless steel 316)

| Code<br>E & E | Code<br>J & J | Size<br>Diameter x Take-Up<br>in. | Working Load Limit<br>lbs. | Code<br>H & H | Size<br>Diameter x Take-Up<br>in. | Working Load Limit<br>lbs. | Weight / ea.<br>lbs. |
|---------------|---------------|-----------------------------------|----------------------------|---------------|-----------------------------------|----------------------------|----------------------|
|               |               |                                   | E & E / J & J              |               |                                   | H & H                      |                      |
| TEES-316214   | TJS-316214    | 3/16 x 2 1/4                      | 300                        | THHS-316212   | 3/16 x 2 1/2                      | 100                        | 0.10                 |
| TEES-014234   | TJS-014234    | 1/4 x 2 3/4                       | 440                        | THHS-014003   | 1/4 x 3                           | 200                        | 0.20                 |
| TEES-516334   | TJS-516334    | 5/16 x 3 3/4                      | 800                        | THHS-516004   | 5/16 x 4                          | 400                        | 0.37                 |
| TEES-038434   | TJS-038434    | 3/8 x 4 3/4                       | 1,200                      | THHS-038006   | 3/8 x 6                           | 700                        | 0.60                 |
| TEES-012006   | TJS-012006    | 1/2 x 6                           | 2,200                      | THHS-012006   | 1/2 x 6                           | 1,000                      | 1.25                 |
| TEES-058008   | TJS-058008    | 5/8 x 8                           | 2,800                      | THHS-058008   | 5/8 x 8                           | 1,500                      | 2.38                 |
| TEES-034010   | TJS-034010    | 3/4 x 10                          | 3,500                      | THHS-034010   | 3/4 x 10                          | 2,000                      | 4.00                 |

Safety Factor 5:1

UNC threading

EYE & EYE



JAW & JAW



HOOK & HOOK



## Forged Turnbuckles (stainless steel 316)

| Code<br>E & E | Code<br>J & J | Size<br>Diameter x Take-Up<br>in. | Working Load Limit<br>lbs. | Code<br>H & H | Size<br>Diameter x Take-Up<br>in. | Working Load Limit<br>lbs. | Weight / ea.<br>lbs. |
|---------------|---------------|-----------------------------------|----------------------------|---------------|-----------------------------------|----------------------------|----------------------|
|               |               |                                   | E & E / J & J              |               |                                   | H & H                      |                      |
| TEES-014004F  | TJS-014004F   | 1/4 x 4                           | 460                        | THHS-014004F  | 1/4 x 4                           | 300                        | 0.20                 |
| TEES-516412F  | TJS-516412F   | 5/16 x 4 1/2                      | 780                        | THHS-516412F  | 5/16 x 4 1/2                      | 500                        | 0.37                 |
| TEES-038006F  | TJS-038006F   | 3/8 x 6                           | 1,160                      | THHS-038006F  | 3/8 x 6                           | 750                        | 0.60                 |
| TEES-012006F  | TJS-012006F   | 1/2 x 6                           | 2,150                      | THHS-012006F  | 1/2 x 6                           | 1,050                      | 1.25                 |
| TEES-058006F  | TJS-058006F   | 5/8 x 6                           | 3,440                      | THHS-058006F  | 5/8 x 6                           | 1,600                      | 2.38                 |
| TEES-034006F  | TJS-034006F   | 3/4 x 6                           | 5,140                      | THHS-034006F  | 3/4 x 6                           | 2,000                      | 4.00                 |

Safety Factor 5:1

UNC threading



### Jaw and swage terminals (stainless steel 316)

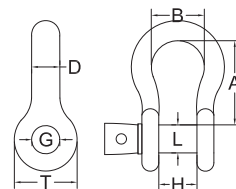
| Code     | For cable diameter in. | Size Diameter x Take-Up in. | Weight / ea. lbs. |
|----------|------------------------|-----------------------------|-------------------|
| TJS-018a | 1/8                    | 1/4 x 3 1/2                 | 0.2               |
| TJS-532a | 5/32                   | 1/4 x 3 1/2                 | 0.2               |
| TJS-532b | 5/32                   | 5/16 x 4 5/16               | 0.3               |
| TJS-316a | 3/16                   | 5/16 x 4 5/16               | 0.3               |
| TJS-316b | 3/16                   | 3/8 x 4 3/4                 | 0.5               |
| TJS-732a | 7/32                   | 3/8 x 4 3/4                 | 0.5               |
| TJS-014a | 1/4                    | 3/8 x 4 3/4                 | 0.6               |
| TJS-014b | 1/4                    | 1/2 x 5 7/8                 | 0.6               |
| TJS-932a | 9/32                   | 7/10 x 5 1/8                | 0.7               |
| TJS-932b | 9/32                   | 1/2 x 5 7/8                 | 1.0               |
| TJS-516a | 5/16                   | 1/2 x 5 7/8                 | 1.8               |
| TJS-516b | 5/16                   | 5/8 x 7 1/2                 | 1.9               |
| TJS-038a | 3/8                    | 5/8 x 7 1/2                 | 2.0               |
| TJS-038b | 3/8                    | 3/4 x 8 5/8                 | 3.7               |
| TJS-012a | 1/2                    | 3/4 x 8 5/8                 | 3.8               |



### Screw Pin Shackles, bow type (stainless steel 316)

| Code       | Size in. | Working Load Limit lbs. | Weight ea. lbs. | Dimensions (in.) |       |       |       |       |       |       |
|------------|----------|-------------------------|-----------------|------------------|-------|-------|-------|-------|-------|-------|
|            |          |                         |                 | A                | B     | D     | G     | H     | L     | T     |
| SPAS-316S6 | 3/16     | 400                     | 0.03            | 0.740            | 0.622 | 0.206 | 0.220 | 0.375 | 0.200 | 0.448 |
| SPAS-014S6 | 1/4      | 720                     | 0.06            | 0.820            | 0.960 | 0.232 | 0.268 | 0.526 | 0.225 | 0.500 |
| SPAS-516S6 | 5/16     | 1,060                   | 0.16            | 1.350            | 1.120 | 0.305 | 0.335 | 0.660 | 0.308 | 0.625 |
| SPAS-038S6 | 3/8      | 1,600                   | 0.24            | 1.520            | 1.280 | 0.415 | 0.427 | 0.820 | 0.386 | 0.780 |
| SPAS-716S6 | 7/16     | 2,200                   | 0.50            | 2.100            | 1.640 | 0.464 | 0.497 | 0.960 | 0.464 | 0.933 |
| SPAS-012S6 | 1/2      | 2,800                   | 0.40            | 2.000            | 1.520 | 0.450 | 0.520 | 1.060 | 0.462 | 1.010 |
| SPAS-058S6 | 5/8      | 4,400                   | 1.00            | 2.900            | 2.130 | 0.620 | 0.635 | 0.122 | 0.600 | 1.250 |
| SPAS-034S6 | 3/4      | 6,400                   | 1.61            | 2.900            | 2.450 | 0.767 | 0.845 | 1.570 | 0.767 | 1.550 |
| SPAS-078S6 | 7/8      | 8,800                   | 2.53            | 3.350            | 2.190 | 0.875 | 1.040 | 1.400 | 0.965 | 2.000 |
| SPAS-001S6 | 1        | 15,500                  | 3.60            | 4.400            | 3.400 | 0.970 | 1.100 | 2.000 | 0.958 | 2.000 |

Safety Factor 5:1

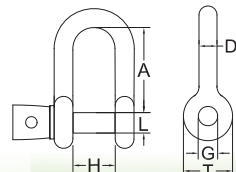


### Screw Pin Shackles, chain type (stainless steel 316)

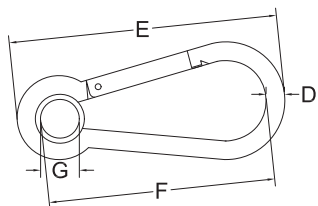
| Code       | Size in. | Working Load Limit lbs. | Weight ea. lbs. | Dimensions (in.) |       |       |       |       |       |
|------------|----------|-------------------------|-----------------|------------------|-------|-------|-------|-------|-------|
|            |          |                         |                 | A                | D     | G     | H     | L     | T     |
| SPCS-316S6 | 3/16     | 400                     | 0.03            | 0.765            | 0.200 | 0.210 | 0.461 | 0.188 | 0.400 |
| SPCS-014S6 | 1/4      | 720                     | 0.06            | 0.820            | 0.230 | 0.260 | 0.480 | 0.226 | 0.425 |
| SPCS-516S6 | 5/16     | 1,060                   | 0.16            | 1.070            | 0.302 | 0.325 | 0.672 | 0.305 | 0.620 |
| SPCS-038S6 | 3/8      | 1,600                   | 0.24            | 1.400            | 0.388 | 0.400 | 0.812 | 0.380 | 0.770 |
| SPCS-012S6 | 1/2      | 2,800                   | 0.40            | 1.810            | 0.500 | 0.525 | 1.000 | 0.465 | 1.020 |
| SPCS-058S6 | 5/8      | 4,400                   | 1.00            | 1.900            | 0.586 | 0.637 | 1.250 | 0.626 | 1.150 |

Safety Factor 5:1

Do not use for lifting. Lifting application available on request.

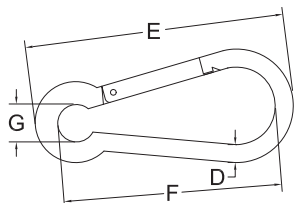






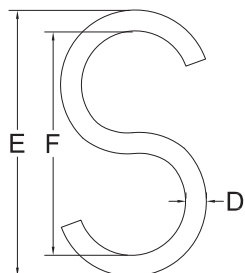
### Carbine Snap Hooks with Eyelets (stainless steel 316)

| Code              | Working Load Limit lbs | Weight / ea. lbs | Dimensions in. |    |      |       |       |
|-------------------|------------------------|------------------|----------------|----|------|-------|-------|
|                   |                        |                  | D              |    | E    | F     | G     |
|                   |                        |                  | in.            | mm |      |       |       |
| S9-1              | 120                    | 0.04             | 3/16           | 5  | 1.97 | 1.553 | 0.197 |
| S9-2              | 160                    | 0.06             | 1/4            | 6  | 2.36 | 1.918 | 0.197 |
| S9-3              | 300                    | 0.15             | 5/16           | 8  | 3.15 | 2.471 | 0.315 |
| S9-4              | 400                    | 0.32             | 3/8            | 10 | 3.94 | 3.036 | 0.394 |
| S9-5              | 700                    | 0.60             | 1/2            | 12 | 5.51 | 4.516 | 0.512 |
| Safety Factor 5:1 |                        |                  |                |    |      |       |       |



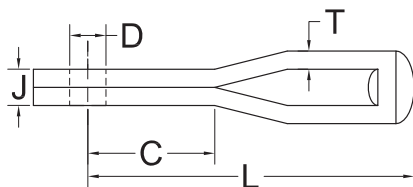
### Carbine Snap Hooks (stainless steel 316)

| Code              | Working Load Limit lbs | Weight / ea. lbs | Dimensions in. |    |      |       |       |
|-------------------|------------------------|------------------|----------------|----|------|-------|-------|
|                   |                        |                  | D              |    | E    | F     | G Min |
|                   |                        |                  | in.            | mm |      |       |       |
| S11-1             | 120                    | 0.04             | 3/16           | 5  | 1.97 | 1.609 | 0.197 |
| S11-2             | 160                    | 0.06             | 1/4            | 6  | 2.36 | 1.945 | 0.197 |
| S11-3             | 300                    | 0.15             | 5/16           | 8  | 3.15 | 2.578 | 0.315 |
| S11-4             | 400                    | 0.32             | 3/8            | 10 | 3.94 | 3.146 | 0.394 |
| S11-5             | 700                    | 0.60             | 1/2            | 12 | 5.51 | 4.678 | 0.512 |
| Safety Factor 5:1 |                        |                  |                |    |      |       |       |



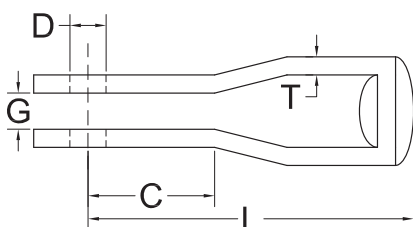
### "S" Hooks (stainless steel 316)

| Code    | Weight / ea. lbs | Dimensions in. |    |      |       |
|---------|------------------|----------------|----|------|-------|
|         |                  | D              |    | E    | F     |
|         |                  | in.            | mm |      |       |
| SHS-018 | 0.01             | 1/8            | 3  | 1.35 | 1.142 |
| SHS-532 | 0.02             | 5/32           | 4  | 1.61 | 1.116 |
| SHS-316 | 0.03             | 3/16           | 5  | 1.98 | 1.490 |
| SHS-014 | 0.07             | 1/4            | 6  | 2.10 | 1.809 |
| SHS-516 | 0.15             | 5/16           | 8  | 2.42 | 2.075 |



### Stainless Strap Eyes (Stainless Steel)

| Code    | Diameter in. | Dimensions in. |      |      |         |      |
|---------|--------------|----------------|------|------|---------|------|
|         |              | C              | D    | J    | L       | T    |
| 2161-02 | 1/16         | .454           | .188 | .088 | 1 1/16  | .042 |
| 2161-03 | 3/32         | .616           | .188 | .103 | 1 1/2   | .049 |
| 2161-04 | 1/8          | .638           | .188 | .190 | 1 5/8   | .093 |
| 2161-05 | 5/32         | .699           | .250 | .197 | 1 15/16 | .096 |
| 2161-06 | 3/16         | .750           | .313 | .255 | 2 3/16  | .125 |



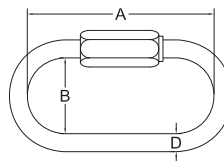
### Stainless Strap Forks (Stainless Steel)

| Code    | Diameter in. | Dimensions in. |      |      |         |      |
|---------|--------------|----------------|------|------|---------|------|
|         |              | C              | D    | G    | L       | T    |
| 3161-02 | 1/16         | .454           | .188 | .088 | 1 1/16  | .042 |
| 3161-03 | 3/32         | .616           | .188 | .108 | 1 1/2   | .049 |
| 3161-04 | 1/8          | .638           | .188 | .195 | 1 5/8   | .093 |
| 3161-05 | 5/32         | .699           | .250 | .202 | 1 15/16 | .096 |
| 3161-06 | 3/16         | .750           | .313 | .260 | 2 3/16  | .125 |

## Quick links (stainless steel 316)

| Code    | Working Load Limit<br>Lbs | Weight / ea.<br>lbs | Dimensions<br>in. |       |      |    |
|---------|---------------------------|---------------------|-------------------|-------|------|----|
|         |                           |                     | A                 | B     | D    |    |
|         |                           |                     |                   |       | in.  | mm |
| QLS-018 | 450                       | 0.03                | 1.00              | 0.335 | 1/8  | 3  |
| QLS-532 | 900                       | 0.05                | 1.29              | 0.437 | 5/32 | 4  |
| QLS-316 | 1,200                     | 0.06                | 1.40              | 0.512 | 3/16 | 5  |
| QLS-014 | 1,400                     | 0.09                | 1.77              | 0.571 | 1/4  | 6  |
| QLS-516 | 2,400                     | 0.18                | 2.28              | 0.689 | 5/16 | 8  |
| QLS-038 | 3,200                     | 0.28                | 2.72              | 0.808 | 3/8  | 10 |
| QLS-012 | 5,500                     | 0.70                | 3.17              | 0.925 | 1/2  | 12 |

Safety Factor 2.5 : 1



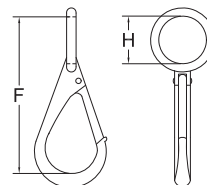
## Swivel Eye Snaps (stainless steel 316)

| Code | Working Load Limit<br>lbs. | Weight / ea.<br>lbs. | Dimensions<br>in. |     |
|------|----------------------------|----------------------|-------------------|-----|
|      |                            |                      | F                 | H   |
| S2-1 | 120                        | 0.128                | 3 5/16            | 3/4 |
| S2-2 | 150                        | 0.204                | 3 7/8             | 3/4 |



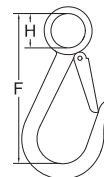
## Fixed Eye Snaps (stainless steel 316)

| Code | Working Load Limit<br>lbs. | Weight / ea.<br>lbs. | Dimensions<br>in. |     |
|------|----------------------------|----------------------|-------------------|-----|
|      |                            |                      | F                 | H   |
| S1-1 | 140                        | 0.052                | 2 1/16            | 5/8 |
| S1-2 | 240                        | 0.106                | 2 7/8             | 3/4 |
| S1-3 | 320                        | 0.165                | 3 5/16            | 3/4 |



## Safety Snap Hooks (stainless steel 316)

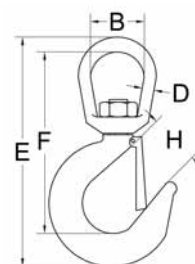
| Code | Working Load Limit<br>lbs. | Weight / ea.<br>lbs. | Dimensions<br>in. |       |
|------|----------------------------|----------------------|-------------------|-------|
|      |                            |                      | F                 | H     |
| S7-1 | 500                        | 0.26                 | 4 1/8             | 3/4   |
| S7-2 | 600                        | 0.42                 | 4 3/4             | 1 1/8 |



## Swivel Hooks (stainless steel 316)

| Code    | Working Load Limit<br>lbs. | Weight ea.<br>lbs. | Dimensions<br>in. |      |      |       |      |
|---------|----------------------------|--------------------|-------------------|------|------|-------|------|
|         |                            |                    | B                 | D    | E    | F     | H    |
| SH4-014 | 770                        | 0.42               | 0.87              | 1/4  | 4.65 | 3.607 | 0.68 |
| SH5-516 | 1,430                      | 0.72               | 1.10              | 5/16 | 5.50 | 4.210 | 0.76 |
| SH6-038 | 2,200                      | 1.16               | 1.10              | 3/8  | 6.25 | 4.752 | 0.79 |
| SH8-012 | 3,300                      | 2.34               | 1.42              | 1/2  | 7.87 | 5.875 | 1.18 |

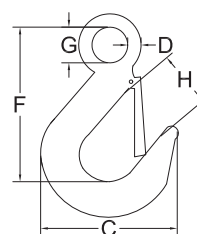
Safety Factor 4:1



## Eye Hooks (stainless steel 316)

| Code    | For chain<br>size<br>in. | Working Load<br>Limit<br>lbs. | Weight / ea.<br>lbs. | Dimensions<br>in. |      |      |      |
|---------|--------------------------|-------------------------------|----------------------|-------------------|------|------|------|
|         |                          |                               |                      | D                 | F    | G    | H    |
| EHS-014 | 1/4                      | 900                           | 0.35                 | 1/4               | 2.54 | 0.53 | 0.68 |
| EHS-516 | 5/16                     | 1,250                         | 0.55                 | 5/16              | 2.85 | 0.64 | 0.70 |
| EHS-038 | 3/8                      | 2,000                         | 0.92                 | 3/8               | 3.28 | 0.71 | 0.80 |
| EHS-012 | 1/2                      | 3,000                         | 1.90                 | 1/2               | 4.17 | 0.94 | 1.02 |

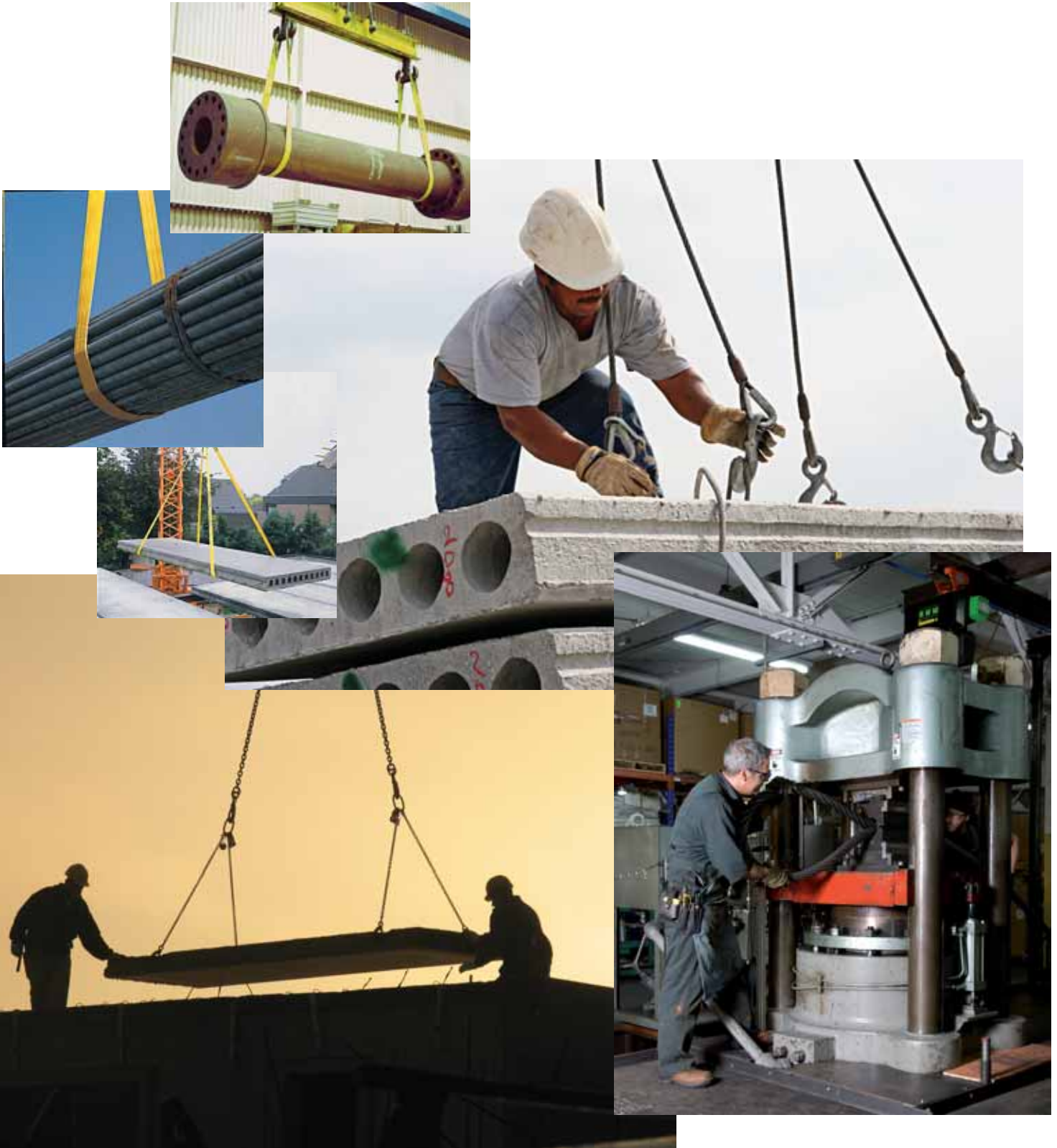
Safety Factor 5:1





# Lifting

## We Build the Future





## Chain Slings, Certified — Grade 80 (safety factor 4:1)

### SINGLES



Type A



Type B



S00



S0F



S0G



S0S

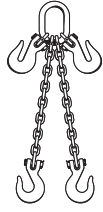


SGS



SSS

### DOUBLES



Type A



Type B



DOF

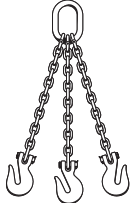


DOG



DOS

### TRIPLES



TOG



TOS

### QUADRUPLES



QOG



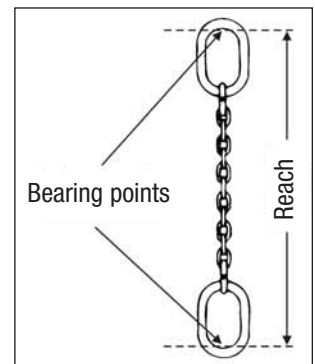
QOS

| Chain Diameter<br>in. | Working Load Limit (lbs) |                  |                  |                  |                        |          |
|-----------------------|--------------------------|------------------|------------------|------------------|------------------------|----------|
|                       | Single<br>@ 90 °         | Double<br>@ 60 ° | Double<br>@ 45 ° | Double<br>@ 30 ° | Oblong*<br>Master Link |          |
|                       |                          |                  |                  |                  | SINGLE                 | DOUBLE   |
| 9/32                  | 3,500                    | 6,100            | 4,900            | 3,500            | A342-012               | A342-012 |
| 3/8                   | 7,100                    | 12,300           | 10,000           | 7,100            | A342-034               | A342-034 |
| 1/2                   | 12,000                   | 20,800           | 17,000           | 12,000           | A342-001               | A342-001 |
| 5/8                   | 18,100                   | 31,300           | 25,600           | 18,100           | A342-001               | A342-114 |
| 3/4                   | 28,300                   | 49,900           | 40,000           | 28,300           | A342-114               | A342-112 |
| 7/8                   | 34,200                   | 59,200           | 48,400           | 34,200           | A342-112               | A342-134 |
| 1                     | 47,700                   | 82,600           | 67,400           | 47,700           | A342-134               | A342-002 |
| 1 1/4                 | 72,300                   | 125,200          | 102,200          | 72,300           | A342-002               | A342-214 |

\*See dimensions on page 63

| Chain Diameter<br>in. | Working Load Limit (lbs) |                         |                         |                       |
|-----------------------|--------------------------|-------------------------|-------------------------|-----------------------|
|                       | Triple / Quad<br>@ 60 °  | Triple / Quad<br>@ 45 ° | Triple / Quad<br>@ 30 ° | Oblong*<br>Assemblies |
|                       |                          |                         |                         |                       |
| 9/32                  | 9,100                    | 7,400                   | 5,200                   | SUB-034               |
| 3/8                   | 18,400                   | 15,100                  | 10,600                  | SUB-001               |
| 1/2                   | 31,200                   | 25,500                  | 18,000                  | SUB-114               |
| 5/8                   | 47,000                   | 38,400                  | 27,100                  | SUB-112               |
| 3/4                   | 73,500                   | 60,000                  | 42,400                  | SUB-134               |
| 7/8                   | 88,900                   | 72,500                  | 51,300                  | SUB-002               |
| 1                     | 123,900                  | 101,200                 | 71,500                  | SUB-214               |
| 1 1/4                 | 187,800                  | 153,400                 | 108,400                 | SUB-234               |

\*See dimensions on page 63



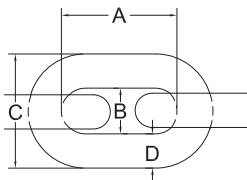
We offer a sling inspection and a sling cleaning service.





## Alloy Lifting Chain Grade 80

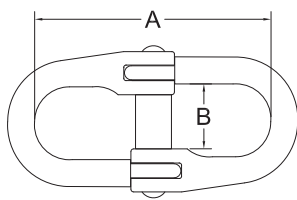
Grade 80 alloy chain is used for overhead lifting.



| Code       | Diameter<br>in. | Working Load<br>Limit<br>lbs. | Weight /<br>100 ft<br>lbs. | Dimensions<br>in. |       |       |       |
|------------|-----------------|-------------------------------|----------------------------|-------------------|-------|-------|-------|
|            |                 |                               |                            | A                 | B Min | C Max | D     |
| CH80SC-732 | 7/32            | 2,100                         | 47.0                       | .680              | .319  | .787  | .217  |
| CH80SC-932 | 9/32            | 3,500                         | 73.8                       | .826              | .375  | .992  | .276  |
| CH80SC-516 | 5/16            | 4,500                         | 93.9                       | .945              | .430  | 1.134 | .315  |
| CH80SC-038 | 3/8             | 7,100                         | 147.5                      | 1.181             | .531  | 1.417 | .394  |
| CH80SC-012 | 1/2             | 12,000                        | 254.8                      | 1.535             | .689  | 1.843 | .512  |
| CH80SC-058 | 5/8             | 18,100                        | 383.0                      | 1.890             | .846  | 2.268 | .630  |
| CH80SC-034 | 3/4             | 28,300                        | 578.0                      | 2.440             | 1.008 | 2.776 | .787  |
| CH80SC-078 | 7/8             | 34,200                        | 732.4                      | 2.598             | 1.161 | 3.118 | .866  |
| CH80SC-001 | 1               | 47,700                        | 1,021.4                    | 3.071             | 1.378 | 3.685 | 1.024 |
| CH80SC-114 | 1 1/4           | 72,300                        | 1,545.5                    | 3.780             | 1.701 | 4.528 | 1.260 |

Safety Factor 4:1

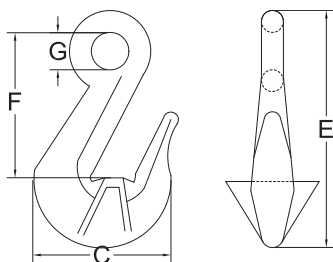
Grade 100 Chains, Slings and Components also available.



## Hammerlock Type Connecting Links (alloy Gr 80)

| Code     | For chain<br>diameter<br>in. | Working Load<br>Limit<br>lbs. | Weight / ea.<br>lbs. | Dimensions<br>in. |      |
|----------|------------------------------|-------------------------------|----------------------|-------------------|------|
|          |                              |                               |                      | A                 | B    |
| A337-932 | 9/32 - 5/16                  | 4,500                         | 0.23                 | 1.87              | 0.60 |
| A337-038 | 3/8                          | 7,100                         | 0.65                 | 2.69              | 0.81 |
| A337-012 | 1/2                          | 12,000                        | 1.50                 | 3.44              | 1.09 |
| A337-058 | 5/8                          | 18,100                        | 2.60                 | 4.17              | 1.35 |
| A337-034 | 3/4                          | 28,300                        | 3.80                 | 5.06              | 1.50 |
| A337-078 | 7/8                          | 34,200                        | 6.30                 | 5.82              | 2.12 |
| A337-001 | 1                            | 47,700                        | 9.30                 | 6.48              | 2.55 |
| A337-114 | 1 1/4                        | 72,300                        | 17.3                 | 8.48              | 3.52 |

Safety Factor 4:1



## Eye Cradle Grab Hooks (alloy Gr 80)

| Code      | For Chain Size<br>in. | Working Load<br>Limit<br>lbs. | Weight / ea.<br>lbs | Dimensions<br>in. |       |       |      |
|-----------|-----------------------|-------------------------------|---------------------|-------------------|-------|-------|------|
|           |                       |                               |                     | C                 | E     | F     | G    |
| EGH80-732 | 7/32                  | 2,100                         | .35                 | 1.75              | 2.69  | 1.63  | .63  |
| EGH80-932 | 9/32 - 5/16           | 4,500                         | .40                 | 1.81              | 3.44  | 2.36  | .63  |
| EGH80-038 | 3/8                   | 7,100                         | 1.06                | 2.63              | 4.67  | 3.11  | .78  |
| EGH80-012 | 1/2                   | 12,000                        | 2.26                | 3.34              | 5.86  | 3.94  | 1.03 |
| EGH80-058 | 5/8                   | 18,100                        | 4.36                | 4.08              | 7.13  | 4.78  | 1.25 |
| EGH80-034 | 3/4                   | 28,300                        | 8.82                | 5.23              | 8.99  | 6.25  | 1.44 |
| EGH80-078 | 7/8                   | 34,200                        | 10.40               | 5.69              | 9.63  | 6.50  | 1.75 |
| EGH80-001 | 1                     | 47,700                        | 20.90               | 7.00              | 12.44 | 8.09  | 1.88 |
| EGH80-114 | 1 1/4                 | 72,300                        | 40.00               | 8.50              | 15.56 | 10.50 | 2.25 |

Safety Factor 4:1



## WARNING

### Acidic chemicals and atmospheres

Alloy chain and Grade 80 components must not be used in acidic conditions.

### Extreme temperature conditions

The environmental temperature affects the Working Load Limit of Grade 80 chain slings as shown in the chart beside :

Grade 80 alloy chain slings must not be used at temperatures outside the ranges in the above chart.

### Use

- Never make knots with a lifting sling ;
- Do not exceed specified Working Load Limit (W.L.L.).

| Temperature of chain (°F) | Working load limit while at temperature <sup>1</sup> | Permanent reduction in working load limit <sup>2</sup> |
|---------------------------|------------------------------------------------------|--------------------------------------------------------|
| < -40                     | not-recommended                                      | none                                                   |
| -40 to 400                | 100%                                                 | none                                                   |
| 400 to 600                | 90%                                                  | none                                                   |
| 600 to 750                | 75%                                                  | 10%                                                    |
| > 750                     | not-recommended                                      | contact Ben-Mor                                        |

<sup>1</sup> While chain is at temperature shown in first column.

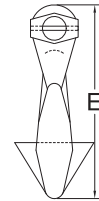
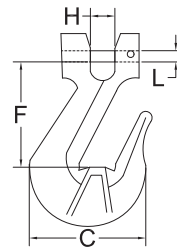
<sup>2</sup> When chain is used at room temperature after having been subjected to temperatures shown in first column.

We offer a sling inspection and a sling cleaning service.

## Clevis Cradle Grab Hooks (alloy Gr. 80)

| Code      | For Chain Size in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |      |      |     |     |
|-----------|--------------------|-------------------------|-------------------|----------------|------|------|-----|-----|
|           |                    |                         |                   | C              | E    | F    | H   | L   |
| CGH80-932 | 9/32 - 5/16        | 4,500                   | .46               | 1.95           | 3.47 | 2.06 | .38 | .35 |
| CGH80-038 | 3/8                | 7,100                   | 1.23              | 2.80           | 4.85 | 2.83 | .54 | .50 |
| CGH80-012 | 1/2                | 12,000                  | 2.40              | 3.69           | 6.45 | 3.67 | .59 | .63 |
| CGH80-058 | 5/8                | 18,100                  | 4.17              | 4.16           | 6.75 | 4.00 | .74 | .78 |
| CGH80-034 | 3/4                | 28,300                  | 9.56              | 5.23           | 9.08 | 5.50 | .87 | .90 |

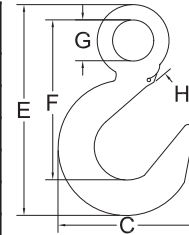
Safety Factor 4:1



## Eye Sling Hooks without latch (alloy Gr. 80) - Latch kit available

| Code      | For Chain Size in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |       |       |      |      |      |
|-----------|--------------------|-------------------------|-------------------|----------------|-------|-------|------|------|------|
|           |                    |                         |                   | C              | E     | F     | G    | H    | T    |
| ESH80-732 | 7/32               | 2,100                   | .7                | 3.31           | 4.30  | 3.06  | .75  | 1.25 | .78  |
| ESH80-932 | 9/32 - 5/16        | 4,500                   | 1.1               | 3.50           | 5.25  | 3.75  | .75  | 1.19 | .73  |
| ESH80-038 | 3/8                | 7,100                   | 1.9               | 4.34           | 6.64  | 4.78  | .94  | 1.44 | .95  |
| ESH80-012 | 1/2                | 12,000                  | 4.5               | 5.50           | 8.16  | 5.69  | 1.13 | 1.78 | 1.17 |
| ESH80-058 | 5/8                | 18,100                  | 7.3               | 6.34           | 9.66  | 6.50  | 1.31 | 2.03 | 1.44 |
| ESH80-034 | 3/4                | 28,300                  | 11.4              | 7.83           | 11.38 | 7.81  | 1.50 | 2.50 | 1.69 |
| ESH80-078 | 7/8                | 34,200                  | 18.1              | 8.59           | 12.72 | 8.75  | 1.69 | 2.78 | 1.94 |
| ESH80-001 | 1                  | 47,700                  | 22.6              | 9.59           | 14.23 | 9.88  | 1.88 | 3.13 | 2.14 |
| ESH80-114 | 1 1/4              | 72,000                  | 36.0              | 11.56          | 17.00 | 11.50 | 2.31 | 3.88 | 2.62 |

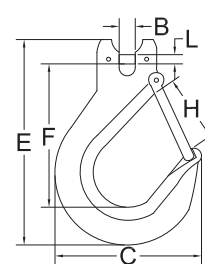
Safety Factor 4:1

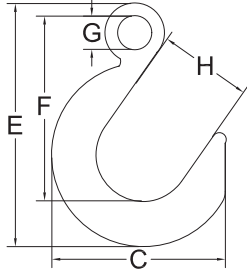


## Clevis Sling Hooks with latch (Alloy Gr. 80)

| Code       | For Chain Size in. | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |      |       |      |      |     |
|------------|--------------------|-------------------------|-------------------|----------------|------|-------|------|------|-----|
|            |                    |                         |                   | B              | C    | E     | F    | H    | L   |
| CSH80L-932 | 9/32 - 5/16        | 4,500                   | 0.6               | .35            | 3.52 | 5.34  | 3.30 | 1.00 | .39 |
| CSH80L-038 | 3/8                | 7,100                   | 1.9               | .47            | 4.36 | 6.27  | 4.05 | 1.32 | .49 |
| CSH80L-012 | 1/2                | 12,000                  | 4.3               | .64            | 5.12 | 7.55  | 4.91 | 1.55 | .63 |
| CSH80L-058 | 5/8                | 18,100                  | 5.2               | .75            | 6.28 | 9.69  | 6.08 | 2.03 | .75 |
| CSH80L-034 | 3/4                | 28,300                  | 11.4              | .875           | 7.83 | 11.69 | 7.34 | 2.50 | .91 |

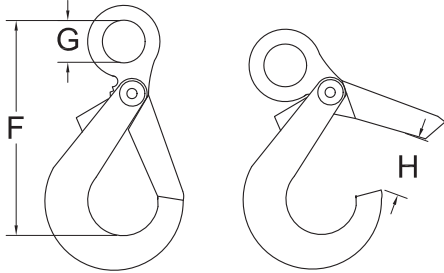
Safety Factor 4:1





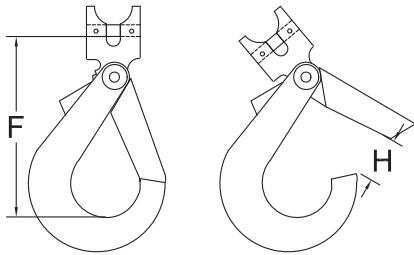
### Eye Foundry Hooks (alloy Gr. 80)

| Code              | For Chain Size in. | Working Load Limit lbs. | Weight / ea. lbs | Dimensions in. |       |       |      |      |
|-------------------|--------------------|-------------------------|------------------|----------------|-------|-------|------|------|
|                   |                    |                         |                  | C              | E     | F     | G    | H    |
| EFH80-932         | 9/32 - 5/16        | 4,500                   | 2.4              | 4.75           | 6.45  | 4.75  | .63  | 2.50 |
| EFH80-038         | 3/8                | 7,100                   | 4.5              | 5.75           | 7.88  | 5.75  | .75  | 3.00 |
| EFH80-012         | 1/2                | 12,000                  | 7.1              | 6.75           | 9.38  | 6.88  | 1.00 | 3.50 |
| EFH80-058         | 5/8                | 18,100                  | 11.6             | 7.81           | 10.97 | 8.06  | 1.25 | 4.00 |
| EFH80-034         | 3/4                | 28,300                  | 20.0             | 9.13           | 12.81 | 9.25  | 1.50 | 4.50 |
| EFH80-078         | 7/8                | 34,200                  | 26.0             | 10.14          | 14.23 | 10.38 | 1.75 | 5.00 |
| EFH80-001         | 1                  | 47,700                  | 36.8             | 11.13          | 15.84 | 11.56 | 2.13 | 5.50 |
| EFH80-114         | 1 1/4              | 72,300                  | 58.4             | 12.84          | 18.03 | 12.88 | 2.38 | 6.00 |
| Safety Factor 4:1 |                    |                         |                  |                |       |       |      |      |



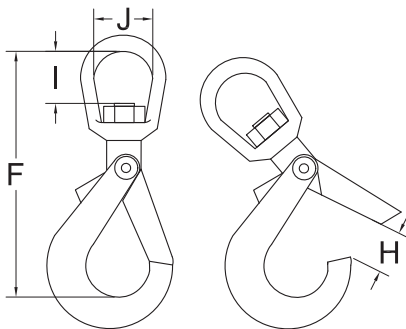
### Eye Self Locking Hooks (alloy Gr. 80)

| Code              | For Chain Size in. | Working Load Limit lbs. | Weight / ea. lbs | Dimensions in. |      |      |
|-------------------|--------------------|-------------------------|------------------|----------------|------|------|
|                   |                    |                         |                  | F              | G    | H    |
| S316-732          | 7/32               | 2,500                   | 0.9              | 4.33           | 0.83 | 1.14 |
| S316-014          | 1/4 - 5/16         | 4,500                   | 1.8              | 5.35           | 0.98 | 1.38 |
| S316-038          | 3/8                | 7,100                   | 3.2              | 6.57           | 1.26 | 1.77 |
| S316-012          | 1/2                | 12,000                  | 6.0              | 8.15           | 1.56 | 2.13 |
| S316-058          | 5/8                | 18,100                  | 12.8             | 9.92           | 2.05 | 2.44 |
| Safety Factor 4:1 |                    |                         |                  |                |      |      |



### Clevis Self Locking Hooks (Gr. 80)

| Code              | For Chain Size in. | Working Load Limit lbs. | Weight / ea. lbs | Dimensions in. |      |
|-------------------|--------------------|-------------------------|------------------|----------------|------|
|                   |                    |                         |                  | F              | H    |
| S317-732          | 7/32               | 2,500                   | .77              | 3.94           | 1.10 |
| S317-014          | 1/4 - 5/16         | 4,500                   | 1.79             | 4.69           | 1.34 |
| S317-038          | 3/8                | 7,100                   | 3.19             | 5.63           | 1.77 |
| S317-012          | 1/2                | 12,000                  | 6.75             | 7.05           | 2.13 |
| S317-058          | 5/8                | 18,100                  | 11.94            | 8.35           | 2.48 |
| Safety Factor 4:1 |                    |                         |                  |                |      |



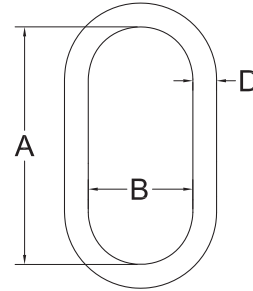
### Swivel Self Locking Hooks (Gr. 80)

| Code              | For Chain Size in. | Working Load Limit lbs. | Weight / ea. lbs | Dimensions in. |      |      |      |
|-------------------|--------------------|-------------------------|------------------|----------------|------|------|------|
|                   |                    |                         |                  | F              | H    | I    | J    |
| S326-732          | 7/32               | 2,500                   | 1.26             | 4.48           | 1.14 | 0.67 | 1.26 |
| S326-014          | 1/4 - 5/16         | 4,500                   | 2.62             | 5.94           | 1.38 | 0.79 | 1.42 |
| S326-038          | 3/8                | 7,100                   | 4.70             | 6.75           | 1.77 | 1.06 | 1.63 |
| S326-012          | 1/2                | 12,000                  | 8.64             | 8.23           | 2.09 | 1.70 | 1.81 |
| S326-058          | 5/8                | 18,100                  | 17.00            | 10.43          | 2.44 | 1.56 | 2.36 |
| Safety Factor 4:1 |                    |                         |                  |                |      |      |      |



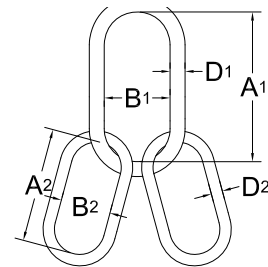
## Master Oblong Links (alloy steel)

| Code              | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |       |       |
|-------------------|-------------------------|-------------------|----------------|-------|-------|
|                   |                         |                   | A              | B     | D     |
| A342-012          | 4,100                   | 0.89              | 5              | 2 1/2 | 1/2   |
| A342-058          | 5,500                   | 1.63              | 6              | 3     | 5/8   |
| A342-034          | 8,600                   | 2.25              | 5 1/2          | 2 3/4 | 3/4   |
| A342-001          | 20,300                  | 5.00              | 7              | 3 1/2 | 1     |
| A342-114          | 29,300                  | 9.75              | 8 3/4          | 4 3/8 | 1 1/4 |
| A342-112          | 39,900                  | 17.12             | 10 1/2         | 5 1/4 | 1 1/2 |
| A342-134          | 52,100                  | 26.12             | 12             | 6     | 1 3/4 |
| A342-002          | 81,400                  | 41.12             | 14             | 7     | 2     |
| A342-214          | 99,500                  | 54.80             | 16             | 8     | 2 1/4 |
| A342-212          | 122,750                 | 71.60             | 16             | 8     | 2 1/2 |
| A342-234          | 148,500                 | 87.70             | 16             | 9 1/2 | 2 3/4 |
| Safety Factor 6:1 |                         |                   |                |       |       |



## Welded Master Link Assemblies

| Code              | Working Load Limit lbs. (at 60°) | Weight / ea. lbs. | A <sub>1</sub> | A <sub>2</sub> | B <sub>1</sub> | B <sub>2</sub> | D <sub>1</sub> | D <sub>2</sub> |
|-------------------|----------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| SUB-012           | 5,460                            | 1.0               | 5              | 1 1/8          | 2 1/2          | 5/8            | 1/2            | 11/32          |
| SUB-034           | 9,100                            | 2.6               | 5 1/2          | 1 9/16         | 2 3/4          | 7/8            | 3/4            | 15/32          |
| SUB-001           | 18,400                           | 6.1               | 7              | 2 1/4          | 3 1/2          | 1 1/4          | 1              | 21/32          |
| SUB-114           | 31,200                           | 13.3              | 8 3/4          | 3 1/8          | 4 3/8          | 1 3/4          | 1 1/4          | 29/32          |
| SUB-112           | 47,000                           | 24.3              | 10 1/2         | 4              | 5 1/4          | 2 1/4          | 1 1/2          | 1 5/32         |
| SUB-134           | 73,500                           | 36.1              | 12             | 4 3/8          | 6              | 2 3/8          | 1 3/4          | 1 9/32         |
| SUB-002           | 88,900                           | 57.4              | 14             | 5 1/4          | 7              | 2 3/4          | 2              | 1 17/32        |
| SUB-214           | 123,900                          | 83.9              | 16             | 6              | 8              | 3              | 2 1/4          | 1 25/32        |
| SUB-234           | 187,800                          | 129.7             | 16             | 7              | 9              | 3 1/2          | 2 3/4          | 2 1/32         |
| Safety Factor 4:1 |                                  |                   |                |                |                |                |                |                |

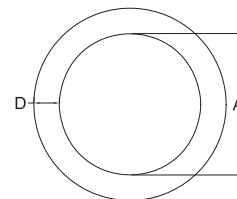


## ACCESSORIES FOR CABLE SLING

### Weldless Master Rings (carbon steel)

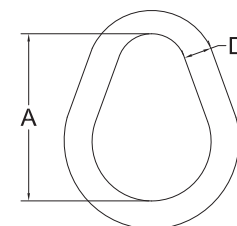
| Code              | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |       |
|-------------------|-------------------------|-------------------|----------------|-------|
|                   |                         |                   | A              | D     |
| S643-078004       | 7,200                   | 2.7               | 4              | 7/8   |
| S643-078512       | 5,600                   | 3.4               | 5 1/2          | 7/8   |
| S643-001004       | 10,800                  | 3.5               | 4              | 1     |
| S643-118006       | 10,400                  | 6.5               | 6              | 1 1/8 |
| S643-114005       | 17,000                  | 7.0               | 5              | 1 1/4 |
| S643-138006       | 19,000                  | 10.6              | 6              | 1 3/8 |
| Safety Factor 6:1 |                         |                   |                |       |

Federal Specification : RR-C-271D



### Pear Shape Weldless Links (galvanized carbon steel)

| Code              | Working Load Limit lbs. | Weight / ea. lbs. | Dimensions in. |       |
|-------------------|-------------------------|-------------------|----------------|-------|
|                   |                         |                   | A              | D     |
| G341- 038         | 1,600                   | 0.13              | 2 1/4          | 3/8   |
| G341- 012         | 2,900                   | 0.55              | 3              | 1/2   |
| G341- 058         | 4,200                   | 1.10              | 3 3/4          | 5/8   |
| G341- 034         | 6,000                   | 1.95              | 4 1/2          | 3/4   |
| G341- 078         | 8,300                   | 2.78              | 5 1/4          | 7/8   |
| G341- 001         | 10,800                  | 4.30              | 6              | 1     |
| G341-114          | 16,750                  | 8.50              | 7 3/4          | 1 1/4 |
| G341-138          | 20,500                  | 11.50             | 8 1/4          | 1 3/8 |
| Safety Factor 6:1 |                         |                   |                |       |





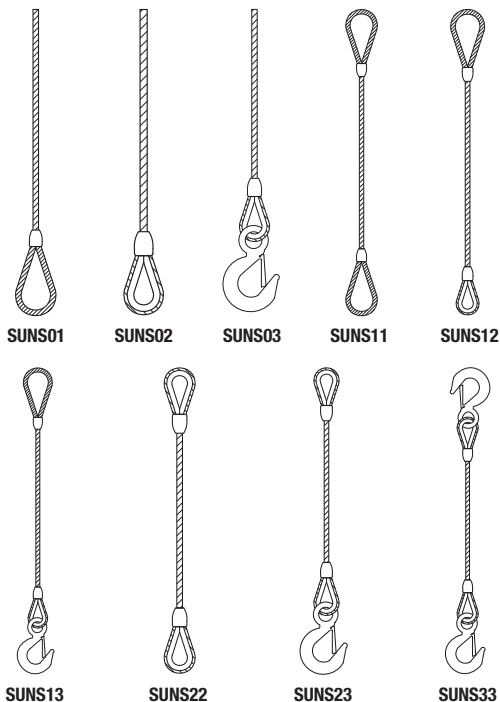


## Wire Rope Slings

### Single, 6 X 26 / 6 x 19 Steel Core

| Diameter<br>in. | Standard loops<br>Inside Dim.<br>in. | Hooks<br>Capacity<br>TON | Working Load Limit<br>lbs. |        |         |        |        |
|-----------------|--------------------------------------|--------------------------|----------------------------|--------|---------|--------|--------|
|                 |                                      |                          | Vertical                   | Choker | Basket  |        |        |
|                 |                                      |                          | 90 °                       | 90 °   | 60 °    | 45 °   | 30 °   |
| 1/4             | 2 x 4                                | 1.5                      | 1,100                      | 800    | 1,900   | 1,500  | 1,120  |
| 3/8             | 3 x 6                                | 2.0                      | 2,400                      | 1,800  | 4,100   | 3,300  | 2,400  |
| 1/2             | 4 x 8                                | 3.0                      | 4,400                      | 3,200  | 7,600   | 6,200  | 4,400  |
| 5/8             | 5 x 10                               | 4.5                      | 6,800                      | 5,000  | 11,700  | 9,600  | 6,800  |
| 3/4             | 6 x 12                               | 7.0                      | 9,800                      | 7,200  | 16,900  | 13,800 | 9,800  |
| 7/8             | 7 x 14                               | 11.0                     | 13,200                     | 9,600  | 22,800  | 18,600 | 13,200 |
| 1               | 8 x 16                               | 11.0                     | 17,000                     | 12,600 | 29,400  | 24,000 | 17,000 |
| 1 1/8           | 9 x 18                               | 11.0                     | 20,000                     | 15,800 | 34,600  | 28,200 | 20,000 |
| 1 1/4           | 10 x 20                              | 15.0                     | 26,000                     | 19,400 | 45,000  | 36,700 | 26,000 |
| 1 3/8           | 11 x 22                              | 15.0                     | 30,000                     | 24,000 | 51,900  | 42,400 | 30,000 |
| 1 1/2           | 12 x 24                              | 22.0                     | 36,000                     | 28,000 | 62,300  | 50,900 | 36,000 |
| 1 3/4           | 14 x 28                              | 37.0                     | 48,900                     | 36,600 | 85,600  | 69,800 | 48,900 |
| 2               | 16 x 32                              | 45.0                     | 64,000                     | 48,000 | 110,000 | 90,000 | 64,000 |

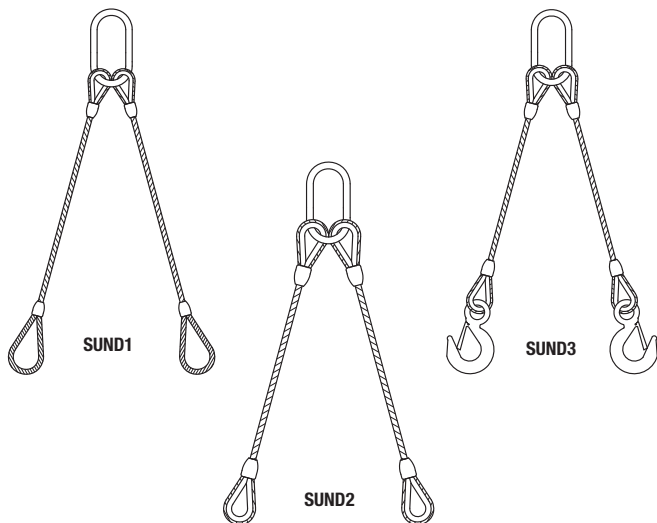
Safety Factor 5:1



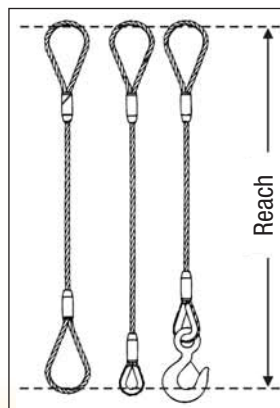
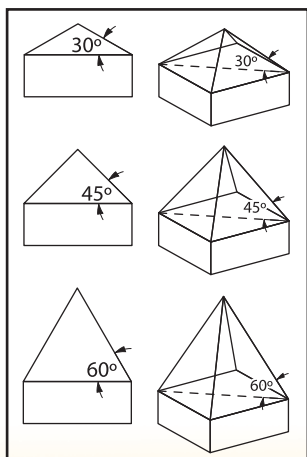
### Double, 6 X 26 / 6 x 19 Steel Core

| Diameter<br>in. | Oblong*<br>Master Link | Hooks<br>Capacity<br>TON | Working Load Limit<br>lbs. |        |        |
|-----------------|------------------------|--------------------------|----------------------------|--------|--------|
|                 |                        |                          | 60 °                       | 45 °   | 30 °   |
| 1/4             | G341-012               | 1.5                      | 1,900                      | 1,500  | 1,100  |
| 3/8             | G341-058               | 2.0                      | 4,100                      | 3,300  | 2,400  |
| 1/2             | G341-078               | 3.0                      | 7,600                      | 6,200  | 4,400  |
| 5/8             | G341-114               | 4.5                      | 11,700                     | 9,600  | 6,800  |
| 3/4             | G341-114               | 7.0                      | 16,900                     | 13,800 | 9,800  |
| 7/8             | G341-114               | 11.0                     | 22,800                     | 18,600 | 13,200 |
| 1               | A342-112               | 11.0                     | 29,400                     | 24,000 | 17,000 |
| 1 1/8           | A342-112               | 15.0                     | 34,600                     | 28,200 | 20,000 |
| 1 1/4           | A342-134               | 15.0                     | 45,000                     | 36,700 | 26,000 |
| 1 3/8           | A342-002               | 15.0                     | 51,900                     | 42,400 | 30,000 |
| 1 1/2           | A342-002               | 22.0                     | 62,300                     | 50,900 | 36,000 |

Safety Factor 5:1



\* See dimensions on page 63



Reach of slings  
is always measured  
from bearing point  
to bearing point.

# Wire Rope Slings

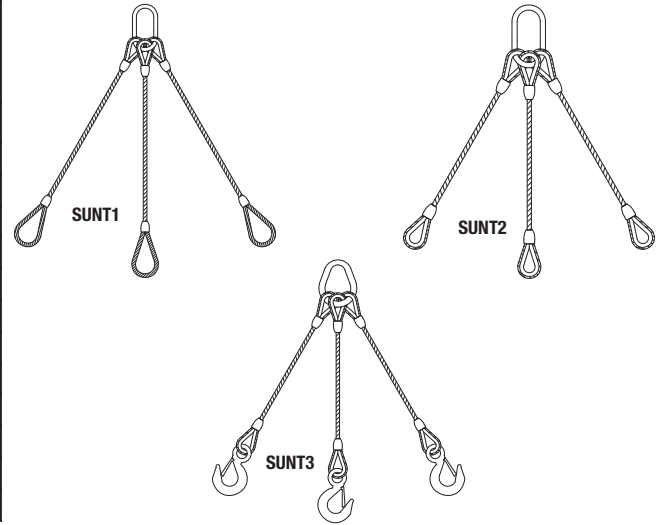


## Triple, 6 X 26 / 6 x 19 Steel Core

| Diameter in. | Oblong * Master Link | Hooks Capacity TON | Working Load Limit lbs. |        |        |
|--------------|----------------------|--------------------|-------------------------|--------|--------|
|              |                      |                    | 60 °                    | 45 °   | 30 °   |
| 1/4          | G341-058             | 1.5                | 2,900                   | 2,300  | 1,600  |
| 3/8          | G341-078             | 2.0                | 6,200                   | 5,000  | 3,600  |
| 1/2          | G341-114             | 3.0                | 11,400                  | 9,300  | 6,600  |
| 5/8          | A342-114             | 4.5                | 17,600                  | 14,400 | 10,200 |
| 3/4          | A342-112             | 7.0                | 25,400                  | 20,700 | 14,700 |
| 7/8          | A342-134             | 11.0               | 34,200                  | 27,900 | 19,800 |
| 1            | A342-002             | 11.0               | 44,100                  | 36,000 | 25,500 |
| 1 1/8        | A342-214             | 15.0               | 51,900                  | 42,400 | 30,000 |
| 1 1/4        | A342-212             | 15.0               | 67,500                  | 55,100 | 39,000 |
| 1 3/8        | A342-234             | 15.0               | 77,900                  | 63,600 | 45,000 |
| 1 1/2        | A342-234             | 22.0               | 93,500                  | 76,300 | 54,000 |

Safety Factor 5:1

\* See dimensions on page 63

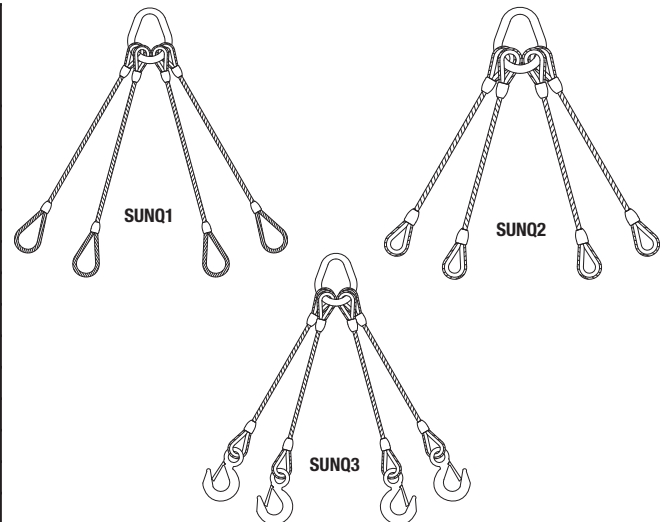


## Quadruple, 6 X 26 / 6 x 19 Steel Core

| Diameter in. | Oblong * Master Link | Hooks Capacity TON | Working Load Limit lbs. |         |        |
|--------------|----------------------|--------------------|-------------------------|---------|--------|
|              |                      |                    | 60 °                    | 45 °    | 30 °   |
| 1/4          | G341-058             | 1.5                | 3,800                   | 3,100   | 2,200  |
| 3/8          | G341-078             | 2.0                | 8,300                   | 6,700   | 4,800  |
| 1/2          | G341-114             | 3.0                | 15,200                  | 12,400  | 8,800  |
| 5/8          | A342-114             | 4.5                | 23,500                  | 19,200  | 13,600 |
| 3/4          | A342-112             | 7.0                | 33,900                  | 27,700  | 19,600 |
| 7/8          | A342-134             | 11.0               | 45,700                  | 37,300  | 26,400 |
| 1            | A342-002             | 11.0               | 58,800                  | 48,000  | 34,000 |
| 1 1/8        | A342-214             | 15.0               | 69,200                  | 56,500  | 40,000 |
| 1 1/4        | A342-212             | 15.0               | 90,000                  | 73,500  | 52,000 |
| 1 3/8        | A342-234             | 15.0               | 103,900                 | 84,800  | 60,000 |
| 1 1/2        | A342-234             | 22.0               | 124,700                 | 101,800 | 72,000 |

Safety Factor 5:1

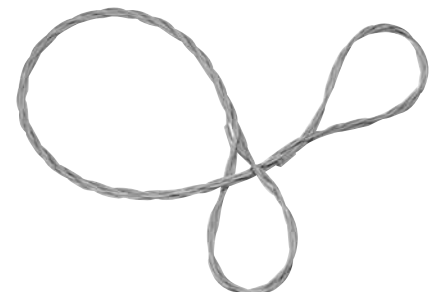
\* See dimensions on page 63



## Wire Rope Slings, extra-flexibles "Solflex"

| Sling Diameter | Working Load Limit lbs. |        |             |             |             |
|----------------|-------------------------|--------|-------------|-------------|-------------|
|                | Vertical                | Choker | Basket 60 ° | Basket 45 ° | Basket 30 ° |
| 3/8            | 1,500                   | 1,000  | 2,500       | 2,100       | 1,500       |
| 1/2            | 2,600                   | 1,800  | 4,500       | 3,600       | 2,600       |
| 5/8            | 4,000                   | 2,800  | 6,900       | 5,600       | 4,000       |
| 3/4            | 6,000                   | 4,200  | 10,300      | 8,400       | 6,000       |
| 7/8            | 8,000                   | 5,600  | 13,800      | 11,300      | 8,000       |
| 1              | 10,000                  | 7,000  | 17,300      | 14,100      | 10,000      |
| 1 1/4          | 14,000                  | 9,800  | 24,200      | 19,700      | 14,000      |
| 1 1/2          | 20,000                  | 14,000 | 34,600      | 28,200      | 20,000      |
| 1 3/4          | 32,000                  | 22,400 | 55,400      | 45,200      | 32,000      |
| 2              | 40,000                  | 28,000 | 69,200      | 56,500      | 40,000      |

Safety Factor 5:1





# Secutex™

Protect your investment...

## Secutex™ extends the life of a sling up to 10 times !

### This is SECUTEX™...

**Secutex™** is an excellent polyurethane elastomer with a particularly advantageous combination of physical and chemical properties :

#### High structure retention

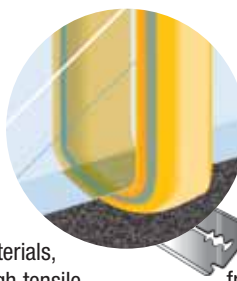
Compared to other chemical materials, **Secutex™** has an extremely high tensile strength. The **Secutex™** material can be stretched to 500% of its original length without breaking.

#### High flexibility

Compared to conventional rubber, **Secutex™** offers a considerably higher flexibility. And even under extreme temperature fluctuations, **Secutex™** remains flexible.

#### Extremely hard wearing

**Secutex™** is practically indestructible. In wet wear-resistance tests, **SECUTEX™** fared better than many metals.



#### Extreme cut-resistance

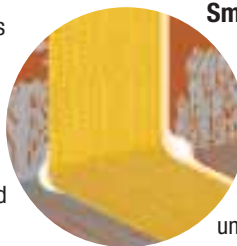
**Secutex™** coated protective sleeves and lifting slings are very flexible, to form around the sharp edges of the load. The extreme structural resistance of **Secutex™** material prevents the lifting sling from being cut.

#### Wear and abrasion resistance

**Secutex™** coatings protect the lifting slings against rough surfaces and sharp edges, making **Secutex™** protective sleeves and direct coatings the most economical solution.

#### Smooth goods handling

The **Secutex™** protective layer forms softly around the load and increases the radius in the critical edges so that the lifting forces are more evenly distributed over a wide area and the freight remains undamaged.



#### Just lift and tilt

By using **SECUTEX** sliding sleeves, heavy loads with cutting edges can easily be lifted and tilted without incurring costs for any special equipment.

#### Now the easiest solution :

The sling equipped with the **SECUTEX** sliding sleeve is hung in the crane-hook and adjusted to the load. During lifting, the sling will move in the sliding sleeve. The load can then be tilted up to 90° without any problems. If you deposit the load in the same way to the other side, you will be able to turn the load by 180°.

## Highest Quality Synthetic Slings



Our standards and our experienced team guarantees a quality product.

Our manufacturing process combined with our current factory means Ben-Mor can manufacture your slings when you need them.



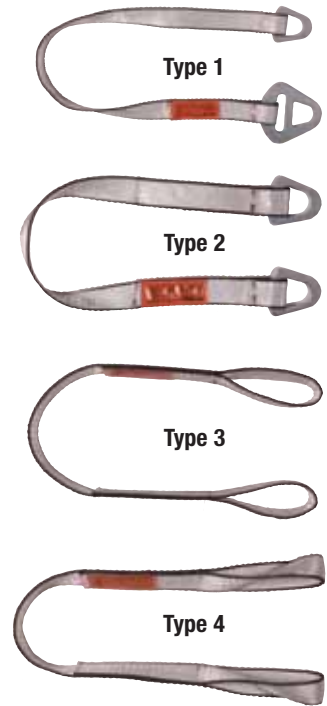
## Synthetic Web Sling type # 1 - 2 - 3 - 4

Type 1 & 2 : zinc plated steel triangles (better resistance to corrosion)

| Width<br>in.      | SINGLE PLY                 |        |               |               |               |
|-------------------|----------------------------|--------|---------------|---------------|---------------|
|                   | Working Load Limit<br>lbs. |        |               |               |               |
|                   | Vertical                   | Choker | Basket<br>60° | Basket<br>45° | Basket<br>30° |
| 1                 | 1,600                      | 1,280  | 2,770         | 2,260         | 1,600         |
| 2                 | 3,100                      | 2,480  | 5,360         | 4,380         | 3,100         |
| 3                 | 4,700                      | 3,760  | 8,140         | 6,640         | 4,700         |
| 4                 | 6,200                      | 4,960  | 10,730        | 8,760         | 6,200         |
| 5                 | 7,800                      | 6,240  | 13,500        | 11,020        | 7,800         |
| 6                 | 9,300                      | 7,440  | 16,100        | 13,150        | 9,300         |
| 8                 | 11,750                     | 9,400  | 20,350        | 16,610        | 11,750        |
| 10                | 14,700                     | 11,760 | 25,460        | 20,780        | 14,700        |
| 12                | 17,650                     | 14,120 | 30,560        | 24,950        | 17,650        |
| 16                | 23,500                     | 18,800 | 40,700        | 33,220        | 23,500        |
| Safety Factor 5:1 |                            |        |               |               |               |

| Width<br>in.      | DOUBLE PLY                 |        |               |               |               |
|-------------------|----------------------------|--------|---------------|---------------|---------------|
|                   | Working Load Limit<br>lbs. |        |               |               |               |
|                   | Vertical                   | Choker | Basket<br>60° | Basket<br>45° | Basket<br>30° |
| 1                 | 3,100                      | 2,400  | 5,300         | 4,300         | 3,100         |
| 2                 | 6,200                      | 4,900  | 10,700        | 8,700         | 6,200         |
| 3                 | 8,800                      | 7,000  | 15,200        | 12,400        | 8,800         |
| 4                 | 11,000                     | 8,800  | 19,000        | 15,500        | 11,000        |
| 5                 | 13,700                     | 10,900 | 23,700        | 19,300        | 13,700        |
| 6                 | 16,500                     | 13,200 | 28,500        | 23,300        | 16,500        |
| 8                 | 22,750                     | 18,200 | 39,400        | 32,100        | 22,750        |
| 10                | 28,400                     | 22,700 | 49,100        | 40,100        | 28,400        |
| 12                | 34,100                     | 27,200 | 59,000        | 48,200        | 34,100        |
| 16                | 45,400                     | 36,300 | 78,600        | 64,100        | 45,400        |
| Safety Factor 5:1 |                            |        |               |               |               |

Note : 1" width not available for types 1 and 2

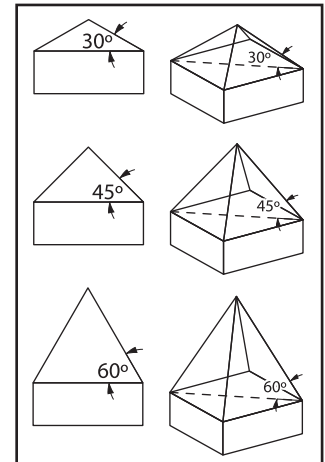


## Synthetic Web Sling type # 3 - 4

| Width<br>in.      | TRIPLE PLY                 |        |               |               |               |
|-------------------|----------------------------|--------|---------------|---------------|---------------|
|                   | Working Load Limit<br>lbs. |        |               |               |               |
|                   | Vertical                   | Choker | Basket<br>60° | Basket<br>45° | Basket<br>30° |
| 1                 | 3,800                      | 3,000  | 6,500         | 5,300         | 3,800         |
| 2                 | 7,400                      | 5,900  | 12,800        | 10,400        | 7,400         |
| 3                 | 11,200                     | 8,900  | 19,300        | 15,800        | 11,200        |
| 4                 | 14,800                     | 11,800 | 25,600        | 20,900        | 14,800        |
| 5                 | 18,700                     | 14,900 | 32,300        | 26,400        | 18,700        |
| 6                 | 22,300                     | 17,800 | 38,600        | 31,500        | 22,300        |
| 8                 | 28,200                     | 22,500 | 48,800        | 39,800        | 28,200        |
| 10                | 35,200                     | 28,100 | 60,900        | 49,700        | 35,200        |
| 12                | 42,300                     | 33,800 | 73,200        | 59,800        | 42,300        |
| Safety Factor 5:1 |                            |        |               |               |               |

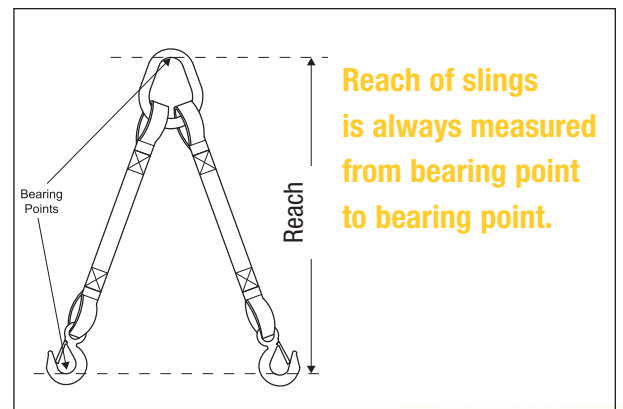
| Width<br>in.      | QUADRUPLE PLY              |        |               |               |               |
|-------------------|----------------------------|--------|---------------|---------------|---------------|
|                   | Working Load Limit<br>lbs. |        |               |               |               |
|                   | Vertical                   | Choker | Basket<br>60° | Basket<br>45° | Basket<br>30° |
| 1                 | 5,500                      | 4,400  | 9,500         | 7,700         | 5,500         |
| 2                 | 11,000                     | 8,800  | 19,000        | 15,500        | 11,000        |
| 3                 | 16,450                     | 13,100 | 28,400        | 23,200        | 16,450        |
| 4                 | 20,400                     | 16,300 | 35,300        | 28,800        | 20,400        |
| 5                 | 25,500                     | 20,400 | 44,100        | 36,000        | 25,500        |
| 6                 | 30,600                     | 24,400 | 52,900        | 43,200        | 30,600        |
| 8                 | 37,600                     | 30,000 | 65,100        | 53,100        | 37,600        |
| 10                | 47,000                     | 37,600 | 81,400        | 66,400        | 47,000        |
| 12                | 56,400                     | 45,100 | 97,600        | 79,700        | 56,400        |
| Safety Factor 5:1 |                            |        |               |               |               |

Material available : Polyester, Nylon  
Class 7 : 9,800 lbs/in. = Fabric Tensile



**PRODUCT CODE**  
Ex: 1 9 01 P 3 B 003 - 06

|               |                                  |              |                                       |             |                                      |                              |               |
|---------------|----------------------------------|--------------|---------------------------------------|-------------|--------------------------------------|------------------------------|---------------|
| <b>NB PLY</b> | <b>CAPACITY</b><br>(9800 LBS/PO) | <b>WIDTH</b> | <b>MATERIAL</b><br>P = POLY N = NYLON | <b>TYPE</b> | <b>COLOR</b><br>B = WHITE J = YELLOW | <b>LENGTH</b><br><b>FEET</b> | <b>INCHES</b> |
| 1 ply         | 9800 lbs/po                      | 1"           | Poly                                  | Type 3      | White                                | 3'                           | 6"            |







## Synthetic Web Sling type # 5



Type 5

| SINGLE PLY   |                            |        |               |               |               |
|--------------|----------------------------|--------|---------------|---------------|---------------|
| Width<br>in. | Working Load Limit<br>lbs. |        |               |               |               |
|              | Vertical                   | Choker | Basket<br>60° | Basket<br>45° | Basket<br>30° |
| 1            | 3,200                      | 2,560  | 5,540         | 4,520         | 3,200         |
| 2            | 6,200                      | 4,960  | 10,730        | 8,760         | 6,200         |
| 3            | 9,400                      | 6,720  | 14,540        | 11,870        | 8,400         |
| 4            | 12,400                     | 9,920  | 21,470        | 17,530        | 12,400        |
| 5            | 15,600                     | 12,480 | 27,010        | 22,050        | 15,600        |
| 6            | 18,600                     | 14,880 | 32,210        | 26,300        | 18,600        |

Safety Factor 5:1

| DOUBLE PLY   |                            |        |               |               |               |
|--------------|----------------------------|--------|---------------|---------------|---------------|
| Width<br>in. | Working Load Limit<br>lbs. |        |               |               |               |
|              | Vertical                   | Choker | Basket<br>60° | Basket<br>45° | Basket<br>30° |
| 1            | 6,200                      | 4,900  | 10,700        | 8,700         | 6,200         |
| 2            | 12,400                     | 10,700 | 23,200        | 18,900        | 13,400        |
| 3            | 17,600                     | 14,000 | 30,400        | 24,800        | 17,600        |
| 4            | 22,000                     | 17,600 | 38,100        | 31,100        | 22,000        |
| 5            | 27,400                     | 21,900 | 47,400        | 38,700        | 27,400        |
| 6            | 33,000                     | 26,400 | 57,100        | 46,600        | 33,000        |

Safety Factor 5:1

| TRIPLE PLY   |                            |        |               |               |               |
|--------------|----------------------------|--------|---------------|---------------|---------------|
| Width<br>in. | Working Load Limit<br>lbs. |        |               |               |               |
|              | Vertical                   | Choker | Basket<br>60° | Basket<br>45° | Basket<br>30° |
| 1            | 7,900                      | 6,300  | 13,600        | 11,100        | 7,900         |
| 2            | 15,800                     | 12,600 | 27,300        | 22,300        | 15,800        |
| 3            | 22,900                     | 18,300 | 39,600        | 32,300        | 22,900        |
| 4            | 30,600                     | 24,400 | 52,900        | 43,200        | 30,600        |
| 5            | 38,200                     | 30,500 | 66,100        | 54,000        | 38,200        |
| 6            | 45,800                     | 36,600 | 79,300        | 64,700        | 45,800        |

Safety Factor 5:1

| QUADRUPLE PLY |                            |        |               |               |               |
|---------------|----------------------------|--------|---------------|---------------|---------------|
| Width<br>in.  | Working Load Limit<br>lbs. |        |               |               |               |
|               | Vertical                   | Choker | Basket<br>60° | Basket<br>45° | Basket<br>30° |
| 1             | 10,200                     | 8,100  | 17,600        | 14,400        | 10,200        |
| 2             | 19,800                     | 15,800 | 34,200        | 27,900        | 19,800        |
| 3             | 30,000                     | 24,000 | 51,900        | 42,400        | 30,000        |
| 4             | 39,600                     | 31,600 | 68,500        | 55,900        | 39,600        |
| 5             | 49,900                     | 39,900 | 86,400        | 70,500        | 49,900        |
| 6             | 59,500                     | 47,600 | 103,000       | 84,100        | 59,500        |

Safety Factor 5:1

## Synthetic Web Sling type CARGO



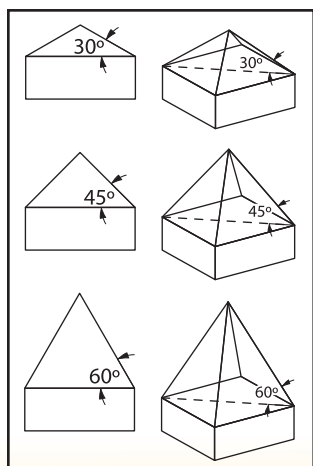
| SINGLE PLY   |                            |
|--------------|----------------------------|
| Width<br>in. | Working Load Limit<br>lbs. |
|              | Vertical<br>Basket         |
| 2            | 6,200                      |
| 4            | 12,400                     |
| 6            | 15,400                     |
| 8            | 20,400                     |
| 12           | 30,800                     |
| 16           | 38,000                     |
| 20           | 45,000                     |
| 24           | 52,000                     |

Safety Factor 5:1

| DOUBLE PLY   |                            |
|--------------|----------------------------|
| Width<br>in. | Working Load Limit<br>lbs. |
|              | Vertical<br>Basket         |
| 2            | 12,400                     |
| 4            | 24,800                     |
| 6            | 28,600                     |
| 8            | 38,000                     |
| 12           | 57,200                     |
| 16           | 75,000                     |
| 20           | 90,000                     |
| 24           | 110,000                    |

Safety Factor 5:1

Material available : Polyester, Nylon  
Class 7 : 9,800 lbs/in. = Fabric Tensile



### PRODUCT CODE

Ex: 1 9 01 P 3 B 003 - 06

|               |                                  |              |                                       |             |                                      |               |             |               |
|---------------|----------------------------------|--------------|---------------------------------------|-------------|--------------------------------------|---------------|-------------|---------------|
| <b>NB PLY</b> | <b>CAPACITY</b><br>(9800 LBS/PO) | <b>WIDTH</b> | <b>MATERIAL</b><br>P = POLY N = NYLON | <b>TYPE</b> | <b>COLOR</b><br>B = WHITE J = YELLOW | <b>LENGTH</b> | <b>FEET</b> | <b>INCHES</b> |
| 1             | 9800                             | 1"           | Poly                                  | Type 3      | White                                | 3'            | 6"          |               |

# Environmental considerations



## WARNING

Nylon and Polyester are seriously degraded at temperatures above 200° F.

Prolonged exposure to ultraviolet light adversely affects nylon and polyester. Slings become bleached and stiff when exposed to sunlight or arc welding.

Many chemicals have an adverse effect on nylon and polyester. See chemicals chart (this page).

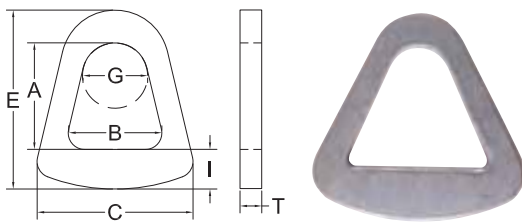
| Chemicals | OK     |
|-----------|--------|
|           | NOT OK |

|                           | Nylon  | Polyester |
|---------------------------|--------|-----------|
| Acids                     | NOT OK | OK *      |
| Alcohols                  | OK     | OK        |
| Aldehydes                 | OK     | NOT OK    |
| Strong Alkalis            | OK     | OK **     |
| Bleaching Agents          | NOT OK | OK        |
| Dry Cleaning Solvents     | OK     | OK        |
| Ethers                    | OK     | NOT OK    |
| Halogenated Hydro-Carbons | OK     | OK        |
| Hydro-Carbons             | OK     | OK        |
| Ketones                   | OK     | OK        |
| Oils Crude                | OK     | OK        |
| Oils Lubricating          | OK     | OK        |
| Soap Detergents           | OK     | OK        |
| Water & Seawater          | OK     | OK        |
| Weak Alkalis              | OK     | OK        |

\* Disintegrated by concentrated sulfuric acid.

\*\* Degraded by strong alkalis at elevated temperature.

## Steel Triangles, zinc plated\*

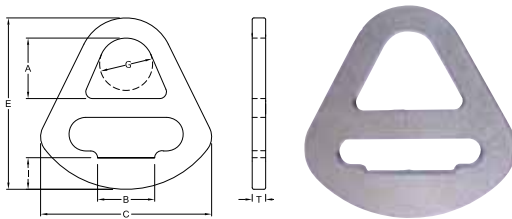


| Code  | Dimensions in. |        |         |          |       |        |     | Weight Approx. lbs. | Working Load Limit lbs. |
|-------|----------------|--------|---------|----------|-------|--------|-----|---------------------|-------------------------|
|       | A              | B      | C       | E        | G     | I      | T   |                     |                         |
| TAC2  | 2 5/16         | 2 1/8  | 3 3/4   | 3 7/8    | 1 3/4 | 1      | 1/2 | 1                   | 6,600                   |
| TAC3  | 3 5/16         | 3 1/16 | 5       | 5 3/16   | 2     | 1 1/4  | 1/2 | 1.6                 | 8,900                   |
| TAC4  | 3 7/8          | 4 5/16 | 6 5/8   | 6 7/16   | 2     | 1 5/8  | 1/2 | 2.7                 | 11,600                  |
| TAC5  | 4 15/16        | 5 3/16 | 7 15/16 | 7 7/8    | 2 1/2 | 2      | 1/2 | 3.5                 | 14,000                  |
| TAC6  | 5 9/16         | 6 1/8  | 9 1/4   | 9        | 2 3/4 | 2 5/16 | 1/2 | 5.3                 | 16,800                  |
| TAC8  | 7 3/16         | 8 1/4  | 12      | 11 7/16  | 3 5/8 | 2 7/8  | 3/4 | 12                  | 22,400                  |
| TAC10 | 8 1/4          | 10 1/8 | 14 1/8  | 13 1/4   | 4 7/8 | 3 5/8  | 3/4 | 17                  | 28,000                  |
| TAC12 | 8              | 12 3/8 | 16 7/16 | 13 13/16 | 5     | 4 1/16 | 3/4 | 19                  | 32,000                  |

Safety Factor 5:1

\* Better corrosion resistance

## Steel Chokers, zinc plated\*



| Code  | Dimensions in. |        |        |         |       |         |     | Weight Approx. lbs. | Working Load Limit lbs. |
|-------|----------------|--------|--------|---------|-------|---------|-----|---------------------|-------------------------|
|       | A              | B      | C      | E       | G     | I       | T   |                     |                         |
| CAC2  | 2 1/4          | 2 1/8  | 5 1/2  | 6       | 2     | 1 1/16  | 1/2 | 2                   | 6,600                   |
| CAC3  | 3 3/16         | 3 1/8  | 7      | 7 1/2   | 2     | 1 3/16  | 1/2 | 2.9                 | 8,900                   |
| CAC4  | 3 1/2          | 4 1/8  | 9 9/16 | 9 5/16  | 2 1/2 | 1 13/16 | 1/2 | 6                   | 11,600                  |
| CAC5  | 4 7/16         | 5 1/8  | 11 5/8 | 10 9/16 | 2 3/4 | 2 1/16  | 1/2 | 7                   | 14,000                  |
| CAC6  | 4 9/16         | 6 1/8  | 12 3/4 | 12      | 2 7/8 | 2 11/16 | 1/2 | 9.8                 | 16,800                  |
| CAC8  | 6 7/16         | 8 1/8  | 16 1/2 | 14 7/16 | 5     | 2 13/16 | 3/4 | 24                  | 22,400                  |
| CAC10 | 7 5/8          | 10 1/4 | 18 3/4 | 16 1/2  | 5 1/8 | 3 1/2   | 3/4 | 28                  | 28,000                  |
| CAC12 | 9 3/4          | 12 1/8 | 22 5/8 | 19 1/4  | 5 1/2 | 4 1/4   | 3/4 | 40                  | 32,000                  |

Safety Factor 5:1

\* Better corrosion resistance



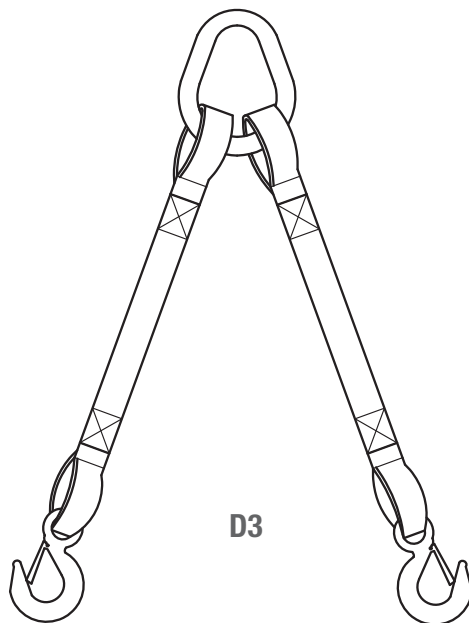
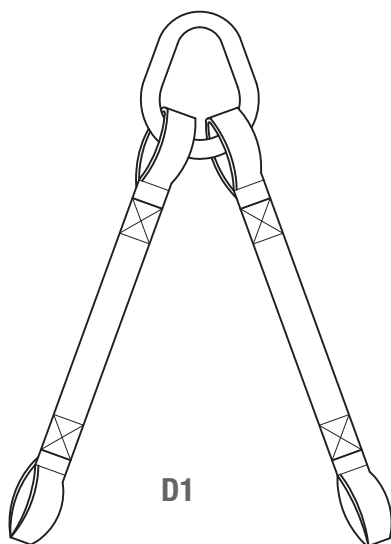
## Endless roundslings

| Code   | Color Code | Working Load Limit<br>lbs |        |               |               |               | Minimum<br>Length<br>ft. | Diameter<br>in. | Weight<br>lbs/ft |
|--------|------------|---------------------------|--------|---------------|---------------|---------------|--------------------------|-----------------|------------------|
|        |            | Vertical                  | Choker | Basket<br>60° | Basket<br>45° | Basket<br>30° |                          |                 |                  |
| RS 30  | Purple     | 3,000                     | 2,400  | 5,100         | 4,200         | 3,000         | 3                        | .75             | .25              |
| RS 40  | Black      | 4,000                     | 3,200  | 6,900         | 5,600         | 4,000         | 3                        | .80             | .35              |
| RS 60  | Green      | 6,000                     | 4,800  | 10,300        | 8,400         | 6,000         | 3                        | .90             | .40              |
| RS 90  | Yellow     | 9,000                     | 7,200  | 15,500        | 12,700        | 9,000         | 3                        | 1.00            | .50              |
| RS 120 | Tan        | 12,000                    | 9,600  | 20,700        | 16,900        | 12,000        | 3                        | 1.25            | .75              |
| RS 140 | Red        | 14,000                    | 11,200 | 24,200        | 19,700        | 14,000        | 3                        | 1.30            | .85              |
| RS 170 | Orange     | 17,000                    | 13,600 | 29,400        | 24,000        | 17,000        | 6                        | 1.60            | .95              |
| RS 230 | Blue       | 23,000                    | 18,400 | 39,800        | 32,500        | 23,000        | 6                        | 1.65            | 1.25             |
| RS 260 | Orange     | 26,000                    | 20,800 | 45,000        | 36,700        | 26,000        | 6                        | 1.75            | 1.45             |
| RS 320 | Grey       | 32,000                    | 25,600 | 55,400        | 45,200        | 32,000        | 6                        | 2.15            | 1.75             |
| RS 400 | Orange     | 40,000                    | 32,000 | 69,200        | 56,500        | 40,000        | 6                        | 2.45            | 2.25             |
| RS 540 | Brown      | 54,000                    | 43,200 | 93,500        | 76,300        | 54,000        | 8                        | 3.00            | 2.75             |
| RS 680 | Olive      | 68,000                    | 54,400 | 117,700       | 96,100        | 68,000        | 8                        | 3.25            | 3.60             |
| RS 900 | Black      | 90,000                    | 72,000 | 155,800       | 127,200       | 90,000        | 8                        | 3.75            | 4.10             |

Safety Factor 5:1

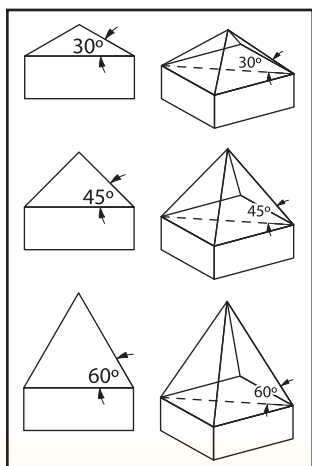


## Synthetic Web Sling, double



| Number<br>of plys | Material<br>Width<br>in. | Working Load Limit<br>lbs. |        |        |
|-------------------|--------------------------|----------------------------|--------|--------|
|                   |                          | 60 °                       | 45 °   | 30 °   |
| 1                 | 1                        | 2,770                      | 2,260  | 1,600  |
| 1                 | 2                        | 5,360                      | 4,380  | 3,100  |
| 1                 | 3                        | 8,140                      | 6,640  | 4,700  |
| 1                 | 4                        | 10,730                     | 8,760  | 6,200  |
| 2                 | 1                        | 5,360                      | 4,380  | 3,100  |
| 2                 | 2                        | 10,730                     | 8,760  | 6,200  |
| 2                 | 3                        | 15,240                     | 12,440 | 8,800  |
| 2                 | 4                        | 19,050                     | 15,550 | 11,000 |
| 3                 | 1                        | 7,440                      | 6,080  | 4,300  |
| 3                 | 2                        | 14,370                     | 11,730 | 8,300  |
| 3                 | 3                        | 21,990                     | 17,950 | 12,700 |
| 3                 | 4                        | 28,920                     | 23,610 | 16,700 |
| 4                 | 1                        | 9,520                      | 7,770  | 5,500  |
| 4                 | 2                        | 19,050                     | 15,550 | 11,000 |
| 4                 | 3                        | 28,490                     | 23,260 | 16,450 |
| 4                 | 4                        | 35,330                     | 28,840 | 20,400 |

Safety Factor 5:1



## PRODUCT CODE

|     |                                                                    |                                      |   |               |                                 |       |                                |      |                               |                |   |        |
|-----|--------------------------------------------------------------------|--------------------------------------|---|---------------|---------------------------------|-------|--------------------------------|------|-------------------------------|----------------|---|--------|
| Ex: | D                                                                  | 3                                    | - | 1             | 9                               | 01    | P                              | 3    | B                             | 003            | - | 06     |
|     | NUMBER OF LEGS<br>D = 2 T = 3 Q = 4                                | ENDS<br>1 = STD LOOP<br>3 = EYE HOOK |   | NUMBER OF PLY | FABRIC TENSILE<br>(9800 LBS/PO) | WIDTH | MATERIAL<br>P = POLY N = NYLON | TYPE | COLOR<br>B = WHITE J = YELLOW | LENGTH<br>FEET |   | INCHES |
|     | Double legs                                                        |                                      |   |               |                                 |       |                                |      |                               |                |   |        |
|     | with eye hooks, 1 ply, 9800 lbs/po, 1", Poly, Type 3, White, 3' 6" |                                      |   |               |                                 |       |                                |      |                               |                |   |        |

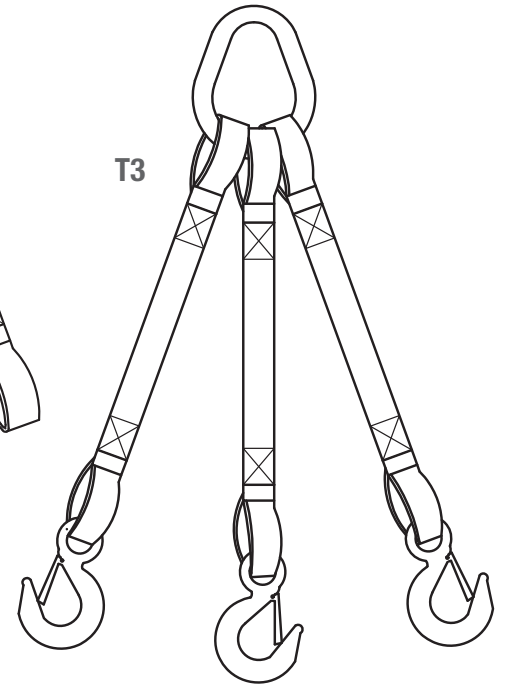
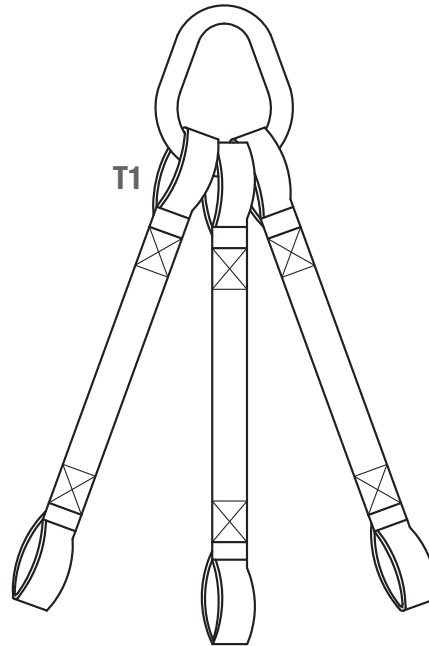


## Synthetic Web Sling, triple

| Number of plys | Material Width in. | Working Load Limit lbs. |        |        |
|----------------|--------------------|-------------------------|--------|--------|
|                |                    | 60 °                    | 45 °   | 30 °   |
| 1              | 1                  | 4,150                   | 3,390  | 2,400  |
| 1              | 2                  | 8,050                   | 6,570  | 4,650  |
| 1              | 3                  | 12,200                  | 9,960  | 7,050  |
| 1              | 4                  | 16,100                  | 13,100 | 9,300  |
| 2              | 1                  | 8,050                   | 6,570  | 4,650  |
| 2              | 2                  | 16,100                  | 13,100 | 9,300  |
| 2              | 3                  | 22,800                  | 18,600 | 13,200 |
| 2              | 4                  | 28,500                  | 23,300 | 16,500 |
| 3              | 1                  | 11,100                  | 9,120  | 6,450  |
| 3              | 2                  | 21,500                  | 17,600 | 12,400 |
| 3              | 3                  | 32,900                  | 26,900 | 19,000 |
| 3              | 4                  | 43,300                  | 35,400 | 25,000 |
| 4              | 1                  | 14,200                  | 11,600 | 8,250  |
| 4              | 2                  | 28,500                  | 23,300 | 16,500 |
| 4              | 3                  | 42,700                  | 34,800 | 24,600 |
| 4              | 4                  | 52,900                  | 43,200 | 30,600 |

**Safety Factor 5:1**

**Note :** Never exceed work load limit.



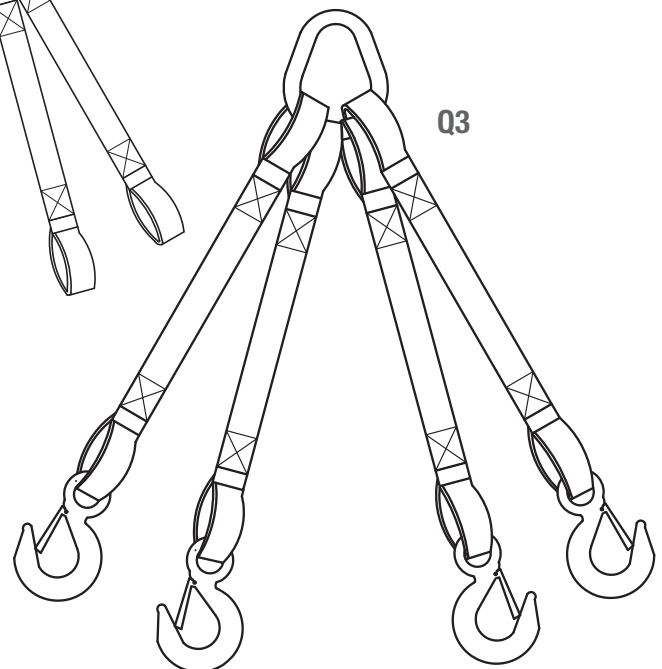
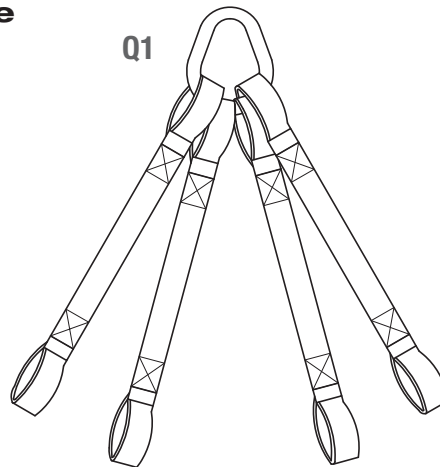
## Synthetic Web Sling, quadruple

| Number of plys | Material Width in. | Working Load Limit lbs. |        |        |
|----------------|--------------------|-------------------------|--------|--------|
|                |                    | 60 °                    | 45 °   | 30 °   |
| 1              | 1                  | 5,540                   | 4,520  | 3,200  |
| 1              | 2                  | 10,700                  | 8,760  | 6,200  |
| 1              | 3                  | 16,200                  | 13,200 | 9,400  |
| 1              | 4                  | 21,400                  | 17,500 | 12,400 |
| 2              | 1                  | 10,700                  | 8,700  | 6,200  |
| 2              | 2                  | 21,400                  | 17,500 | 12,400 |
| 2              | 3                  | 30,400                  | 24,800 | 17,600 |
| 2              | 4                  | 38,100                  | 31,100 | 22,000 |
| 3              | 1                  | 14,800                  | 12,100 | 8,600  |
| 3              | 2                  | 28,700                  | 23,400 | 16,600 |
| 3              | 3                  | 43,900                  | 35,900 | 25,400 |
| 3              | 4                  | 57,800                  | 47,200 | 33,400 |
| 4              | 1                  | 19,000                  | 15,500 | 11,000 |
| 4              | 2                  | 38,100                  | 31,100 | 22,000 |
| 4              | 3                  | 56,900                  | 46,500 | 32,900 |
| 4              | 4                  | 70,600                  | 57,600 | 40,800 |

**Safety Factor 5:1**

**Note :** Never exceed work load limit.

Material available : Polyester, Nylon  
Class 7 : 9,800 lbs/in. = Fabric Tensile







# Chain

## Merchandising at it's best !

Displays come with removable third tray that can be used to promote reels of chain & cable (A).

It can also be removed to allow an additional row of chain in pails (B) or be replaced with optional accessories bins to display 22 separate items (C). Also available in a 2' version.

- Most versatile displays ever
- Maximum number of SKU's
  - Unbelievable flexibility

*Call your representative for assistance in configuring your own inhouse display.*



**A**



**B**



**C**

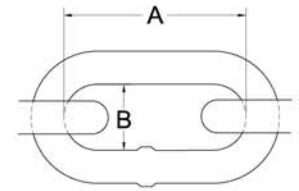




## Grade 30 Proof Coil Chain - low carbon steel

A general utility chain for farm, industry and home applications.

| Specifications    |                          |     |                            |                         |
|-------------------|--------------------------|-----|----------------------------|-------------------------|
| Diameter<br>in.   | Inside Dimensions<br>in. |     | Working Load Limit<br>lbs. | Weight / 100 ft.<br>lbs |
|                   | A                        | B   |                            |                         |
| 1/8               | 0.69                     | .25 | 325                        | 20                      |
| 3/16              | 0.97                     | .33 | 630                        | 29                      |
| 1/4               | 1.14                     | .43 | 1,100                      | 52                      |
| 5/16              | 1.24                     | .50 | 1,900                      | 85                      |
| 3/8               | 1.35                     | .57 | 2,650                      | 124                     |
| 1/2               | 1.70                     | .75 | 4,500                      | 234                     |
| 5/8               | 2.20                     | .79 | 6,900                      | 390                     |
| 3/4               | 2.76                     | .98 | 10,600                     | 537                     |
| Safety Factor 4:1 |                          |     |                            |                         |



Test certificate available – Do not use for overhead lifting

| Self Colored |                 |             |
|--------------|-----------------|-------------|
| Drum         |                 |             |
| Code         | Diameter<br>in. | Pack<br>ft. |
| 53000        | 1/8             | 1250        |
| 53001        | 3/16            | 800         |
| 53002        | 1/4             | 450         |
| 53003        | 5/16            | 275         |
| 53004        | 3/8             | 200         |
| 53005        | 1/2             | 100         |
| Pail         |                 |             |
| 52000        | 1/8             | 250         |
| 52001        | 3/16            | 150         |
| 52002        | 1/4             | 100         |
| 52003        | 5/16            | 75          |
| 52004        | 3/8             | 45          |
| 52005        | 1/2             | 25          |
| 52006        | 5/16            | 90          |
| Zinc Plated  |                 |             |
| Drum         |                 |             |
| Code         | Diameter<br>in. | Pack<br>ft. |
| 53010        | 1/8             | 1250        |
| 53011        | 3/16            | 800         |
| 53012        | 1/4             | 450         |
| 53013        | 5/16            | 275         |
| 53014        | 3/8             | 200         |
| 53015        | 1/2             | 100         |
| Pail         |                 |             |
| 52009        | 1/8             | 250         |
| 52010        | 3/16            | 150         |
| 52011        | 1/4             | 100         |
| 52012        | 5/16            | 75          |
| 52013        | 3/8             | 45          |
| 52014        | 1/2             | 25          |
| Reel         |                 |             |
| 51000        | 3/16            | 100         |
| 51001        | 1/4             | 65          |
| 51002        | 5/16            | 60          |
| 51003        | 3/8             | 35          |
| 51009        | 1/8             | 150         |



Self Colored



Zinc Plated



Hot Dipped Galvanized

For grade 70 see page 93  
For grade 80 see page 60

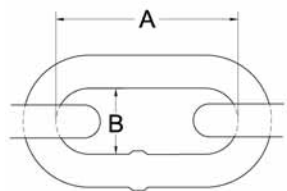


| Hot Dipped Galvanized |                 |             |
|-----------------------|-----------------|-------------|
| Metal Drum            |                 |             |
| 53027                 | 5/8             | 150         |
| 53028                 | 3/4             | 100         |
| Drum                  |                 |             |
| Code                  | Diameter<br>in. | Pack<br>ft. |
| 53020                 | 1/8             | 1250        |
| 53021                 | 3/16            | 800         |
| 53022                 | 1/4             | 450         |
| 53023                 | 5/16            | 275         |
| 53024                 | 3/8             | 200         |
| 53025                 | 1/2             | 100         |
| Pail                  |                 |             |
| 52020                 | 1/8             | 250         |
| 52021                 | 3/16            | 150         |
| 52022                 | 1/4             | 100         |
| 52023                 | 5/16            | 75          |
| 52024                 | 3/8             | 45          |
| 52025                 | 1/2             | 25          |



## Grade 40 High Tensile Chain - carbon steel

Grade 40 high tensile chain has a higher resistance to wear than Grade 30. It is a perfect product for farming, heavy duty trucking and similar tasks.



| Specifications |                       |     |                         |                      |
|----------------|-----------------------|-----|-------------------------|----------------------|
| Diameter in.   | Inside Dimensions in. |     | Working Load Limit lbs. | Weight / 100 ft. lbs |
|                | A                     | B   |                         |                      |
| 1/4            | 0.90                  | .44 | 2,600                   | 71                   |
| 5/16           | 1.12                  | .48 | 3,900                   | 102                  |
| 3/8            | 1.35                  | .57 | 5,400                   | 140                  |
| 1/2            | 1.70                  | .75 | 9,200                   | 234                  |

**Safety Factor 3:1**

Test certificate available – Do not use for overhead lifting



### Self colored

*Drum*

| Code  | Diameter in. | Pack pi. / ft. |
|-------|--------------|----------------|
| 53030 | 1/4          | 400            |
| 53031 | 5/16         | 275            |
| 53032 | 3/8          | 200            |
| 53033 | 1/2          | 100            |

### Zinc Plated

*Special Pail*

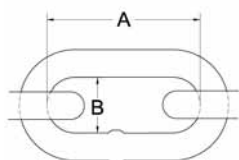
| Code  | Diameter in. | Pack pi. / ft. |
|-------|--------------|----------------|
| 18222 | 1/4          | 130            |
| 18322 | 5/16         | 90             |
| 18423 | 3/8          | 40             |
| 18421 | 3/8          | 64             |

### Hot Dipped Galvanized

*Drum*

| Code  | Diameter in. | Pack ft. |
|-------|--------------|----------|
| 53034 | 1/4          | 450      |
| 53035 | 5/16         | 275      |
| 53036 | 3/8          | 200      |
| 53037 | 3/8          | 400      |
| 53038 | 1/2          | 200      |

## Stainless Steel Chain 316 L



| Code    | Diameter |      | Working Load Limit lbs. | Inside Dimensions in. |      | Weight per 100 ft lbs. |
|---------|----------|------|-------------------------|-----------------------|------|------------------------|
|         | mm       | in.  |                         | A                     | B    |                        |
| CHS-564 | 2        | 5/64 | 70                      | 0.48                  | 0.14 | 5                      |
| CHS-018 | 4        | 1/8  | 400                     | 0.91                  | 0.27 | 20                     |
| CHS-316 | 5,5      | 3/16 | 800                     | 0.96                  | 0.40 | 40                     |
| CHS-014 | 7        | 1/4  | 1,300                   | 1.18                  | 0.43 | 66                     |
| CHS-516 | 8        | 5/16 | 1,700                   | 1.26                  | 0.50 | 86                     |
| CHS-038 | 10       | 3/8  | 2,650                   | 1.31                  | 0.60 | 142                    |
| CHS-012 | 13       | 1/2  | 4,500                   | 1.79                  | 0.72 | 242                    |

**Safety Factor 4:1**



## Harrow Chain



| Self colored |                |               |              |                         |          |                       |              |
|--------------|----------------|---------------|--------------|-------------------------|----------|-----------------------|--------------|
| Code         | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack     |
|              | Dia.           | Inside Length | Inside Width |                         |          |                       |              |
| 56008        | 5/16           | 2.12          | 0.90         | 1,900                   | 100      | 85                    | Special Pail |

| Zinc Plated |                |               |              |                         |          |                       |          |
|-------------|----------------|---------------|--------------|-------------------------|----------|-----------------------|----------|
| Code        | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack |
|             | Dia.           | Inside Length | Inside Width |                         |          |                       |          |
| 56208       | 5/16           | 2.12          | 0.90         | 1,900                   | 100      | 85                    | Pail     |
| 56308       | 5/16           | 2.12          | 0.90         | 1,900                   | 300      | 85                    | Drum     |

## Handy Link Chain



| Code  | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack |
|-------|----------------|---------------|--------------|-------------------------|----------|-----------------------|----------|
|       | Dia.           | Inside Length | Inside Width |                         |          |                       |          |
| 51150 | .12            | 1.35          | .34          | 255                     | 175      | 12.5                  | Reel     |
| 52150 | .12            | 1.35          | .34          | 255                     | 500      | 12.5                  | Pail     |
| 52151 | .12            | 1.35          | .34          | 255                     | 450      | 12.5                  | Pail     |

## Coil Chain - low carbon steel

Coil chains have longer links than machine chain. This product is perfect for animal tie chains, platform barriers and other similar tasks.



| Straight Link |              |                |               |              |                         |          |                       |          |
|---------------|--------------|----------------|---------------|--------------|-------------------------|----------|-----------------------|----------|
| Code          | Trade Size # | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack |
|               |              | Dia.           | Inside Length | Inside Width |                         |          |                       |          |
| 51017         | 2/0 (Zinc)   | .190           | 1.29          | .32          | 520                     | 200      | 27                    | Pail     |
| 51015         | # 4 (Zinc)   | .120           | 1.11          | .21          | 205                     | 100      | 10                    | Reel     |
| 51016         | 2/0 (Zinc)   | .190           | 1.29          | .32          | 520                     | 125      | 27                    | Reel     |
| 51018         | # 2 (Zinc)   | .148           | 1.18          | .26          | 310                     | 125      | 18                    | Reel     |



| Twist Link |              |                |               |              |                         |          |                       |          |
|------------|--------------|----------------|---------------|--------------|-------------------------|----------|-----------------------|----------|
| Code       | Trade Size # | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack |
|            |              | Dia.           | Inside Length | Inside Width |                         |          |                       |          |
| 51025      | # 3 (Bronze) | .140           | 1.14          | .21          | 240                     | 50       | 13                    | Reel     |

## Endweld Utility Chain - steel

A standard chain for all purpose usage except lifting.



| Zinc Plated |              |                |               |              |                         |          |                       |          |
|-------------|--------------|----------------|---------------|--------------|-------------------------|----------|-----------------------|----------|
| Code        | Trade Size # | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack |
|             |              | Dia.           | Inside Length | Inside Width |                         |          |                       |          |
| 51030       | # 14         | .080           | 0.50          | 0.19         | 75                      | 250      | 5                     | Reel     |





## Machine Chain - low carbon steel

Machine chain is a short link chain used mainly where flexibility in a compact chain is required.



| Straight Link |              |                |               |              |                         |          |                      |          |
|---------------|--------------|----------------|---------------|--------------|-------------------------|----------|----------------------|----------|
| Code          | Trade Size # | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs | Std Pack |
|               |              | Dia.           | Inside Length | Inside Width |                         |          |                      |          |
| 51011         | # 2 (Zinc)   | .150           | .61           | .26          | 325                     | 125      | 19                   | Reel     |
| 56007         | # 2 (Galv.)  | .150           | .61           | .26          | 325                     | 100      | 19                   | Reel     |
| 51012         | # 3 (Brass)  | .140           | .59           | .24          | 270                     | 80       | 15                   | Reel     |
| 51010         | # 4 (Zinc)   | .120           | .55           | .21          | 215                     | 100      | 11                   | Reel     |



| Twist Link |                |                |               |              |                         |          |                      |          |
|------------|----------------|----------------|---------------|--------------|-------------------------|----------|----------------------|----------|
| Code       | Trade Size #   | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs | Std Pack |
|            |                | Dia.           | Inside Length | Inside Width |                         |          |                      |          |
| 51020      | # 2 (Zinc)     | .150           | .58           | .22          | 310                     | 125      | 20                   | Reel     |
| 51021      | # 4 (Zinc)     | .120           | .52           | .17          | 200                     | 100      | 13                   | Reel     |
| 51022      | 2/0 (Zinc)     | .190           | .73           | .28          | 520                     | 75       | 34                   | Reel     |
| 51063      | 2/0 (Zinc)     | .190           | .73           | .28          | 520                     | 150      | 34                   | Pail     |
| 53070      | 1/0 (Zinc)     | .165           | .732          | .2           | 440                     | 2000     | 28                   | Drum     |
| 51023      | # 250 (Nickel) | .095           | .42           | .2           | 45                      | 100      | 9                    | Reel     |

## Passing Link Chain - low steel carbon

A general utility chain that resist kinking due to the link design.



| Zinc  |              |                |               |              |                         |          |                      |          |
|-------|--------------|----------------|---------------|--------------|-------------------------|----------|----------------------|----------|
| Code  | Trade Size # | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs | Std Pack |
|       |              | Dia.           | Inside Length | Inside Width |                         |          |                      |          |
| 51035 | 2/0          | .190           | .88           | .47          | 450                     | 120      | 32                   | Reel     |
| 52037 | 2/0          | .190           | .88           | .47          | 450                     | 225      | 32                   | Pail     |



## Single Jack Chain - steel

Ideal chain for hanging lighting fixtures, flower pots and other domestic type light objects.



| Code  | Trade Size #          | Dimensions in. |               | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack |
|-------|-----------------------|----------------|---------------|-------------------------|----------|-----------------------|----------|
|       |                       | Dia.           | Inside Length |                         |          |                       |          |
| 51141 | # 10 (Brass)          | .135           | .93           | 43                      | 100      | 14                    | Reel     |
| 51040 | # 10 (Zinc)           | .135           | .93           | 43                      | 150      | 12                    | Reel     |
| 52049 | # 10 (Zinc)           | .135           | .93           | 43                      | 200      | 12                    | Pail     |
| 52050 | # 10 (Zinc)           | .135           | .93           | 43                      | 250      | 12                    | Pail     |
| 51041 | # 12 (Zinc)           | .105           | .77           | 29                      | 100      | 9                     | Reel     |
| 51044 | # 12 (Brass)          | .105           | .77           | 29                      | 100      | 9                     | Reel     |
| 51140 | # 14 (Polycoat black) | .080           | .66           | 16                      | 190      | 5                     | Reel     |
| 51047 | # 14 (Black)          | .080           | .66           | 16                      | 200      | 5                     | Reel     |
| 51042 | # 14 (Zinc)           | .080           | .66           | 16                      | 200      | 5                     | Reel     |
| 51045 | # 14 (Brass)          | .080           | .66           | 16                      | 200      | 5                     | Reel     |
| 51043 | # 16 (Zinc)           | .062           | .52           | 11                      | 250      | 2.75                  | Reel     |
| 51046 | # 16 (Brass)          | .062           | .52           | 11                      | 250      | 2.75                  | Reel     |
| 51038 | # 18 (Zinc)           | .047           | .39           | 5                       | 200      | 1.7                   | Reel     |



## Double Jack Chain - steel

Chain similar to the single jack chain with a sturdier construction.



| Code  | Trade Size #     | Dimensions in. |               | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack. |
|-------|------------------|----------------|---------------|-------------------------|----------|-----------------------|-----------|
|       |                  | Dia.           | Inside Length |                         |          |                       |           |
| 51075 | # 16 (Brass Pl.) | .058           | .22           | 11                      | 200      | 6                     | Reel      |
| 51076 | # 16 (Zinc Pl.)  | .058           | .22           | 11                      | 200      | 6                     | Reel      |

## Plastic Chain



| Code  | Trade Size #        | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std. Pack |
|-------|---------------------|----------------|---------------|--------------|-------------------------|----------|-----------------------|-----------|
|       |                     | Dia.           | Inside Length | Inside Width |                         |          |                       |           |
| 54000 | # 6 (1-1/2") White  | .230           | 1.00          | .30          | 50                      | 130      | 5                     | Pail      |
| 54001 | # 6 (1-1/2") Black  | .230           | 1.00          | .30          | 50                      | 130      | 5                     | Pail      |
| 54006 | # 6 (1-1/2") Yellow | .230           | 1.00          | .30          | 50                      | 130      | 5                     | Pail      |
| 54002 | # 8 (2") White      | .290           | 1.50          | .40          | 75                      | 70       | 7                     | Pail      |
| 54003 | # 8 (2") Black      | .290           | 1.50          | .40          | 75                      | 70       | 7                     | Pail      |
| 54004 | # 8 (2") White      | .290           | 1.50          | .40          | 75                      | 60       | 7                     | Reel      |
| 54005 | # 8 (2") Black      | .290           | 1.50          | .40          | 75                      | 60       | 7                     | Reel      |
| 54007 | # 8 (2") Yellow     | .290           | 1.50          | .40          | 75                      | 70       | 7                     | Pail      |
| 54008 | # 8 (2") Orange     | .290           | 1.50          | .40          | 75                      | 70       | 7                     | Pail      |

Plastic "S" hooks and plastic connecting links available on request



## Double Loop Chain - steel



An economical utility chain used for swings, dog tie-outs, cow ties, etc...  
(also called Tenso and Lion)

| Code  | Trade Size #            | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft.      | Weight / 100 ft. lbs. | Std Pack.    |
|-------|-------------------------|----------------|---------------|--------------|-------------------------|---------------|-----------------------|--------------|
|       |                         | Dia.           | Inside Length | Inside Width |                         |               |                       |              |
| 51145 | # 1 (Zinc)              | .105           | 1.54          | .281         | 155                     | 125           | 8                     | Reel         |
| 51052 | # 1 (Zinc)              | .105           | 1.54          | .281         | 155                     | 250           | 8                     | Reel         |
| 51064 | # 1 (Zinc)              | .105           | 1.54          | .281         | 155                     | 450           | 8                     | Pail         |
| 51057 | # 2 (Zinc)              | .091           | 1.33          | .16          | 115                     | 200           | 12                    | Reel         |
| 51058 | # 2 (Zinc)              | .091           | 1.33          | .16          | 115                     | 800 (8 x 100) | 12                    | Box          |
| 51053 | # 3 (Zinc)              | .080           | 1.10          | .187         | 90                      | 200           | 6                     | Reel         |
| 51059 | # 3 (Zinc)              | .080           | 1.10          | .187         | 90                      | 700           | 6                     | Special Pail |
| 52061 | # 3 (Zinc)              | .080           | 1.10          | .187         | 90                      | 700           | 6                     | Pail         |
| 52060 | # 3 (Zinc)              | .080           | 1.82          | .187         | 90                      | 750           | 6                     | Special Pail |
| 51156 | # 3 (Polycoat white)    | .080           | 1.10          | .187         | 90                      | 200           | 6                     | Pail         |
| 51054 | # 4 (Zinc)              | .072           | 1.02          | .171         | 70                      | 250           | 5                     | Reel         |
| 51051 | # 1/0 (Zinc)            | .120           | 1.78          | .312         | 200                     | 200           | 13                    | Reel         |
| 51146 | # 1/0 (Polycoat white)  | .120           | 1.78          | .312         | 200                     | 100           | 13                    | Reel         |
| 51050 | # 2/0 (Zinc)            | .135           | 1.82          | .340         | 255                     | 75            | 17                    | Reel         |
| 51155 | # 2/0 (Polycoat yellow) | .135           | 1.82          | .340         | 255                     | 200           | 17                    | Pail         |
| 52059 | # 2/0 (Polycoat white)  | .135           | 1.82          | .340         | 255                     | 200           | 17                    | Pail         |
| 52146 | # 2/0 (Zinc)            | .135           | 1.82          | .340         | 255                     | 275           | 17                    | Pail         |
| 51062 | # 3/0 (Zinc)            | .148           | 2.17          | .415         | 305                     | 150           | 20                    | Pail         |



## Vinyl covered

| Code  | Trade Size #  | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack. |
|-------|---------------|----------------|---------------|--------------|-------------------------|----------|-----------------------|-----------|
|       |               | Dia.           | Inside Length | Inside Width |                         |          |                       |           |
| 51055 | # 1/0 (Green) | .120           | 1.78          | .312         | 200                     | 100      | 17                    | Reel      |
| 51056 | # 2 (Blue)    | 0.091          | 1.33          | 0.167        | 115                     | 125      | 11                    | Reel      |

## Lock Link Chain - steel



The strongest weldless chain. Provides a flat suspension surface.

### Zinc

| Code  | Trade Size # | Dimensions in. |               | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack |
|-------|--------------|----------------|---------------|-------------------------|----------|-----------------------|----------|
|       |              | Dia.           | Inside Length |                         |          |                       |          |
| 51077 | 2/0          | .140           | 1.48          | 340                     | 50       | 23                    | Reel     |

## Furnace Chain - steel



Light duty chain.

### Zinc

| Code  | Trade Size # | Thickness in. | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack |
|-------|--------------|---------------|-------------------------|----------|-----------------------|----------|
| 51070 | # 91         | .023          | 41                      | 250      | 2.5                   | Reel     |



## Decorative Oval Chain (Swag)



| Code  | Trade Size #           | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack     |
|-------|------------------------|----------------|---------------|--------------|-------------------------|----------|-----------------------|--------------|
|       |                        | Dia.           | Inside Length | Inside Width |                         |          |                       |              |
| 51080 | # 10 Brass Plated      | .109           | 1.25          | .625         | 45                      | 50       | 7                     | Reel         |
| 51081 | # 10 Black             | .109           | 1.25          | .625         | 45                      | 50       | 7                     | Reel         |
| 51082 | # 10 Antique Silver    | .109           | 1.25          | .625         | 45                      | 50       | 7                     | Reel         |
| 51083 | # 10 White             | .109           | 1.25          | .625         | 45                      | 50       | 7                     | Reel         |
| 51084 | # 10 Aged Bronze       | .109           | 1.25          | .625         | 45                      | 50       | 7                     | Reel         |
| 51085 | # 10 Antique Copper    | .109           | 1.25          | .625         | 45                      | 50       | 7                     | Reel         |
| 51086 | # 100 Bronze           | .087           | .63           | .24          | 13                      | 197      | 3                     | Reel         |
| 51087 | # 4 Black              | .12            | .58           | .21          | 70                      | 90       | 11                    | Reel         |
| 51088 | # 10 Satin Chrome      | .109           | 1.25          | .625         | 45                      | 50       | 7                     | Reel         |
| 51089 | # 10 Oil Rubbed Bronze | .109           | 1.25          | .625         | 45                      | 50       | 7                     | Reel         |
| 51105 | # 4 Zinc Plated        | .12            | .58           | .21          | 70                      | 90       | 11                    | Reel         |
| 51127 | # 100 Black            | .087           | .63           | .24          | 13                      | 197      | 3                     | Reel         |
| 23175 | # 10 Pewter            | .109           | 1.25          | .625         | 45                      | 150      | 7                     | Special Pail |
| 23170 | # 10 Pewter            | .109           | 1.25          | .625         | 45                      | 50       | 7                     | Reel         |

## Dimpled Oval Chain - steel



| Code  | Trade Size #      | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack |
|-------|-------------------|----------------|---------------|--------------|-------------------------|----------|-----------------------|----------|
|       |                   | Dia.           | Inside Length | Inside Width |                         |          |                       |          |
| 51100 | # 50 Brass Plated | .118           | 1.10          | .552         | 20                      | 66       | 8                     | Reel     |
| 51101 | # 50 Antic Brass  | .118           | 1.10          | .552         | 20                      | 66       | 8                     | Reel     |
| 51102 | # 50 White        | .118           | 1.10          | .552         | 20                      | 66       | 8                     | Reel     |
| 51103 | # 50 Black        | .118           | 1.10          | .552         | 20                      | 66       | 8                     | Reel     |

## Cathedral Chain - steel



| Code  | Trade Size #      | Dimensions in. |               |              | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack |
|-------|-------------------|----------------|---------------|--------------|-------------------------|----------|-----------------------|----------|
|       |                   | Dia.           | Inside Length | Inside Width |                         |          |                       |          |
| 51090 | # 31 Brass Plated | .087           | .985          | .552         | 35                      | 98       | 6                     | Reel     |
| 51091 | # 31 White        | .087           | .985          | .552         | 35                      | 98       | 6                     | Reel     |
| 51092 | # 31 Black        | .087           | .985          | .552         | 35                      | 98       | 6                     | Reel     |
| 51093 | # 32 Brass Plated | .110           | 1.576         | .746         | 44                      | 66       | 9                     | Reel     |
| 51094 | # 32 Antic Brass  | .110           | 1.576         | .746         | 44                      | 66       | 9                     | Reel     |
| 51095 | # 32 white        | .110           | 1.576         | .746         | 44                      | 66       | 9                     | Reel     |
| 51096 | # 32 Black        | .110           | 1.576         | .746         | 44                      | 66       | 9                     | Reel     |

## Sash Chain - steel



| Zinc  |              |               |                         |          |                       |          |
|-------|--------------|---------------|-------------------------|----------|-----------------------|----------|
| Code  | Trade Size # | Thickness in. | Working Load Limit lbs. | Eack ft. | Weight / 100 ft. lbs. | Std Pack |
| 51060 | # 8          | .029          | 75                      | 200      | 4                     | Reel     |
| 51061 | # 35         | .035          | 106                     | 100      | 6                     | Reel     |

This chain is designed to operate smoothly over pulleys, it is ideal for many applications such as hanging and suspending double hung sashes.

## Safety Chain - brass

This flat link chain is commonly used for plumbing fixtures.



| Brass |              |               |                         |          |                       |          |
|-------|--------------|---------------|-------------------------|----------|-----------------------|----------|
| Code  | Trade Size # | Thickness in. | Working Load Limit lbs. | Pack ft. | Weight / 100 ft. lbs. | Std Pack |
| 51065 | 1/0          | .023          | 35                      | 200      | 2                     | Reel     |





## Electrical Fixture Chain



51039



51049

| Code  | Trade Size #      | Dimensions in. |               |              | Working Load Limit lbs. | Length                | Weight / box lbs. |
|-------|-------------------|----------------|---------------|--------------|-------------------------|-----------------------|-------------------|
|       |                   | Dia.           | Inside Length | Inside Width |                         |                       |                   |
| 52412 | # 2 Double loop   | .091           | 1.33          | .160         | 115                     | 600' total (6 x 100') | 72                |
| 52427 | # 2 Double loop   | .091           | 1.33          | .160         | 115                     | 800' total (8 x 100') | 96                |
| 52428 | # 2 Double loop   | .091           | 1.33          | .160         | 115                     | Pail 250'             | 30                |
| 52429 | # 2 Double loop   | .091           | 1.33          | .160         | 115                     | Pail 500'             | 60                |
| 52512 | # 3 Double loop   | .080           | 1.10          | .187         | 90                      | 600' total (6 x 100') | 36                |
| 52517 | # 3 Double loop   | .080           | 1.10          | .187         | 90                      | 800' total (8 x 100') | 48                |
| 52546 | # 3 Double loop   | .080           | 1.10          | .187         | 90                      | Pail 250'             | 15                |
| 52548 | # 3 Double loop   | .080           | 1.10          | .187         | 90                      | Pail 500'             | 30                |
| 51054 | # 4 Double loop   | .072           | 1.02          | .171         | 70                      | Reel 250'             | 12.5              |
| 52615 | # 4 Double loop   | .072           | 1.02          | .171         | 70                      | Pail 300'             | 15                |
| 51049 | # 4 Double loop   | .072           | 1.02          | .171         | 70                      | 800' total (8 x 100') | 40                |
| 51039 | # 10T Single Jack | .125           | 1.26          | —            | 43                      | 500' total (10 x 50') | 60                |
| 52606 | # 10T Single Jack | .125           | 1.26          | —            | 43                      | 300' total (6 x 50')  | 36                |
| 52112 | # 10T Single Jack | .125           | 1.26          | —            | 43                      | Pail 200'             | 24                |
| 52113 | # 10T Single Jack | .125           | 1.26          | —            | 43                      | Reel 250'             | 30                |
| 52118 | # 10T Single Jack | .125           | 1.26          | —            | 43                      | Pail 500'             | 60                |
| 52121 | # 12 Single Jack  | .105           | 0.77          | —            | 29                      | Pail 300'             | 27                |
| 51029 | # 12 Single Jack  | .105           | 0.77          | —            | 29                      | 500' total (10 x 50') | 45                |
| 52136 | # 12 Single Jack  | .105           | 0.77          | —            | 29                      | 300' total (6 x 50')  | 27                |

## Hook For Fixture Chain



| Code  | Type          | Size or Diameter in. | Inside Length in. | Pack      | Master Pack | Weight / box lbs. |
|-------|---------------|----------------------|-------------------|-----------|-------------|-------------------|
| 72021 | Fixture Hooks | # W71                | -                 | 100 / bag | 5 bags      | -                 |
| 70929 | "S" Hooks     | 1/8                  | 1.25              | 100 / bag | 10 bags     | 14                |
| 72522 | Screw Hooks   | # M10                | -                 | 100 / bag | 5 bags      | -                 |
| 72525 | Screw Hooks   | # M10                | -                 | 100 / bag | 10 bags     | -                 |
| 72552 | Screw Hooks   | # M12                | -                 | 100 / bag | 5 bags      | -                 |

## Hand Chain



| Code  | Chain size in. | Dia. in. | Length in. | Width in. | Finish | Length ft. | Weight / 100 ft. lbs. |
|-------|----------------|----------|------------|-----------|--------|------------|-----------------------|
| 12310 | 3/16           | .188     | .80        | .37       | Zinc   | 1000       | 30                    |



## Bead Chain

| Code  | Trade Size #            | Dia. & Ins. Dim.<br>in. | Working Load<br>Limit<br>lbs. | Pack<br>ft. | Weight<br>per 100 ft.<br>lbs. | Std<br>Pack. |
|-------|-------------------------|-------------------------|-------------------------------|-------------|-------------------------------|--------------|
| 51130 | #6 Steel Nickel Plated  | .125 dia.               | 6                             | 100         | 2                             | Reel         |
| 51131 | #10 Steel Nickel Plated | .178 dia.               | 12                            | 100         | 3                             | Reel         |
| 51132 | #6 Brass Bright         | .125 dia.               | 6                             | 100         | 2                             | Reel         |
| 51133 | #10 Brass Bright        | .178 dia.               | 12                            | 100         | 3                             | Reel         |
| 51134 | #6 Brass Nickel Plated  | .125 dia.               | 6                             | 100         | 2                             | Reel         |
| 51135 | #10 Brass Nickel Plated | .178 dia.               | 12                            | 100         | 3                             | Reel         |



## Bead Chain Connectors - steel

| Code  | Trade Size #<br>Finish | Qty / Pack    | Std<br>Pack |
|-------|------------------------|---------------|-------------|
| 55000 | #6 Brass Bright        | 100 pcs / bag | Bag         |
| 55001 | #10 Brass Bright       | 100 pcs / bag | Bag         |
| 55002 | #6 Nickel              | 100 pcs / bag | Bag         |
| 55003 | #10 Nickel             | 100 pcs / bag | Bag         |
| 55030 | #6 Brass               | 8 pcs / card  | Card        |
| 55031 | #10 Nickel             | 8 pcs / card  | Card        |
| 55004 | #6 Nickel              | 6 pcs / card  | Card        |
| 55032 | #10 Brass Bright       | 8 pcs / card  | Card        |



## Hobby / Craft Chain - steel

| Code  | Trade Size #                 | Dimensions<br>in. |                  |                 | Working Load<br>Limit<br>lbs. | Pack<br>ft. | Weight<br>per 100 ft.<br>lbs. | Std<br>Pack |
|-------|------------------------------|-------------------|------------------|-----------------|-------------------------------|-------------|-------------------------------|-------------|
|       |                              | Dia.              | Inside<br>Length | Inside<br>Width |                               |             |                               |             |
| 51110 | #3 Clock Brass Plated        | .043              | .300             | .092            | 7                             | 164         | .9                            | Reel        |
| 51111 | #5 Clock Brass Plated        | .051              | .315             | .105            | 13                            | 82          | 1.3                           | Reel        |
| 51112 | #5 Clock Nickel Plated       | .051              | .315             | .105            | 13                            | 82          | 1.3                           | Reel        |
| 51113 | #7 Clock Brass Plated        | .063              | .315             | .130            | 18                            | 82          | 1.6                           | Reel        |
| 51114 | #7 Clock Nickel Plated       | .063              | .315             | .130            | 18                            | 82          | 1.6                           | Reel        |
| 51115 | #2 Sash Chrome Plated        | .043 ga           | —                | .532            | 29                            | 164         | .7                            | Reel        |
| 51116 | #2 Sash Brass Plated         | .043 ga           | —                | .532            | 29                            | 164         | .7                            | Reel        |
| 51117 | #3 Sash Chrome Plated        | .059 ga           | —                | .519            | 35                            | 82          | 2.0                           | Reel        |
| 51118 | #70 Twist Brass Plated       | .047              | .154             | .030            | 15                            | 82          | 2.6                           | Reel        |
| 51119 | #90 Twist Brass Plated       | .059              | .260             | .122            | 20                            | 82          | 3.5                           | Reel        |
| 51120 | #90 Twist Nickel Plated      | .059              | .260             | .122            | 20                            | 82          | 3.5                           | Reel        |
| 51121 | #200 Twist Brass Plated      | .079              | .360             | .122            | 29                            | 49          | 4.7                           | Reel        |
| 51122 | #200 Twist Nickel Plated     | .079              | .360             | .122            | 29                            | 49          | 4.7                           | Reel        |
| 51123 | #250 Twist Brass Plated      | .099              | .284             | .170            | 35                            | 33          | 8.5                           | Reel        |
| 51124 | #250 Twist Nickel            | .099              | .284             | .170            | 35                            | 33          | 8.5                           | Reel        |
| 51125 | #19 Oval Link Brass Plated   | .043              | .205             | .110            | 7                             | 82          | 2.1                           | Reel        |
| 51126 | #36 Ball Chain Chrome Plated | .142 dia.         | —                | —               | 11                            | 164         | 1.6                           | Reel        |



Clock



Sash



Twist



Oval



Ball



## Mooring Chain - steel (Long Link)

The hot dip galvanized coating has 30% more zinc per unit volume than mechanical coating. The long link design permits the hook-up of shackles anywhere on the chain, not just on end links as with most chains.



| Trade Size in. | Wire Diameter in. | Inside dimensions |       | Number of links / ft. | Working Load Limit lbs. | Weight / 100 ft. lbs. |
|----------------|-------------------|-------------------|-------|-----------------------|-------------------------|-----------------------|
|                |                   | Length            | Width |                       |                         |                       |
| 3/8            | 0.394             | 1.63              | 0.65  | 7.4                   | 4,050                   | 138                   |
| 1/2            | 0.519             | 2.00              | 0.87  | 6.0                   | 6,900                   | 245                   |
| 5/8            | 0.656             | 2.53              | 0.92  | 4.8                   | 9,750                   | 377                   |
| 3/4            | 0.781             | 2.99              | 1.04  | 4.0                   | 15,000                  | 526                   |

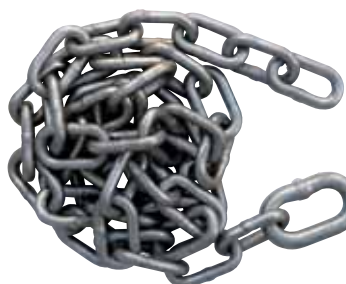


### Use a shackle for Maximum Flexibility

Use a shackle to add on to an existing span of chain - or connect it in the middle of a span for maximum versatility

Shackle pin can fit through any link, shackle body can fit through end link.

## Galvanized Anchor Lead Chain



Pre-cut leads have a large end link welded on one end for easy hook up to the anchor line.

| Code  | Anchor Lead |        | Recommended Boat Size | Weight / ea. lbs. |
|-------|-------------|--------|-----------------------|-------------------|
|       | Tr. Size    | Length |                       |                   |
| 65000 | 3/16"       | 4'     | up to 18'             | 1.8               |
| 65001 | 1/4"        | 5'     | up to 28'             | 3.4               |
| 65002 | 5/16"       | 6'     | up to 40'             | 6.1               |

## Vinyl Coated Anchor Lead Chain



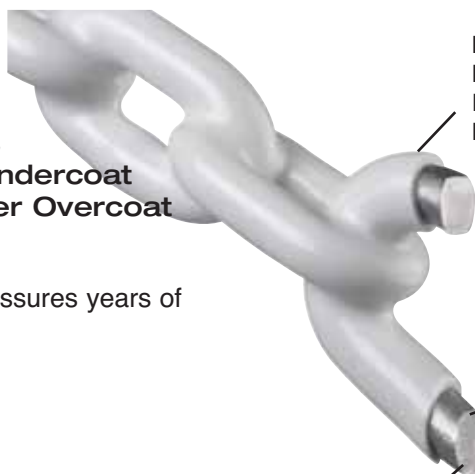
Pre-cut leads have a large end link welded on one end for easy hook up to the anchor line.

| Code  | Anchor Lead |        | Recommended Boat Size | Weight / ea. lbs. |
|-------|-------------|--------|-----------------------|-------------------|
|       | Tr. Size    | Length |                       |                   |
| 65003 | 3/16"       | 4'     | up to 18'             | 1.9               |
| 65004 | 1/4"        | 5'     | up to 28'             | 3.6               |
| 65005 | 5/16"       | 6'     | up to 40'             | 6.6               |

## Double Coated for Double Duty

- Protects Decks and Hulls
- Hot Dipped Galvanized Undercoat
- Heat Cured White Polymer Overcoat

Heavy duty protection assures years of dependable service.



### Polymer Coated

Locks out rust and corrosion.  
Resistant to Chemicals.  
Non-Marring, attractive finish.

**Heavy Duty Hot Galvanized Plating**  
Protects against rust and corrosion. Assure years of dependable service.

**Tough Welded Steel Chain**



## Windlass Chain - Grade 43 ISO

A high tensile strength carbon steel anchor (windlass) chain with an ISO short link. The short link makes it more flexible and ideally suited as a windlass chain. This extra thick hot dip galvanized finish is recommended for all marine applications. Material: Carbon steel. Finishes: Self-Colored and Hot Galvanized

| Specifications |               |       |                      |                 |                       |                         |
|----------------|---------------|-------|----------------------|-----------------|-----------------------|-------------------------|
| Size in.       | Wire Diameter |       | Inside dimensions    |                 | Weight / 100 ft. lbs. | Working Load Limit lbs. |
|                | mm            | in.   | Length in. (nominal) | Width in. (Min) |                       |                         |
| 1/4            | 7             | 0.274 | 0.845                | 0.41            | 73.26                 | 2,600                   |
| 5/16           | 8             | 0.330 | 1.030                | 0.51            | 103.00                | 3,900                   |
| 3/8            | 10            | 0.394 | 1.220                | 0.59            | 147.80                | 5,400                   |
| 7/16           | —             | 0.497 | 1.400                | 0.65            | 205.60                | 7,200                   |
| 1/2            | 13            | 0.510 | 1.590                | 0.76            | 256.80                | 9,200                   |
| 5/8            | 16            | 0.630 | 1.790                | 0.90            | 421.20                | 13,000                  |



## Windlass Grade 30 BBB Chain

A low carbon steel, general purpose chain, with a short compact link. The short link is ideally suited for anchor chain.

| Specifications |                   |                      |                     |                         |
|----------------|-------------------|----------------------|---------------------|-------------------------|
| Trade Size in. | Material size in. | Inside dimensions    |                     | Working Load Limit lbs. |
|                |                   | Length in. (nominal) | Width in. (nominal) |                         |
| 1/4            | 9/32              | 0.87                 | 0.43                | 1,300                   |
| 5/16           | 11/32             | 1.00                 | 0.50                | 1,900                   |
| 3/8            | 13/32             | 1.09                 | 0.62                | 2,650                   |
| 1/2            | 17/32             | 1.34                 | 0.75                | 4,500                   |



## Proof Coil - Grade 30 ISO (ISO is a short pitch link)

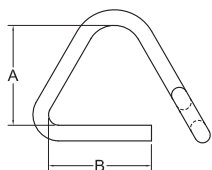
| Specifications |               |       |                      |                 |                       |                         |
|----------------|---------------|-------|----------------------|-----------------|-----------------------|-------------------------|
| Trade Size in. | Wire Diameter |       | Inside dimensions    |                 | Weight / 100 ft. lbs. | Working Load Limit lbs. |
|                | mm            | in.   | Length in. (nominal) | Width in. (min) |                       |                         |
| 1/4            | 7             | 0.279 | 1.000                | 0.507           | 73.0                  | 1,300                   |
| 5/16           | 8             | 0.342 | 1.100                | 0.507           | 109.0                 | 1,900                   |
| 3/8            | 10            | 0.404 | 1.230                | 0.620           | 155.0                 | 2,650                   |
| 1/2            | 13            | 0.512 | 1.500                | 0.820           | 250.3                 | 4,500                   |
| 5/8            | 16            | 0.628 | 1.900                | 1.000           | 362.2                 | 6,900                   |
| 3/4            | 20            | 0.779 | 2.205                | 1.090           | 580.3                 | 10,600                  |





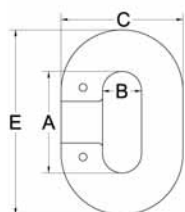


## Cold Shuts (zinc plated steel)



| Code   | Chain Size in. | Weight / ea. lbs. | Dimensions in. |       |
|--------|----------------|-------------------|----------------|-------|
|        |                |                   | A              | B     |
| MF-316 | 3/16           | 0.03              | 15/16          | 11/32 |
| MF-014 | 1/4            | 0.06              | 1              | 3/8   |
| MF-516 | 5/16           | 0.10              | 1 3/16         | 7/16  |
| MF-038 | 3/8            | 0.18              | 1 5/16         | 5/8   |
| MF-716 | 7/16           | 0.27              | 1 1/2          | 9/16  |
| MF-012 | 1/2            | 0.38              | 1 9/16         | 3/4   |

## Replacement Links (Galvanized)



| Code     | Chain Size in. | Working Load Limit lbs | Weight per 100 lbs | Dimensions in. |      |      |      |
|----------|----------------|------------------------|--------------------|----------------|------|------|------|
|          |                |                        |                    | A              | B    | C    | E    |
| G335-316 | 3/16           | 800                    | 2.50               | .69            | .34  | .78  | 1.19 |
| G335-014 | 1/4            | 1325                   | 6.25               | .88            | .44  | 1.00 | 1.50 |
| G335-516 | 5/16           | 1950                   | 12.50              | .94            | .47  | 1.16 | 1.69 |
| G335-038 | 3/8            | 2750                   | 20.00              | 1.13           | .56  | 1.38 | 2.06 |
| G335-716 | 7/16           | 3625                   | 27.50              | 1.28           | .59  | 1.53 | 2.34 |
| G335-012 | 1/2            | 4750                   | 37.50              | 1.47           | .66  | 1.72 | 2.66 |
| G335-058 | 5/8            | 7250                   | 72.50              | 1.81           | .78  | 2.09 | 3.31 |
| G335-034 | 3/4            | 10250                  | 122.50             | 2.13           | .94  | 2.50 | 3.88 |
| G335-078 | 7/8            | 12000                  | 175.00             | 2.50           | 1.13 | 2.94 | 4.50 |
| G335-001 | 1              | 15500                  | 250.00             | 2.75           | 1.25 | 3.31 | 5.00 |

Safety Factor 4:1

## Lap Links (zinc plated steel)



| Code     | Chain Size in. | Weight / ea. lbs. | Dimensions in. |
|----------|----------------|-------------------|----------------|
|          |                |                   | A              |
| LAPZ-018 | 1/8            | 0.01              | 3/4            |
| LAPZ-316 | 3/16           | 0.03              | 1              |
| LAPZ-014 | 1/4            | 0.07              | 1 1/2          |
| LAPZ-516 | 5/16           | 0.13              | 1 1/2          |
| LAPZ-038 | 3/8            | 0.26              | 2              |
| LAPZ-716 | 7/16           | 0.56              | 2 1/4          |
| LAPZ-012 | 1/2            | 0.53              | 2 1/2          |

Federal Specification : RR-C-271D

## Chain Cutters



# 88

# 44



# 25

| Code  | Product           | For diameter in. Maximum | Weight lbs. | Std Pack |
|-------|-------------------|--------------------------|-------------|----------|
| 55020 | #25               | 1/4 G30                  | 5           | 1        |
| 55021 | #44               | 3/8 G40                  | 35          | 1        |
| 55023 | #88               | 1/2 G40 - 3/8 G70        | 46          | 1        |
| 55024 | #88 kit           | 1/2 G40 - 3/8 G70        | 2           | 1        |
| 55025 | #88 Carbide teeth | 1/2 G40 - 3/8 G70        | -           | 2        |



## “Felco” Wire Rope Cutters, Switzerland

| Code  | For Cable Diameter in. | Length in. | Weight ea. lbs. |
|-------|------------------------|------------|-----------------|
| FC-7  | 0 – 3/16               | 8          | 0.625           |
| FC-9  | 0 – 1/4                | 13         | 1.500           |
| FC-12 | 0 – 3/8                | 19         | 3.000           |
| FC-16 | 0 – 5/8                | 23         | 5.000           |



FC-7



FC-16



FC-12



FC-9

## Wire Rope Cutters, Japan

| Code   | For Cable Diameter in. | Length in. | Weight ea. lbs. |
|--------|------------------------|------------|-----------------|
| RC-8   | Up to 3/16             | 8          | 0.66            |
| RC-450 | Up to 1/2              | 19         | 3.00            |
| RC-800 | Up to 5/8              | 23         | 5.00            |



RC-800



RC-8



RC-450

## Wire Rope Cutters, USA

| Code | For Cable Diameter in. | Length in. | Weight ea. lbs. |
|------|------------------------|------------|-----------------|
| C632 | Up to 3/16             | 8"         | 5.5             |



## Hammer Cable Cutters

| Code   | Description | For Cable Diameter in. |
|--------|-------------|------------------------|
| SFCC-1 | IMPACTO #1  | Up to 3/4              |



## Spare Parts

| Code     | Description      | For Cable Diameter in. |
|----------|------------------|------------------------|
| SFPIS-12 | Plunger #1       | 0 – 3/4                |
| SFTB-12  | Top blade #1 & 2 | 0 – 3/4                |
| SFBB-1   | Bottom blade #1  | 0 – 3/4                |
| SFBB-2   | Bottom blade #1  | 0 – 1 1/16             |





## Hand Swagers, 1 cavity



Length : 20"— Weight : 4.2 lbs



Length : 28"— Weight : 5 lbs



Length : 8"— Weight : 8oz

| Code  | For Oval Sleeves | For Stop Sleeves   | For Oval Sleeves<br>Stainless Steel | Made in |
|-------|------------------|--------------------|-------------------------------------|---------|
| HS-0A | 3/64             | 3/64               | 5/64 - 1/16                         | USA     |
| HS-0B | 1/16             | 1/16               | 3/32                                | USA     |
| HS-0C | 3/32             | 3/32 - 1/8         | 1/8                                 | USA     |
| HS-0D | 1/8              | 5/32 - 3/16 - 7/32 | 5/32                                | USA     |
| HS-0E | 5/32             | —                  | 3/16                                | USA     |
| HS-0F | 3/16             | —                  | 7/32                                | USA     |

| Code  | For Oval Sleeves | For Stop Sleeves  | Made in |
|-------|------------------|-------------------|---------|
| HS-1A | 7/32             | 7/32              | USA     |
| HS-1B | 1/4              | 1/4 - 9/32 - 5/16 | USA     |
| HS-1C | 9/32             | —                 | USA     |
| HS-1D | 5/16             | —                 | USA     |
| HS-1E | 3/8              | —                 | USA     |
| HS-1F | 1/4 - 5/16       | —                 | Japan   |

| Code   | For Oval Sleeves | For Stop Sleeves | Made in |
|--------|------------------|------------------|---------|
| S 132  | 1/32             | 1/32             | USA     |
| S 1532 | 3/64             | 3/64             | USA     |
| S 232  | 1/16             | 1/16             | USA     |

## Functional Swagers



Length : 14"— Weight : 2 lbs.

| Code  | For Oval Sleeves   | For Stop Sleeves         | Made in |
|-------|--------------------|--------------------------|---------|
| HS-2  | 3/64 - 1/16 - 3/32 | 3/64 - 1/16 - 3/32 - 1/8 | USA     |
| HS-2A | 1/16 - 3/32        | 1/16 - 3/32 - 1/8        | Japan   |

## Pocket Hand Swagers



Length : 9"— Weight : 12 oz.

| Code | For Oval Sleeves   | For Stop Sleeves   | Made in |
|------|--------------------|--------------------|---------|
| HS-3 | 1/32 - 3/64 - 1/16 | 1/32 - 3/64 - 1/16 | USA     |

## Multicompression Hand Swagers with Cable Cutter

Length : 28"— Weight : 6.5 lbs.



S2632H



HS5

| Code   | For Oval Sleeves                | For Stop Sleeves                       | Made in |
|--------|---------------------------------|----------------------------------------|---------|
| S2632H | 1/16 - 3/32 - 1/8 - 5/32 - 3/16 | 1/16 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 | USA     |
| HS-5   | 1/16 - 3/32 - 1/8 - 5/32 - 3/16 | 1/16 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 | Japan   |

## Bench Swagers

Length 22.5" , Height 6.25" (height with handle up 24"),  
Weight 6.6 lbs.



S2632B



BS-1

| Code   | For Oval Sleeves                | For Stop Sleeves                       | Made in |
|--------|---------------------------------|----------------------------------------|---------|
| S2632B | 1/16 - 3/32 - 1/8 - 5/32 - 3/16 | 1/16 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 | USA     |
| BS-1   | 1/16 - 3/32 - 1/8 - 5/32 - 3/16 | 1/16 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 | Japan   |





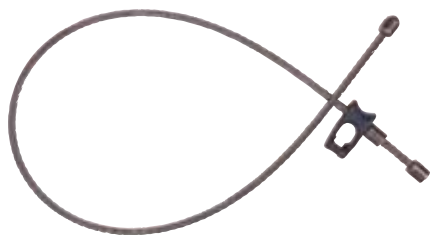
***Our Guarantee:  
An experienced team available,  
always ready to deliver your order on time!***



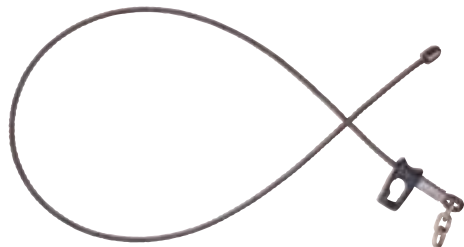


# Forestry

## Forestry chokers



Type 3 Buttons



Chain Type

| Code<br>Type 3 (buttons) | Code<br>Chain Type | Diameter x length<br>in. | Minimum<br>Breaking Strength<br>lbs. |
|--------------------------|--------------------|--------------------------|--------------------------------------|
| SFE3-716005              | SFEC-716005        | 7/16 x 5'                | 17,200                               |
| SFE3-716512              | SFEC-716512        | 7/16 x 5' 6"             | 17,200                               |
| SFE3-716006              | SFEC-716006        | 7/16 x 6'                | 17,200                               |
| SFE3-716612              | SFEC-716612        | 7/16 x 6' 6"             | 17,200                               |
| SFE3-716007              | SFEC-716007        | 7/16 x 7'                | 17,200                               |
| SFE3-716008              | SFEC-716008        | 7/16 x 8'                | 17,200                               |
| SFE3-012006              | SFEC-012006        | 1/2 x 6'                 | 23,600                               |
| SFE3-012612              | SFEC-012612        | 1/2 x 6' 6"              | 23,600                               |
| SFE3-012007              | SFEC-012007        | 1/2 x 7'                 | 23,600                               |
| SFE3-012008              | SFEC-012008        | 1/2 x 8'                 | 23,600                               |
| SFE3-012009              | SFEC-012009        | 1/2 x 9'                 | 23,600                               |
| SFE3-012010              | SFEC-012010        | 1/2 x 10'                | 23,600                               |
| SFE3-916010              | SFEC-916010        | 9/16 x 10'               | 28,600                               |
| SFE3-916011              | SFEC-916011        | 9/16 x 11'               | 28,600                               |
| SFE3-916012              | SFEC-916012        | 9/16 x 12'               | 28,600                               |
| SFE3-916013              | SFEC-916013        | 9/16 x 13'               | 28,600                               |
| SFE3-916014              | SFEC-916014        | 9/16 x 14'               | 28,600                               |
| SFE3-916015              | SFEC-916015        | 9/16 x 15'               | 28,600                               |

## Extensions (type 2 buttons)



| Code        | Diameter x length<br>in. | Minimum<br>Breaking Strength<br>lbs. |
|-------------|--------------------------|--------------------------------------|
| SFE2-716112 | 7/16 x 18"               | 17,200                               |
| SFE2-716002 | 7/16 x 24"               | 17,200                               |
| SFE2-012112 | 1/2 x 18"                | 23,600                               |
| SFE2-012002 | 1/2 x 24"                | 23,600                               |
| SFE2-916112 | 9/16 x 18"               | 28,600                               |
| SFE2-916002 | 9/16 x 24"               | 28,600                               |

## Main Lines with Swaged button



| Swaged Cable |                               |                                      |                               |
|--------------|-------------------------------|--------------------------------------|-------------------------------|
| Code         | Diameter x length<br>in. x ft | Minimum<br>Breaking Strength<br>lbs. | Weight / ft<br>approx<br>lbs. |
| SFCPB-012    | 1/2 x 100                     | 31,400                               | 0.67                          |
| SFCPB-916    | 9/16 x 100                    | 38,900                               | 0.80                          |
| SFCPB-058    | 5/8 x 100                     | 46,400                               | 0.96                          |
| SFCPB-1116   | 11/16 x 100                   | 54,400                               | 1.20                          |
| SFCPB-034    | 3/4 x 100                     | 68,800                               | 1.55                          |

| Super-Swaged Cable |                               |                                      |                               |
|--------------------|-------------------------------|--------------------------------------|-------------------------------|
| Code               | Diameter x length<br>in. x ft | Minimum<br>Breaking Strength<br>lbs. | Weight / ft<br>approx<br>lbs. |
| SFCPB-012S         | 1/2 x 100                     | 33,600                               | 0.67                          |
| SFCPB-916S         | 9/16 x 100                    | 41,000                               | 0.80                          |
| SFCPB-058S         | 5/8 x 100                     | 54,400                               | 0.96                          |
| SFCPB-1116S        | 11/16 x 100                   | 67,400                               | 1.20                          |
| SFCPB-034S         | 3/4 x 100                     | 72,200                               | 1.55                          |

Any length available upon request.

## Logging Chain



Self-colored



Packaged

| Code  | Diameter<br>in. | Grade | Finish       | Length<br>ft. | Working Load<br>Limit<br>lbs. | Weight / ea.<br>lbs |
|-------|-----------------|-------|--------------|---------------|-------------------------------|---------------------|
| 56001 | 1/4             | 30    | Self-colored | 14            | 1,100                         | 8                   |
| 56002 | 5/16            | 30    | Self-colored | 14            | 1,900                         | 12                  |
| 56003 | 3/8             | 30    | Self-colored | 14            | 2,650                         | 17                  |
| 56006 | 1/2             | 30    | Self-colored | 14            | 4,500                         | 33                  |

Safety factor : 4:1



## Sliding Hooks for chokers

| Code  | Description | For chokers diameter in. |
|-------|-------------|--------------------------|
| SFMIC | MICRO       | 7/16 – 1/2               |
| SFMID | MIDGET      | 3/8 – 9/16               |
| SFBAN | BANTAM      | 9/16 – 5/8               |



SFMID

## Rings for Main-lines

| Code     | Description           |
|----------|-----------------------|
| SFMLR-TH | TWITCH-HOOK           |
| SFMLR-E  | With reversed eye     |
| SFGS-516 | Spiral pin – 5/16 x 2 |



SFMLR-E



SFGS-516



SFMLR-TH

## Links and buttons

| Code      | Description                             | For chokers diameter in.  |
|-----------|-----------------------------------------|---------------------------|
| SF3CH-038 | 3 Links section 3/8                     | 7/16 – 1/2                |
| SF3CH-012 | 3 Links section 1/2                     | 5/8 – 9/16                |
| SFBC-xxx  | 3/8, 7/16, 1/2, 9/16, 5/8 Taper sleeves | 3/8, 7/16, 1/2, 9/16, 5/8 |
| SFBP-xxx  | 3/8, 7/16, 1/2, 9/16, 5/8 Sraight wall  | 3/8, 7/16, 1/2, 9/16, 5/8 |

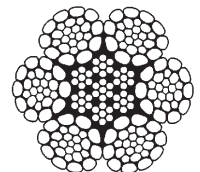
## Choker Sliding Hooks (carbon steel)

| Code     | For cable diameter in. | Eye diameter in. | Throat opening in. | Weight / ea. approx. lbs. |
|----------|------------------------|------------------|--------------------|---------------------------|
| A350-038 | 3/8                    | 11/16            | 5/8                | 0.75                      |
| A350-012 | 1/2                    | 3/4              | 25/32              | 1.25                      |
| A350-058 | 5/8                    | 7/8              | 15/16              | 3.10                      |
| A350-034 | 3/4                    | 1                | 1 5/32             | 5.17                      |



## 6 X 26 Super-swaged

| Super-Swaged |              |                                |                        |
|--------------|--------------|--------------------------------|------------------------|
| Code         | Diameter In. | Minimum Breaking Strength lbs. | Weight per 100 ft lbs. |
| 038626BSS    | 3/8          | 20,400                         | 35                     |
| 716626BSS    | 7/16         | 26,000                         | 46                     |
| 012626BSS    | 1/2          | 34,800                         | 72                     |
| 916626BSS    | 9/16         | 43,800                         | 87                     |
| 058626BSS    | 5/8          | 54,000                         | 104                    |
| 1116626BSS   | 11/16        | 65,000                         | 122                    |
| 034626BSS    | 3/4          | 77,000                         | 185                    |
| 078626BSS    | 7/8          | 104,000                        | 209                    |
| 001626BSS    | 1            | 133,000                        | 244                    |



6 x WS(26) IWRC

## 6 X 26 Swaged

| Regular Swaged |              |                                |                        |
|----------------|--------------|--------------------------------|------------------------|
| Code           | Diameter In. | Minimum Breaking Strength lbs. | Weight per 100 ft lbs. |
| 038626BS       | 3/8          | 18,500                         | 35                     |
| 716626BS       | 7/16         | 24,300                         | 46                     |
| 012626BS       | 1/2          | 31,800                         | 59                     |
| 916626BS       | 9/16         | 40,000                         | 72                     |
| 058626BS       | 5/8          | 49,000                         | 87                     |
| 1116626BS      | 11/16        | 59,000                         | 104                    |
| 034626BS       | 3/4          | 70,000                         | 122                    |
| 078626BS       | 7/8          | 95,000                         | 185                    |
| 001626BS       | 1            | 123,000                        | 209                    |

## 8 X 36 Steel Core (Natural) EIPS

| Code    | Diameter In. | Minimum Breaking Strength lbs. | Weight per 100 ft lbs. |
|---------|--------------|--------------------------------|------------------------|
| 058836B | 5/8          | 36,200                         | 67                     |



# Transport

## Tie-Down Accessories



DR2



DR3



TC9



BAR



RAT1



MCC2



MCC4



PCC



TRS2



TRS5



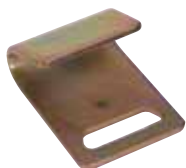
TRS7



RAIL6



CF1



CP2

### Delta Rings

| Code | Dimensions   | Weight / lbs. |
|------|--------------|---------------|
| DR2  | webbing : 2" | 0.2           |
| DR3  | webbing : 3" | 0.8           |

### Rubber Straps w/ "S" Hooks

| Code | Dimensions   | Weight / lbs. |
|------|--------------|---------------|
| TC9  | length : 9"  | 0.2           |
| TC21 | length : 21" | 0.3           |

### Winch Bar

| Code | Dimensions   | Weight / lbs. |
|------|--------------|---------------|
| BAR  | length : 30" | 5.0           |

### Ratchet Buckles

| Code  | Dimensions       | Weight / lbs. |
|-------|------------------|---------------|
| RAT1  | webbing : 1"     | 1.0           |
| RAT2L | webbing : 1 3/4" | 2.5           |
| RAT3L | webbing : 3"     | 7.0           |

### Corner Caps

| Code | Description                           | Weight / lbs. |
|------|---------------------------------------|---------------|
| MCC2 | Cable / Chain & webbing : 1 3/4" - 2" | —             |
| MCC4 | Webbing : 2" - 4"                     | —             |
| PCC  | Plastic webbing : 2" - 4"             | 0.2           |

### Side Winches

| Code | Dimensions | Weight / lbs. |
|------|------------|---------------|
| TRS2 | width : 2" | 3.5           |
| TRS5 | width : 5" | 9.0           |
| TRS7 | width : 7" | 12.0          |

### Sliding Bars

| Code  | Dimensions   | Weight / lbs. |
|-------|--------------|---------------|
| RAIL6 | length : 72" | 35.0          |

### Narrow Wire Hooks

| Code | Dimensions   | Weight / lbs. |
|------|--------------|---------------|
| CF1  | webbing : 1" | 0.1           |
| CF2  | webbing : 2" | 0.6           |
| CF3  | webbing : 3" | 1.6           |

### Flat Hooks

| Code | Dimensions   | Weight / lbs. |
|------|--------------|---------------|
| CP2  | webbing : 2" | 0.7           |
| CP3  | webbing : 3" | 1.1           |
| CP4  | webbing : 4" | 2.0           |



## Load Binders

| Code       | Product      | Chain Size in.                | Capacity lbs. | Weight lbs. | Std Pack |                                                                                       |
|------------|--------------|-------------------------------|---------------|-------------|----------|---------------------------------------------------------------------------------------|
| 55005      | BX 270 Style | 3/16 (G30)                    | 550           | 1.0         | 1        |     |
| 55006      | BX 271 Style | 1/4 (G30 - G40)<br>5/16 (G30) | 2,600         | 3.5         | 1        |     |
| 55007      | BX 320 Style | 5/16 (G40 - G70)<br>3/8 (G40) | 5,400         | 7.0         | 1        |                                                                                       |
| 55008      | BX 400 Style | 3/8 (G40 - G70)<br>1/2 (G40)  | 9,200         | 10.5        | 1        |                                                                                       |
| 55009      | BX 600 Style | 5/16 (G40 - G70)<br>3/8 (G40) | 5,400         | 10.25       | 1        |     |
| 55010      | BX 800 Style | 3/8 (G40 - G70)<br>1/2 (G40)  | 9,200         | 14.0        | 1        |                                                                                       |
| 55014      | Ratchet Type | 1/4 (G40 - G70)<br>5/16 (G30) | 2,600         | 3.85        | 1        |    |
| 55015      | Ratchet Type | 5/16 (G40 - G70)<br>3/8 (G40) | 6,600         | 10.8        | 1        |                                                                                       |
| 55016      | Ratchet Type | 3/8 (G40 - G70)<br>1/2 (G40)  | 9,200         | 12.75       | 1        |                                                                                       |
| 55017      | Ratchet Type | 1/2 (G40 - G70)<br>5/8 (G40)  | 13,000        | 14.55       | 1        |                                                                                       |
| LBS150-012 | Lever Type   | 1/2 (G40 - G70)<br>5/8 (G40)  | 11,000        | 20          | 1        |  |



| Polyester Tie-Down Straps |                              |          |          |          |              |              |              |            |            |            |
|---------------------------|------------------------------|----------|----------|----------|--------------|--------------|--------------|------------|------------|------------|
|                           |                              | 1" x 10' | 1" x 15' | 1" x 20' | 1 3/4" x 15' | 1 3/4" x 20' | 1 3/4" x 25' | 3" x 20'   | 3" x 25'   | 3" x 30'   |
| A                         | Wire Hook                    | PCF110   | PCF115   | PCF120   | PCF215       | PCF220       | PCF225       | PCF320     | PCF325     | PCF330     |
| B                         | Flat Hook                    | —        | —        | —        | PCP215       | PCP220       | PCP225       | PCP320     | PCP325     | PCP330     |
| C                         | Chain Anchor                 | —        | —        | —        | PTCC215      | PTCC220      | PTCC225      | PTCC320    | PTCC325    | PTCC330    |
| D                         | Ratchet & Chain Anchor Strap | —        | —        | —        | BTPTCC 215   | BTPTCC 220   | BTPTCC 225   | BTPTCC 320 | BTPTCC 325 | BTPTCC 330 |
| E                         | Ratchet & Wire Hook          | BTPCF110 | BTPCF115 | BTPCF120 | BTPCF215     | BTPCF220     | BTPCF225     | BTPCF320   | BTPCF325   | BTPCF330   |
| F                         | Ratchet & Flat Hook          | —        | —        | —        | BTPCP215     | BTPCP220     | BTPCP225     | BTPCP320   | BTPCP325   | BTPCP330   |

Any length or accessories available.





## Tie Down Chain (gr 40 — self-colored)



| Code Bulk           | Code Packaged | Diameter in. | Grade | Length ft. | Working Load Limit lbs. | Weight ea. lbs. |
|---------------------|---------------|--------------|-------|------------|-------------------------|-----------------|
| 57055               | 56055         | 5/16         | 40    | 10         | 3,900                   | 10              |
| 57058               | 56058         | 5/16         | 40    | 12         | 3,900                   | 12              |
| 57061               | 56061         | 5/16         | 40    | 14         | 3,900                   | 14              |
| 57064               | 56064         | 5/16         | 40    | 16         | 3,900                   | 16              |
| 57067               | 56067         | 5/16         | 40    | 20         | 3,900                   | 20              |
| 57070               | 56070         | 5/16         | 40    | 25         | 3,900                   | 25              |
| 57056               | 56056         | 3/8          | 40    | 10         | 5,400                   | 14              |
| 57059               | 56059         | 3/8          | 40    | 12         | 5,400                   | 17              |
| 57062               | 56062         | 3/8          | 40    | 14         | 5,400                   | 20              |
| 57065               | 56065         | 3/8          | 40    | 16         | 5,400                   | 22              |
| 57068               | 56068         | 3/8          | 40    | 20         | 5,400                   | 28              |
| 57071               | —             | 3/8          | 40    | 25         | 5,400                   | 35              |
| 57057               | —             | 1/2          | 40    | 10         | 9,200                   | 23              |
| 57060               | —             | 1/2          | 40    | 12         | 9,200                   | 28              |
| 57063               | —             | 1/2          | 40    | 14         | 9,200                   | 32              |
| 57066               | —             | 1/2          | 40    | 16         | 9,200                   | 37              |
| 57068               | —             | 1/2          | 40    | 20         | 9,200                   | 46              |
| Safety factor : 3:1 |               |              |       |            |                         |                 |



## Agricultural Safety Chain for Towed Machines (Grade 70)

| Code Bulk | Code Packaged | Chain Size in. | Length ft | Rated lbs. | Weight / ea. lbs. |
|-----------|---------------|----------------|-----------|------------|-------------------|
| ASC-01405 | 56011         | 1/4            | 5         | 10,000     | 5.5               |
| ASC-51605 | 56012         | 5/16           | 5         | 15,000     | 8.5               |
| ASC-03805 | 56009         | 3/8            | 5         | 20,000     | 11.5              |
| ASC-01205 | 56010         | 1/2            | 5         | 40,000     | 18.5              |
| ASC-01406 | 56013         | 1/4            | 6         | 10,000     | 5.5               |
| ASC-51606 | 56014         | 5/16           | 6         | 15,000     | 8.5               |
| ASC-03806 | 56015         | 3/8            | 6         | 20,000     | 11.5              |
| ASC-01206 | 56016         | 1/2            | 6         | 40,000     | 19.5              |

Custom sizes available on request.



## Cable and Chain Tie Down (Tagged)

| Code       | Cable                    | Chain            | Hook      | WLL lbs. | Weight / ea. lbs. |
|------------|--------------------------|------------------|-----------|----------|-------------------|
| CCTD-01429 | 7 x 19 Galv., 1/4" x 29' | GR. 70 1/4" x 1' | CGH70-516 | 2,333    | 4.698             |

Other combinations of cables, chain and hook available upon request.



## Tow Chain - Gr 70

| Code      | Dimensions  | Weight / ea. lbs. |
|-----------|-------------|-------------------|
| TC7051614 | 5/16" x 14' | 15.0              |
| TC7003816 | 3/8" x 16'  | 24.0              |

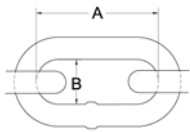


## Tie Down Chain (gr 70 – Chromate Gold)

| Code Bulk           | Code Packaged | Diameter in. | Grade | Length ft. | Working Load Limit lbs. | Weight ea. lbs. |
|---------------------|---------------|--------------|-------|------------|-------------------------|-----------------|
| 57017               | 56017         | 5/16         | 70    | 10         | 4,700                   | 10              |
| 57018               | 56018         | 5/16         | 70    | 12         | 4,700                   | 12              |
| 57004               | 56004         | 5/16         | 70    | 14         | 4,700                   | 14              |
| 57029               | 56029         | 5/16         | 70    | 16         | 4,700                   | 16              |
| 57032               | 56032         | 5/16         | 70    | 20         | 4,700                   | 20              |
| 57022               | 56022         | 5/16         | 70    | 25         | 4,700                   | 25              |
| 57021               | 56021         | 3/8          | 70    | 10         | 6,600                   | 15              |
| 57024               | 56024         | 3/8          | 70    | 12         | 6,600                   | 18              |
| 57025               | 56025         | 3/8          | 70    | 14         | 6,600                   | 21              |
| 57030               | 56030         | 3/8          | 70    | 16         | 6,600                   | 24              |
| 57005               | 56005         | 3/8          | 70    | 20         | 6,600                   | 30              |
| 57035               | —             | 3/8          | 70    | 25         | 6,600                   | 37              |
| 57022               | —             | 1/2          | 70    | 10         | 11,300                  | 23              |
| 57025               | —             | 1/2          | 70    | 12         | 11,300                  | 28              |
| 57028               | —             | 1/2          | 70    | 14         | 11,300                  | 32              |
| 57031               | —             | 1/2          | 70    | 16         | 11,300                  | 37              |
| 57033               | —             | 1/2          | 70    | 20         | 11,300                  | 46              |
| 57036               | —             | 1/2          | 70    | 25         | 11,300                  | 58              |
| Safety factor : 4:1 |               |              |       |            |                         |                 |



## Grade 70 Transport Chain - yellow chromate carbon steel



Grade 70 chain is extremely strong and resistant to wear. It is mainly used for transport tiedowns, towing, lumbering and other similar tasks.



| Chromate Gold |              |         |
|---------------|--------------|---------|
| <i>Drum</i>   |              |         |
| Code          | Diameter in. | Pack ft |
| 53040         | 1/4          | 400     |
| 53041         | 5/16         | 275     |
| 53042         | 3/8          | 200     |
| 53043         | 1/2          | 100     |
| 53047         | 1/2          | 200     |
| <i>Pail</i>   |              |         |
| 52030         | 1/4          | 65      |
| 52031         | 5/16         | 50      |
| 52032         | 3/8          | 45      |
| 52033         | 1/2          | 25      |

| Specifications    |                       |     |                         |                      |
|-------------------|-----------------------|-----|-------------------------|----------------------|
| Diameter in.      | Inside Dimensions in. |     | Working Load Limit lbs. | Weight / 100 ft. lbs |
|                   | A                     | B   |                         |                      |
| 1/4               | 1.00                  | .50 | 3150                    | 71                   |
| 5/16              | 1.12                  | .48 | 4700                    | 102                  |
| 3/8               | 1.20                  | .57 | 6600                    | 143                  |
| 1/2               | 1.70                  | .75 | 11300                   | 234                  |
| Safety Factor 4:1 |                       |     |                         |                      |

Test certificate available – Do not use for overhead lifting



# Transport

## Trailer Safety Chain (Class 1)



| Code  | Chain Diameter in. | Grade | Class | Length in. | Endings           | Weight / ea. lbs |
|-------|--------------------|-------|-------|------------|-------------------|------------------|
| 56090 | 3/16               | 30    | 1     | 36         | 2 x "S" Hooks 3/8 | 0.9              |
| 56091 | 3/16               | 30    | 1     | 48         | 2 x "S" Hooks 3/8 | 1.2              |
| 56092 | 3/16               | 30    | 1     | 60         | 2 x "S" Hooks 3/8 | 1.5              |
| 56093 | 3/16               | 30    | 1     | 72         | 2 x "S" Hooks 3/8 | 1.7              |
| 56094 | 3/16               | 30    | 1     | 24         | 1 x "S" Hook 3/8  | 0.6              |
| 56095 | 3/16               | 30    | 1     | 30         | 1 x "S" Hook 3/8  | 0.7              |
| 56096 | 3/16               | 30    | 1     | 36         | 1 x "S" Hook 3/8  | 0.9              |

## Trailer Safety Chain (Class 2)

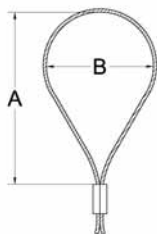


| Code  | Chain Diameter in. | Grade | Class | Length in. | Endings            | Weight / ea. lbs |
|-------|--------------------|-------|-------|------------|--------------------|------------------|
| 56097 | 1/4                | 30    | 2     | 36         | 2 x "S" Hooks 7/16 | 1.6              |
| 56098 | 1/4                | 30    | 2     | 48         | 2 x "S" Hooks 7/16 | 2.1              |
| 56099 | 1/4                | 30    | 2     | 60         | 2 x "S" Hooks 7/16 | 2.0              |
| 56100 | 1/4                | 30    | 2     | 72         | 2 x "S" Hooks 7/16 | 3.1              |
| 56101 | 1/4                | 30    | 2     | 24         | 1 x "S" Hook 7/16  | 1.0              |
| 56102 | 1/4                | 30    | 2     | 30         | 1 x "S" Hook 7/16  | 1.3              |
| 56103 | 1/4                | 30    | 2     | 36         | 1 x "S" Hook 7/16  | 1.6              |

## Trailer Safety Chain (Class 3)

| Code  | Chain Diameter in. | Grade | Class | Length in. | Endings            | Weight / ea. lbs |
|-------|--------------------|-------|-------|------------|--------------------|------------------|
| 56104 | 1/4                | 30    | 3     | 36         | 2 x "S" Hooks 7/16 | 1.6              |
| 56105 | 1/4                | 30    | 3     | 48         | 2 x "S" Hooks 7/16 | 2.1              |
| 56106 | 1/4                | 30    | 3     | 60         | 2 x "S" Hooks 7/16 | 2.0              |
| 56107 | 1/4                | 30    | 3     | 72         | 2 x "S" Hooks 7/16 | 3.1              |
| 56112 | 1/4                | 30    | 3     | 24         | 1 x "S" Hook 7/16  | 1.0              |
| 56109 | 1/4                | 30    | 3     | 30         | 1 x "S" Hook 7/16  | 1.3              |
| 56110 | 1/4                | 30    | 3     | 36         | 1 x "S" Hook 7/16  | 1.6              |

# Assemblies

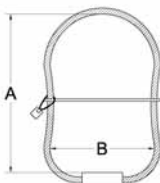


## Loop Wire Rope Concrete Anchors

| Code      | Cable              | Working Load Limit ton | Weight / ea. lbs. | Dimensions in. |    |
|-----------|--------------------|------------------------|-------------------|----------------|----|
|           |                    |                        |                   | A              | B  |
| LWRCA-058 | 6 x 19 Galv., 5/8" | 6                      | 3.72              | 22             | 11 |
| LWRCA-038 | 7 x 19 Galv., 3/8" | 2                      | 1.04              | 18 1/4         | 9  |

Wire rope concrete anchor custom made available.

## Oval Wire Rope Concrete Anchors (tagged)



| Code     | Cable                | Rod              | Working Load Limit ton | Weight / ea. lbs. | Dimensions in. |        |
|----------|----------------------|------------------|------------------------|-------------------|----------------|--------|
|          |                      |                  |                        |                   | A              | B      |
| OWRA-058 | 6 x 19 Galv., 5/8"   | 1/8 x 9' 1/4"    | 6                      | 3.72              | 16 3/4         | 9 1/4  |
| OWRA-034 | 6 x 19 Galv., 3/4"   | 1/8" x 9' 1/4"   | 8                      | 4.83              | 18 7/8         | 9 1/4  |
| OWRA-078 | 6 x 19 Galv., 7/8"   | 3/16" x 11'      | 12                     | 8.35              | 23 1/4         | 11     |
| OWRA-114 | 6 x 37 Galv., 1 1/4" | 3/16" x 15' 3/4" | 25                     | 21.32             | 33 15/32       | 15 3/4 |

Wire rope concrete anchor custom made available.

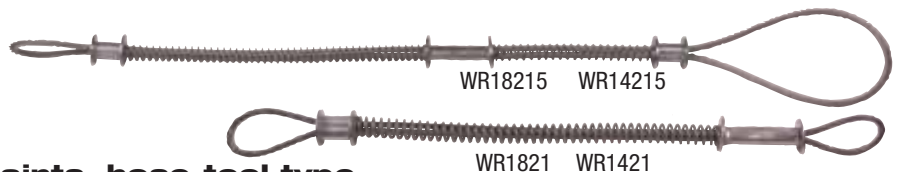


## Whip Restraints, hose-hose type



| Code        | For hose diameter in. | Length in. | Diameter of cable used in. | Weight / ea. approx. lbs. |
|-------------|-----------------------|------------|----------------------------|---------------------------|
| WR1822-15   | 1/2 – 1 1/4           | 15         | 1/8                        | 0.16                      |
| WR1822-18   | 1/2 – 1 1/4           | 18         | 1/8                        | 0.19                      |
| WR1822-20   | 1/2 – 1 1/4           | 20         | 1/8                        | 0.21                      |
| WR1822-22   | 1/2 – 1 1/4           | 22         | 1/8                        | 0.23                      |
| WR1422-24   | 1 1/2 – 3             | 24         | 1/4                        | 0.91                      |
| WR1422-30   | 1 1/2 – 3             | 30         | 1/4                        | 0.92                      |
| WR1422-36   | 1 1/2 – 3             | 36         | 1/4                        | 1.22                      |
| WR1422-37.5 | 1 1/2 – 3             | 37 1/2     | 1/4                        | 1.26                      |
| WR1422-48   | 1 1/2 – 3             | 48         | 1/4                        | 1.50                      |
| WR3822-48   | 3 1/2 – 6             | 48         | 3/8                        | 3.00                      |

*Any length available upon request.*



## Whip Restraints, hose-tool type

| Code    | For hose diameter in. | Length in. | Diameter of cable used in. | Weight / ea. approx. lbs. |
|---------|-----------------------|------------|----------------------------|---------------------------|
| WR18215 | 1/2 – 1 1/4           | 22         | 1/8                        | 0.21                      |
| WR14215 | 1 1/2 – 3             | 37 1/2     | 1/4                        | 1.22                      |
| WR1421  | 1 1/2 – 3             | 23         | 1/4                        | 0.73                      |
| WR1821  | 1/2 – 1 1/4           | 13 1/2     | 1/8                        | 0.15                      |

*Any length available upon request.*

## Whip Restraints, hose-tool type with snap hook



| Code     | For hose diameter Po. / in. | Length in. | Diameter of cable used in. | Weight / ea. approx. lbs. |
|----------|-----------------------------|------------|----------------------------|---------------------------|
| WR1821-S | 1/2 – 1 1/4                 | 14         | 1/8                        | 0.21                      |

*Any length available upon request.*

*Many other models available in stock*

## Tow Cables and Winch Cables

| Code       | Description                        |
|------------|------------------------------------|
| 90300      | Tow Cable 7/32, 7 x 19 GAC x 25'   |
| 90301      | Tow Cable 5/16, 7 x 19 GAC x 25'   |
| 90305      | Winch Cable 3/16, 7 x 19 GAC x 50' |
| ASY-WC-20R | Winch Cable 1/8, 7 x 7 GAC x 20'   |
| ASY-WC-25  | Winch Cable 3/16, 7 x 7 GAC x 25'  |



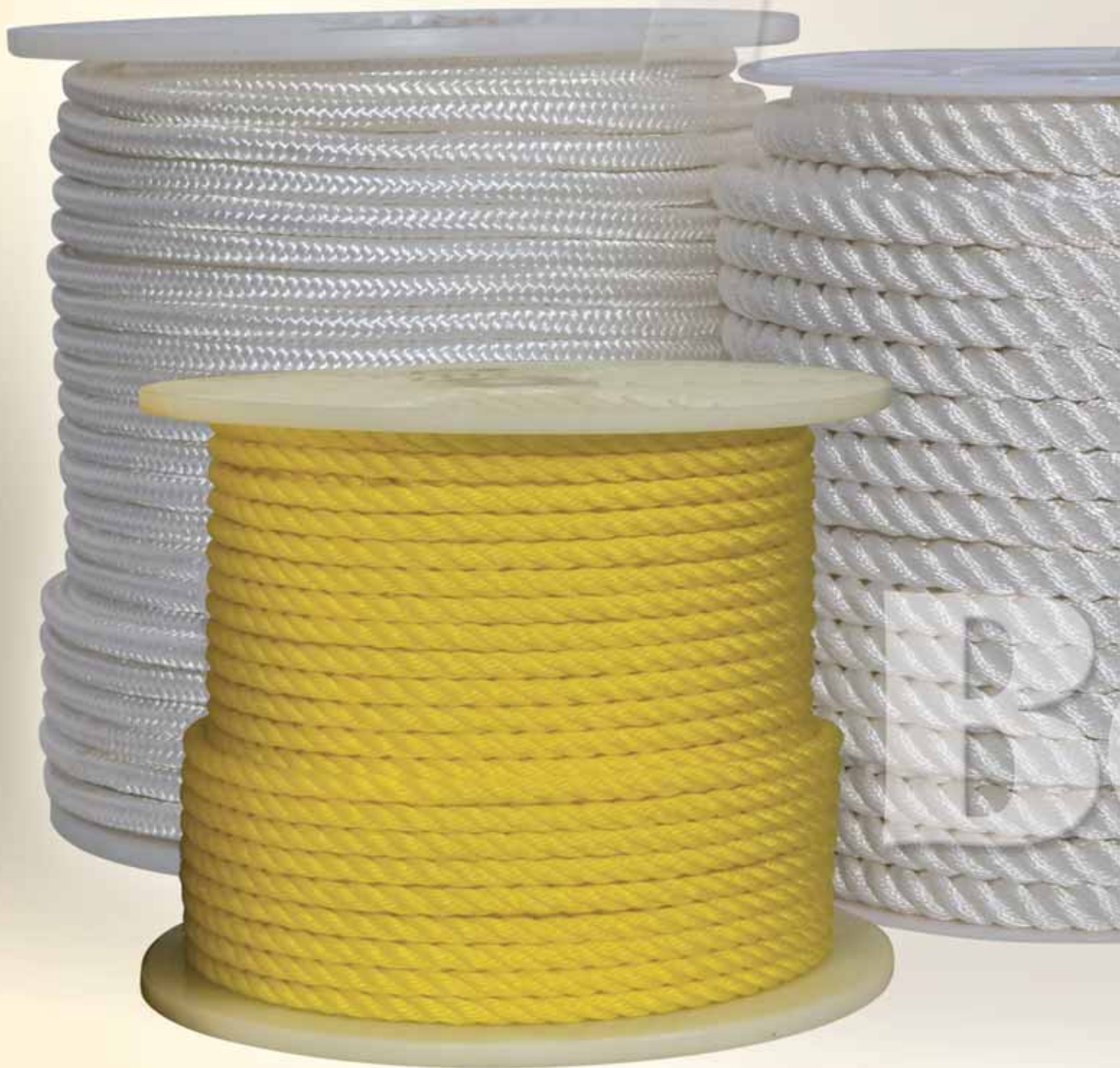
Winch Cable

Tow Cable



*It's not just rope,*

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Polyester

Nylon

Polypropylene

Multifilament(MFP)

Cotton

Jute

Sisal

Manila

Anchor Rope

Dock Rope

Ben-Mor

*it's Ben-Mor rope.*



## Different materials description

- Nylon** Nylon is the strongest of all ropes. It is recognized for its shock resistance and elasticity. Nylon lasts five times longer than natural fibers because it resists abrasion, chemicals, gas, oil and rotting.
- Polyester** Polyester is almost as strong as nylon, but it does not stretch as much. Consequently, its shock resistance is reduced. It is resistant to humidity, mould, chemicals and abrasion. Polyester is more resistant to sun rays than nylon.
- Polypropylene** Generally supple and very light, polypropylene floats, making it particularly popular with the nautical industry. This type of rope is the most popular among average consumers, since it is resistant to humidity, mould, gas, oil and other chemicals. However, it tends to deteriorate when exposed to sun. Polypropylene is weaker than nylon and polyester, but is more economical. On the other hand, it is stronger than natural fibers.
- Manila** This cable is a solid long natural fiber that is resistant to heat and UV rays, unlike synthetic fibers. However, it is vulnerable to humidity and chemicals. It is biodegradable, resists stretching and is the strongest of natural fibers.
- Sisal** Sisal is also a natural biodegradable fibre, but it is much less resistant than manila. It is resistant to UV rays, but is vulnerable to chemicals and mould. It is often used as parcel string, for gardening and for other applications that do not require extreme resistance.
- Jute** This short natural fiber offers very little resistance. Jute is biodegradable and is perfect for parcel string and gardening. Unlike sisal, it is a soft fiber that does not damage plants or bushes.
- Cotton** This short natural fiber is not very resistant. It is biodegradable and is often used as household string for the kitchen, workshop or garage. This fiber has an attractive white appearance, is soft and is very easy to knot.

|                           | Polypropylene           | Nylon                    | Polyester                | Manila    | Sisal/Jute | Cotton    |
|---------------------------|-------------------------|--------------------------|--------------------------|-----------|------------|-----------|
| Resistance to rotting     | ● ● ● ● ●               | ● ● ● ● ●                | ● ● ● ● ●                | ●         | ●          | ●         |
| Resistance to mould       | ● ● ● ● ●               | ● ● ● ● ●                | ● ● ● ● ●                | ●         | ●          | ●         |
| Resistance to oil and gas | ● ● ● ● ●               | ● ● ● ●                  | ● ● ● ● ●                | ● ●       | ● ●        | ● ●       |
| Resistance to acid        | ● ● ● ● ●               | ● ● ● ●                  | ● ● ● ● ●                | ●         | ●          | ●         |
| Handling                  | ● ● ● ●                 | ● ● ● ● ●                | ● ● ● ● ●                | ● ●       | ● ●        | ● ● ● ● ● |
| Durability                | ● ● ● ●                 | ● ● ● ● ●                | ● ● ● ● ●                | ● ●       | ●          | ● ●       |
| Abrasion                  | ● ●                     | ● ● ● ● ●                | ● ● ● ● ●                | ● ●       | ●          | ●         |
| Shock load                | ● ● ● ●                 | ● ● ● ● ●                | ● ● ● ●                  | ● ●       | ●          | ●         |
| Storage                   | dry / humid             | dry / humid              | dry / humid              | dry       | dry        | dry       |
| Floatation                | Yes                     | No                       | No                       | No        | No         | No        |
| Resistance to heat        | weakens at 65°C / 150°F | weakens at 180°C / 350°F | weakens at 180°C / 350°F | no effect | no effect  | no effect |
| Resistance to the sun     | ● ●                     | ● ●                      | ● ● ● ● ●                | ● ● ● ● ● | ● ● ● ● ●  | ● ● ● ● ● |





## Polyester seine twine, mason and chalkline

Made mainly of polyester, this cord resists abrasion and stretching.  
It is a common, general-purpose cord.



| Code  | Size | Length<br>m. ft. |     | Color | Packaging    | CTN |
|-------|------|------------------|-----|-------|--------------|-----|
| 60100 | #18  | 76               | 250 | White | Tube Wrapped | 6   |
| 60101 | #18  | 152              | 500 | White | Tube Wrapped | 6   |
| 60102 | #18  | 300              | 984 | White | Tube Wrapped | 6   |
| 60103 | #24  | 152              | 500 | White | Tube Wrapped | 6   |
| 60104 | #36  | 76               | 250 | White | Tube Wrapped | 6   |

## Twisted nylon, seine, mason and chalkline twine

Made mainly of nylon, this cord resists shocks, offers good elasticity  
and is resistant to UV rays. It is a common, general-purpose cord.



| Code  | Size | Length<br>m. ft. |     | Color         | Packaging    | CTN |
|-------|------|------------------|-----|---------------|--------------|-----|
| 60111 | #18  | 76               | 250 | White         | Tube Wrapped | 6   |
| 60112 | #18  | 152              | 500 | White         | Tube Wrapped | 6   |
| 60116 | #18  | 228              | 750 | Fluo Green    | Tube Wrapped | 6   |
| 60114 | #18  | 76               | 250 | Pink          | Tube Wrapped | 6   |
| 60113 | #18  | 152              | 500 | Pink          | Tube Wrapped | 6   |
| 60115 | #18  | 76               | 250 | Orange        | Tube Wrapped | 6   |
| 60119 | #18  | 152              | 500 | Orange        | Tube Wrapped | 6   |
| 60117 | #18  | 76               | 250 | Bright Yellow | Tube Wrapped | 6   |
| 60118 | #18  | 152              | 500 | Bright Yellow | Tube Wrapped | 6   |

## Braided nylon, seine, mason and chalkline twine

Made mainly of nylon, this cord resists shocks, offers good elasticity  
and is resistant to UV rays. It is a common, general-purpose cord.



| Code  | Size | Length<br>m. ft. |     | Color       | Packaging    | CTN |
|-------|------|------------------|-----|-------------|--------------|-----|
| 60127 | #18  | 76               | 250 | White       | Tube Wrapped | 6   |
| 60129 | #18  | 152              | 500 | White       | Tube Wrapped | 6   |
| 60125 | #18  | 61               | 200 | Pink        | Tube Wrapped | 6   |
| 60128 | #18  | 152              | 500 | Pink        | Tube Wrapped | 6   |
| 60130 | #18  | 152              | 500 | Fluo Orange | Tube Wrapped | 6   |

## Polypropylene twine

This string is the only one that floats. It is economical for general use  
and is durable, light and resistant to oil, gas and mould.



| Code  | Size   | Length<br>m. ft. |      | Color      | Packaging    | CTN |
|-------|--------|------------------|------|------------|--------------|-----|
| 60638 | Medium | 76               | 250  | White/blue | Tube Wrapped | 6   |
| 60640 | Medium | 153              | 500  | White/blue | Tube Wrapped | 6   |
| 60641 | Medium | 475              | 1500 | White/blue | Tube Wrapped | 6   |
| 60642 | Medium | 914              | 3000 | Beige      | Tube Wrapped | 1   |
| 60643 | Medium | 49               | 160  | White      | Tube Wrapped | 6   |
| 60646 | Medium | 2133             | 7000 | White      | Tube Wrapped | 1   |





## Polyester twine

String for general use that requires greater resistance. Ideal for drapes, awnings, gardening, wrapping and more.

| Code  | Size   | Length<br>m. ft. |      | Color | Packaging    | CTN |
|-------|--------|------------------|------|-------|--------------|-----|
| 60544 | Fine   | 305              | 1000 | White | Tube Wrapped | 6   |
| 60550 | Medium | 11               | 36   | White | Tube Wrapped | 6   |

## Twisted cotton twine

One-hundred percent biodegradable cotton that handles well. It is easy to knot, is ideal for the kitchen and is excellent for general use.

| Code  | Size                | Length<br>m. ft. |     | Color | Packaging    | CTN |
|-------|---------------------|------------------|-----|-------|--------------|-----|
| 60528 | Fine - #15          | 91               | 300 | White | Tube Wrapped | 6   |
| 60529 | Fine - #16          | 61               | 200 | White | Tube Wrapped | 6   |
| 60530 | Fine                | 122              | 400 | White | Tube Wrapped | 6   |
| 60532 | Fine - for butcher  | 122              | 400 | White | Tube Wrapped | 6   |
| 60534 | Medium              | 128              | 420 | White | Tube Wrapped | 6   |
| 60536 | Medium              | 152              | 500 | White | Tube Wrapped | 6   |
| 60540 | Large - for kitchen | 61               | 200 | White | Tube Wrapped | 6   |
| 60542 | Large - for butcher | 100              | 328 | White | Tube Wrapped | 6   |
| 60543 | Large - for butcher | 256              | 840 | White | Tube Wrapped | 6   |

## Braided cotton rope

Economical, general-purpose household string. Ideal for awnings and frames but also for gardening, wrapping and more.

| Code  | Use            | Size<br>mm in. |      | Length<br>m. ft. |     | Color | Packaging | CTN |
|-------|----------------|----------------|------|------------------|-----|-------|-----------|-----|
| 60610 | General        | 2,8            | 7/64 | 14               | 45  | White | Hank      | 6   |
| 60600 | General        | 4,8            | 3/16 | 15               | 50  | White | Hank      | 6   |
| 60602 | General        | 4,8            | 3/16 | 30               | 100 | White | Hank      | 6   |
| 60614 | Awning         | 3,6            | 1/8  | 15               | 50  | White | Hank      | 6   |
| 60625 | Awning         | 4,8            | 3/16 | 30               | 100 | White | Hank      | 6   |
| 60606 | Sash           | 5,6            | 7/32 | 30               | 100 | White | Hank      | 12  |
| 60605 | Sash           | 5,6            | 7/32 | 76               | 500 | White | Reel      | 1   |
| 60603 | Sash           | 6,4            | 1/4  | 30               | 100 | White | Hank      | 6   |
| 60604 | Sash           | 9,5            | 3/8  | 73               | 240 | White | Reel      | 1   |
| 60611 | Venetian blind | 3,6            | 9/64 | 9                | 30  | White | Hank      | 6   |

## Twisted cotton rope, 3 strands

One-hundred percent cotton that handles well. It is easy to knot, and is ideal for equestrian centers and for general use.

| Code  | Size<br>mm in. |     | Length<br>m. ft. |     | Color | Packaging | CTN |
|-------|----------------|-----|------------------|-----|-------|-----------|-----|
| 60546 | 9,5            | 3/8 | 183              | 600 | White | Reel      | 1   |
| 60547 | 12,7           | 1/2 | 91               | 300 | White | Reel      | 1   |
| 60549 | 16             | 5/8 | 61               | 200 | White | Reel      | 1   |



## Jute twine

Softer than sisal, jute is an economical household string. It is ideal for gardening, wrapping and other uses that do not require extreme resistance.



| Code  | Size             | Length<br>m. ft. | Color | Packaging    | CTN |
|-------|------------------|------------------|-------|--------------|-----|
| 60560 | 2 strands fine   | 90 295           | Brown | Tube Wrapped | 6   |
| 60562 | 2 strands large  | 35 115           | Brown | Tube Wrapped | 6   |
| 60564 | 2 strands large  | 61 200           | Green | Tube Wrapped | 6   |
| 60566 | 2 strands large  | 305 1000         | Brown | Tube Wrapped | 1   |
| 60568 | 2 strands large  | 58 190           | Brown | Tube Wrapped | 1   |
| 60570 | 2 strands medium | 50 165           | Brown | Tube Wrapped | 6   |
| 60571 | 2 strands medium | 59 260           | Green | Tube Wrapped | 6   |
| 60572 | 2 strands medium | 151 495          | Brown | Tube Wrapped | 6   |
| 60574 | 2 strands medium | 79 260           | Brown | Tube Wrapped | 6   |
| 60576 | 3 strands large  | 68 222           | Brown | Tube Wrapped | 6   |
| 60578 | 3 strands large  | 338 1110         | Brown | Tube Wrapped | 1   |

## Twisted sisal twine to tie

Not as soft as jute, this string is economical for household use. Ideal for gardening, wrapping and other uses that do not require extreme resistance.



| Code  | Size            | Length<br>m. ft. | Color   | Packaging    | CTN |
|-------|-----------------|------------------|---------|--------------|-----|
| 60500 | 1 strand        | 30 100           | Natural | Tube Wrapped | 6   |
| 60513 | 1 strand        | 183 600          | Natural | Tube Wrapped | 6   |
| 60514 | 2 strands       | 91 300           | Natural | Tube Wrapped | 6   |
| 60516 | 2 strands       | 427 1400         | Natural | Tube Wrapped | 6   |
| 60518 | 2 strands large | 38 125           | Natural | Tube Wrapped | 6   |

## Sisal rope

Not as soft as jute, this string is economical for household use. Ideal for gardening, wrapping and other uses that do not require extreme resistance.



| Code  | Size<br>mm in. | Length<br>m. ft. | Color   | Packaging    | CTN |
|-------|----------------|------------------|---------|--------------|-----|
| 60502 | 6,4 1/4        | 15 50            | Natural | Coil Wrapped | 6   |
| 60503 | 6,4 1/4        | 30 100           | Natural | Coil Wrapped | 6   |
| 60504 | 6,4 1/4        | 152 500          | Natural | Coil Wrapped | 4   |
| 60508 | 9,5 3/8        | 15 50            | Natural | Coil Wrapped | 6   |
| 60509 | 9,5 3/8        | 183 600          | Natural | Coil Wrapped | 2   |
| 60510 | 12,7 1/2       | 15 50            | Natural | Coil Wrapped | 6   |
| 60511 | 12,7 1/2       | 91 300           | Natural | Coil Wrapped | 2   |

## 3 strands twisted manila rope

Made of natural fibre, it is resistant to heat and UV rays. It will not melt in contact with heat as synthetics will. It is highly resistant to stretching; however, it is vulnerable to mould.



| Code  | Size<br>mm in. | Length<br>m. ft. | Color       | Packaging         | CTN |
|-------|----------------|------------------|-------------|-------------------|-----|
| 60586 | 64 1/4         | 30 100           | Brown-beige | Wrapped mini-coil | 6   |
| 60588 | 9,5 3/8        | 15 50            | Brown-beige | Wrapped mini-coil | 6   |
| 60590 | 9,5 3/8        | 183 600          | Brown-beige | Reel              | 1   |
| 60592 | 12,7 1/2       | 61 200           | Brown-beige | Reel              | 1   |
| 60596 | 16 5/8         | 61 200           | Brown-beige | Reel              | 1   |
| 60598 | 19 3/4         | 48 150           | Brown-beige | Reel              | 1   |
| 60599 | 25,4 1         | 183 600          | Brown-beige | Reel              | 1   |



## Twisted polypropylene rope, 3 strands



An economical, durable, lightweight, general-purpose cord that floats. It is also resistant to oil, gas and mould. It is used widely in industry, business and construction and for residential use.

| Code  | Size<br>mm in. | Length<br>m. ft. | Color  | Packaging | CTN |
|-------|----------------|------------------|--------|-----------|-----|
| 60140 | 4,8 3/16       | 15 50            | Yellow | Hank      | 6   |
| 60142 | 4,8 3/16       | 30 100           | Yellow | Hank      | 6   |
| 60165 | 4,8 3/16       | 274 900          | Yellow | Reel      | 1   |
| 60167 | 4,8 3/16       | 648 2125         | Yellow | Reel      | 1   |
| 60169 | 4,8 3/16       | 648 2125         | White  | Reel      | 1   |
| 60144 | 6,4 1/4        | 15 50            | White  | Hank      | 6   |
| 60145 | 6,4 1/4        | 15 50            | Blue   | Hank      | 6   |
| 60147 | 6,4 1/4        | 30 100           | Blue   | Hank      | 6   |
| 60150 | 6,4 1/4        | 30 100           | Tan    | Hank      | 6   |
| 60160 | 6,4 1/4        | 15 50            | Yellow | Hank      | 6   |
| 60148 | 6,4 1/4        | 30 100           | Yellow | Hank      | 6   |
| 60149 | 6,4 1/4        | 30 100           | White  | Hank      | 6   |
| 60181 | 6,4 1/4        | 168 550          | Yellow | Reel      | 1   |
| 60183 | 6,4 1/4        | 168 550          | White  | Reel      | 1   |
| 60185 | 6,4 1/4        | 168 550          | Green  | Reel      | 1   |
| 60191 | 6,4 1/4        | 396 1300         | Yellow | Reel      | 1   |
| 60194 | 7,9 5/16       | 183 600          | Yellow | Reel      | 1   |
| 60195 | 7,9 5/16       | 274 900          | Yellow | Reel      | 1   |
| 60152 | 9,5 3/8        | 15 50            | Yellow | Hank      | 6   |
| 60162 | 9,5 3/8        | 15 50            | White  | Hank      | 6   |
| 60154 | 9,5 3/8        | 30 100           | Yellow | Hank      | 6   |
| 60199 | 9,5 3/8        | 76 250           | Yellow | Reel      | 1   |
| 60201 | 9,5 3/8        | 76 250           | Green  | Reel      | 1   |

| Code  | Size<br>mm in. | Length<br>m. ft. | Color  | Packaging | CTN |
|-------|----------------|------------------|--------|-----------|-----|
| 60203 | 9,5 3/8        | 76 250           | Black  | Reel      | 1   |
| 60205 | 9,5 3/8        | 76 250           | Blue   | Reel      | 1   |
| 60207 | 9,5 3/8        | 76 250           | Red    | Reel      | 1   |
| 60209 | 9,5 3/8        | 183 600          | Yellow | Reel      | 1   |
| 60211 | 9,5 3/8        | 183 600          | Green  | Reel      | 1   |
| 60156 | 12,7 1/2       | 15 50            | Yellow | Hank      | 6   |
| 60157 | 12,7 1/2       | 15 50            | Black  | Hank      | 6   |
| 60213 | 12,7 1/2       | 91 300           | Brown  | Reel      | 1   |
| 60215 | 12,7 1/2       | 102 335          | Yellow | Reel      | 1   |
| 60218 | 12,7 1/2       | 102 335          | Green  | Reel      | 1   |
| 60231 | 12,7 1/2       | 102 335          | Red    | Reel      | 1   |
| 60219 | 12,7 1/2       | 102 335          | Blue   | Reel      | 1   |
| 60221 | 12,7 1/2       | 102 335          | White  | Reel      | 1   |
| 60222 | 12,7 1/2       | 102 335          | Black  | Reel      | 1   |
| 60220 | 16 5/8         | 61 200           | Green  | Reel      | 1   |
| 60223 | 16 5/8         | 61 200           | Yellow | Reel      | 1   |
| 60225 | 16 5/8         | 61 200           | Blue   | Reel      | 1   |
| 60226 | 16 5/8         | 61 200           | Rouge  | Reel      | 1   |
| 60224 | 16 5/8         | 183 600          | Yellow | Reel      | 1   |
| 60217 | 16 5/8         | 61 250           | Black  | Reel      | 1   |
| 60229 | 19 3/4         | 48 150           | Yellow | Reel      | 1   |
| 60227 | 19 3/4         | 183 600          | Yellow | Reel      | 1   |
| 60228 | 25 1           | 48 150           | Yellow | Reel      | 1   |

## Diamond braided polyester rope



Cord that is often used for clotheslines and general applications. Made of polyester, this cord resists stretching, UV rays and abrasion.

| Code  | Use         | Size<br>mm in. | Length<br>m. ft. | Color                               | Packaging | CTN |
|-------|-------------|----------------|------------------|-------------------------------------|-----------|-----|
| 60285 | General     | 3,2 1/8        | 76 250           | Blue with yellow and black stripes  | Mini-reel | 1   |
| 60630 | General     | 4 5/32         | 14 45            | Orange                              | Hank      | 6   |
| 60633 | General     | 4 5/32         | 30 100           | White                               | Hank      | 6   |
| 60289 | General     | 4,8 3/16       | 76 250           | Blue with yellow and black stripes  | Mini-reel | 1   |
| 60282 | General     | 5,6 7/32       | 15 50            | White with yellow and black stripes | Hank      | 6   |
| 60634 | General     | 5,6 7/32       | 15 50            | White                               | Hank      | 6   |
| 60635 | General     | 5,6 7/32       | 30 100           | White                               | Hank      | 6   |
| 60006 | General     | 7,9 5/16       | 15 50            | White                               | Hank      | 6   |
| 60023 | Clothesline | 4,8 3/16       | 15 50            | White                               | Hank      | 6   |
| 60018 | Clothesline | 4,8 3/16       | 15 50            | White and red                       | Hank      | 6   |
| 60013 | Clothesline | 4,8 3/16       | 30 100           | White                               | Hank      | 6   |
| 60014 | Clothesline | 4,8 3/16       | 61 200           | Blue with yellow and black stripes  | Mini-reel | 1   |
| 60012 | Clothesline | 6,4 1/4        | 30 100           | White with blue stripes             | Hank      | 6   |
| 60017 | Clothesline | 6,4 1/4        | 30 100           | White                               | Hank      | 6   |
| 60011 | Clothesline | 6,4 1/4        | 46 150           | White with blue stripes             | Hank      | 6   |
| 60016 | Clothesline | 6,4 1/4        | 46 150           | White                               | Hank      | 6   |
| 60019 | Clothesline | 6,4 1/4        | 274 900          | White                               | Reel      | 1   |
| 60022 | Clothesline | 9,5 3/8        | 152 500          | White and blue                      | Mini-reel | 1   |



## Double braided polypropylene rope

General use, durable, lightweight cord that floats and resists abrasion. Also resistant to oil, gas and mould. It is often used as waterskiing cable and for hitching dogsleds.



| Code  | Size   |      | Length |     | Color                           | Packaging         | CTN |
|-------|--------|------|--------|-----|---------------------------------|-------------------|-----|
|       | mm     | in.  | m.     | ft. |                                 |                   |     |
| 60240 | 4      | 5/32 | 15     | 50  | Grey                            | Hank              | 6   |
| 60242 | 4      | 5/32 | 23     | 75  | Kaki                            | Plastic hand reel | 6   |
| 60232 | 4,8    | 3/16 | 20     | 65  | White with red marks            | Hank              | 6   |
| 60238 | 5,6    | 7/32 | 15     | 50  | White                           | Hank              | 6   |
| 60239 | 5,6    | 7/32 | 30     | 100 | White                           | Hank              | 6   |
| 60230 | 6,4    | 1/4  | 30     | 100 | Varied Fluo                     | Plastic hand reel | 6   |
| 60252 | 7,9    | 5/16 | 15     | 50  | Yellow with orange marks        | Hank              | 6   |
| 60253 | 7,9    | 5/16 | 30     | 100 | Yellow with orange marks        | Hank              | 6   |
| 60236 | 9,5    | 3/8  | 30     | 100 | Green with yellow and red marks | Hank              | 6   |
| 60235 | 9,5    | 3/8  | 15     | 50  | Varied                          | Hank              | 6   |
| 60237 | 9,5    | 3/8  | 30     | 100 | Varied                          | Hank              | 6   |
| 60552 | Medium |      | 15     | 50  | Orange                          | Tube Wrapped      | 6   |

## Hollow braided polypropylene rope

Durable, lightweight, general-purpose cord that floats and resists abrasion. It is also resistant to oil, gas and mould. It is easy to splice and is often used as water-skiing cable and for hitching dogsleds.



| Code  | Size |      | Length |      | Color          | Packaging | CTN |
|-------|------|------|--------|------|----------------|-----------|-----|
|       | mm   | in.  | m.     | ft.  |                |           |     |
| 60206 | 4    | 5/32 | 14     | 45   | Yellow         | Hank      | 6   |
| 60200 | 6,4  | 1/4  | 15     | 50   | Yellow         | Hank      | 6   |
| 60202 | 6,4  | 1/4  | 30     | 100  | Yellow         | Hank      | 6   |
| 60208 | 6,4  | 1/4  | 305    | 1000 | Yellow         | Reel      | 1   |
| 60204 | 9,5  | 3/8  | 15     | 50   | Yellow         | Hank      | 6   |
| 60212 | 9,5  | 3/8  | 15     | 50   | Blue and white | Hank      | 6   |
| 60214 | 9,5  | 3/8  | 152    | 500  | Yellow         | Reel      | 1   |
| 60216 | 12,7 | 1/2  | 91     | 300  | Yellow         | Reel      | 1   |

## Solid braided polypropylene rope (derby)

Cord with a velvety, supple feel, often used for horse halters and leads. Much more durable and resistant to abrasion because of its unique design. It floats and is used in the nautical industry.



| Code  | Size |     | Length |     | Color           | Packaging | CTN |
|-------|------|-----|--------|-----|-----------------|-----------|-----|
|       | mm   | in. | m.     | ft. |                 |           |     |
| 60260 | 9,5  | 3/8 | 15     | 50  | White           | Reel      | 1   |
| 60261 | 9,5  | 3/8 | 91     | 300 | Red and white   | Reel      | 1   |
| 60262 | 9,5  | 3/8 | 91     | 300 | Blue and white  | Reel      | 1   |
| 60263 | 9,5  | 3/8 | 122    | 400 | Blue and white  | Reel      | 1   |
| 60264 | 12,7 | 1/2 | 46     | 150 | Blue and white  | Reel      | 1   |
| 60265 | 12,7 | 1/2 | 46     | 150 | Blue            | Reel      | 1   |
| 60266 | 12,7 | 1/2 | 46     | 150 | Black           | Reel      | 1   |
| 60269 | 12,7 | 1/2 | 46     | 150 | Red             | Reel      | 1   |
| 60270 | 12,7 | 1/2 | 76     | 250 | Green           | Reel      | 1   |
| 60271 | 16   | 5/8 | 61     | 200 | Green and white | Reel      | 1   |
| 60273 | 16   | 5/8 | 61     | 200 | Blue and white  | Reel      | 1   |





## Double braided nylon rope



The strongest of general-purpose cords, it effectively resists abrasions. It is frequently used as cord for towing, mooring and anchoring boats and other extreme applications.

| Code  | Size |      | Length |      | Color | Packaging | CTN |
|-------|------|------|--------|------|-------|-----------|-----|
|       | mm   | in.  | m.     | ft.  |       |           |     |
| 60424 | 6,4  | 1/4  | 183    | 600  | White | Mini-reel | 1   |
| 60391 | 7,9  | 5/16 | 76     | 250  | White | Mini-reel | 1   |
| 60392 | 9,5  | 3/8  | 76     | 250  | White | Reel      | 1   |
| 60425 | 9,5  | 3/8  | 91     | 300  | White | Reel      | 1   |
| 60393 | 12,7 | 1/2  | 122    | 400  | White | Reel      | 1   |
| 60395 | 16   | 5/8  | 61     | 200  | White | Reel      | 1   |
| 60396 | 16   | 5/8  | 76     | 250  | White | Reel      | 1   |
| 60426 | 16   | 5/8  | 91     | 3000 | White | Reel      | 1   |
| 60397 | 19   | 3/4  | 76     | 250  | White | Reel      | 1   |
| 60398 | 25   | 1    | 76     | 250  | White | Reel      | 1   |

## Diamond braided nylon rope



The strongest of general-purpose cords, it effectively resists abrasions. It is frequently used commercially and industrially and is also used as cord for Venetian blinds, awnings, pulleys as well as for towing, mooring and anchoring boats and other extreme applications.

| Code  | Size |      | Length |     | Color | Packaging | CTN |
|-------|------|------|--------|-----|-------|-----------|-----|
|       | mm   | in.  | m.     | ft. |       |           |     |
| 60383 | 2,4  | 3/32 | 76     | 250 | White | Mini-reel | 1   |
| 60124 | 3,2  | 1/8  | 15     | 48  | White | Hank      | 6   |
| 60350 | 3,2  | 1/8  | 15     | 48  | White | Hank      | 6   |
| 60377 | 3,2  | 1/8  | 76     | 250 | White | Mini-reel | 1   |
| 60381 | 3,2  | 1/8  | 183    | 600 | White | Mini-reel | 1   |
| 60385 | 4    | 5/32 | 76     | 250 | White | Mini-reel | 1   |
| 60410 | 4,8  | 3/16 | 15     | 50  | White | Hank      | 6   |
| 60412 | 4,8  | 3/16 | 30     | 100 | White | Hank      | 6   |
| 60411 | 4,8  | 3/16 | 122    | 400 | White | Mini-reel | 1   |
| 60387 | 4,8  | 3/16 | 152    | 500 | White | Mini-reel | 1   |
| 60419 | 4,8  | 3/16 | 183    | 600 | White | Mini-reel | 1   |
| 60354 | 6,4  | 1/4  | 15     | 50  | White | Hank      | 6   |
| 60356 | 6,4  | 1/4  | 130    | 100 | White | Hank      | 6   |
| 60423 | 6,4  | 1/4  | 61     | 200 | White | Mini-reel | 1   |
| 60389 | 6,4  | 1/4  | 76     | 250 | White | Mini-reel | 1   |
| 60390 | 7,9  | 5/16 | 15     | 50  | White | Hank      | 6   |
| 60388 | 7,9  | 5/16 | 76     | 250 | White | Mini-reel | 1   |
| 60422 | 9,5  | 3/8  | 61     | 200 | White | Reel      | 1   |
| 60427 | 12,7 | 1/2  | 91     | 300 | White | Reel      | 1   |

## Elastic stretch rope



An elastic cord with a rubber centre covered by a mix of nylon and polyester strands, it is often used for commercial, nautical and domestic applications.

| Code  | Size |      | Length |     | Color                    | Packaging | CTN |
|-------|------|------|--------|-----|--------------------------|-----------|-----|
|       | mm   | in.  | m.     | ft. |                          |           |     |
| 60475 | 3,2  | 1/8  | 152    | 500 | White with black stripes | Mini-reel | 1   |
| 60477 | 4,8  | 3/16 | 152    | 500 | White with black stripes | Mini-reel | 1   |
| 60479 | 6,4  | 1/4  | 76     | 250 | White with black stripes | Mini-reel | 1   |
| 60483 | 6,4  | 1/4  | 152    | 500 | Black                    | Reel      | 1   |
| 60478 | 9,5  | 3/8  | 76     | 250 | White with black stripes | Reel      | 1   |



### 3 strands twisted nylon rope

Rope with a superior resistance to abrasion and shocks. Ideal in the nautical industry, as towing cable and other uses that require a great strength.



| Code  | Size<br>mm in. | Length<br>m. ft. | Color | Packaging         | CTN |
|-------|----------------|------------------|-------|-------------------|-----|
| 60375 | 3,2 1/8        | 76 250           | White | Mini-reel         | 1   |
| 60316 | 4,8 3/16       | 15 50            | White | Hank              | 6   |
| 60317 | 4,8 3/16       | 30 100           | White | Hank              | 6   |
| 60300 | 6,4 1/4        | 15 50            | White | Hank              | 6   |
| 60302 | 6,4 1/4        | 30 100           | White | Hank              | 6   |
| 60305 | 6,4 1/4        | 183 600          | White | Reel              | 1   |
| 60307 | 6,4 1/4        | 396 1300         | White | Reel              | 1   |
| 60304 | 9,5 3/8        | 15 50            | White | Hank              | 6   |
| 60309 | 9,5 3/8        | 192 630          | White | Reel              | 1   |
| 60306 | 12,7 1/2       | 15 50            | White | Wrapped mini-coil | 6   |
| 60312 | 12,7 1/2       | 61 200           | White | Reel              | 1   |
| 60313 | 16 5/8         | 61 200           | White | Reel              | 1   |
| 60311 | 19 3/4         | 46 150           | White | Reel              | 1   |
| 60314 | 25 1           | 46 150           | White | Reel              | 1   |

### Starting nylon rope

Tightly manufactured starting rope that resists abrasion and shocks related to starting a motor. Also used for pulleys, venetian blinds, awnings and other general purposes.



| Code  | Size<br>mm in. | Length<br>m. ft. | Color                    | Packaging               | CTN |
|-------|----------------|------------------|--------------------------|-------------------------|-----|
| 60441 | 2,8 7/64       | 76 250           | White with black stripes | Mini-reel               | 1   |
| 60443 | 3,2 1/8        | 76 250           | White with black stripes | Mini-reel               | 1   |
| 60444 | 3,2 1/8        | 305 1000         | White                    | Reel                    | 1   |
| 60442 | 3,6 9/64       | 76 250           | White                    | Mini-reel               | 1   |
| 60438 | 4 5/32         | 1 3,25           | White                    | Plastic bag with handle | 6   |
| 60439 | 4 5/32         | 76 250           | White                    | Mini-reel               | 1   |
| 60445 | 4,8 3/16       | 145 475          | White                    | Mini-reel               | 1   |
| 60446 | 7,9 5/16       | 53 175           | White                    | Mini-reel               | 1   |

### Accessories

| Code  | Description                                 | Packaging                  | CTN |
|-------|---------------------------------------------|----------------------------|-----|
| 60925 | Pack of 2 vinyl coated hooks and rope clips | Bag with suspension header | 6   |
| 60926 | Thimble and rope clips                      | Bag with suspension header | 6   |
| 60927 | Pack of 2 rope clips                        | Bag with suspension header | 6   |



# Tie Wire

## Galvanized Steel Wire



| Code  | Diameter Ga. | Length m. | Qty Ctn | Packaging |
|-------|--------------|-----------|---------|-----------|
| 93000 | 14           | 15        | 5       | Coiled    |
| 93001 | 16           | 15        | 5       | Coiled    |
| 93002 | 18           | 30        | 5       | Coiled    |
| 93003 | 19           | 15        | 5       | Coiled    |
| 93004 | 19           | 50        | 5       | Coiled    |
| 93005 | 20           | 15        | 5       | Coiled    |
| 93006 | 20           | 50        | 5       | Coiled    |
| 93020 | 20           | 50        | 5       | Hand Reel |

## Braided Galvanized Steel Wire



| Code  | Diameter # | Length m. | Qty Ctn | Packaging |
|-------|------------|-----------|---------|-----------|
| 93010 | 2          | 7,6       | 5       | Coiled    |
| 93011 | 3          | 7,6       | 5       | Coiled    |
| 93012 | 4          | 7,6       | 5       | Coiled    |
| 93013 | 5          | 7,6       | 5       | Coiled    |
| 93014 | 6          | 7,6       | 5       | Coiled    |

## Stainless Steel Wire



| Code  | Diameter Ga. | Length m. | Qty Ctn | Packaging |
|-------|--------------|-----------|---------|-----------|
| 93030 | 19           | 15        | 5       | Coiled    |
| 93031 | 20           | 7         | 5       | Coiled    |
| 93025 | 20           | 50        | 5       | Hand reel |

## Aluminum Wire



| Code  | Diameter Ga. | Length m. | Qty Ctn | Packaging      |
|-------|--------------|-----------|---------|----------------|
| 93035 | 18           | 15,4      | 5       | Coiled         |
| 93036 | 20           | 7,5       | 5       | Coiled         |
| 93037 | 20           | 50        | 5       | Coiled         |
| 93038 | 20           | 50        | 5       | Machine Coiled |

## Brass Wire



| Code  | Diameter Ga. | Length m. | Qty Ctn | Packaging |
|-------|--------------|-----------|---------|-----------|
| 93040 | 20           | 6,4       | 5       | Coiled    |
| 93043 | 20           | 10,4      | 5       | Coiled    |
| 93041 | 20           | 50        | 5       | Coiled    |
| 93048 | 20           | 50        | 5       | Hand reel |
| 93042 | 21           | 8,4       | 5       | Coiled    |
| 93044 | 24           | 16,4      | 5       | Coiled    |



## Copper Wire

| Code  | Diameter Ga. | Length m. | Qty Ctn | Packaging      |
|-------|--------------|-----------|---------|----------------|
| 93055 | 20           | 7,5       | 5       | Coiled         |
| 93056 | 20           | 50        | 5       | Coiled         |
| 93050 | 20           | 50        | 5       | Machine Coiled |



## Black Steel Wire

| Code  | Diameter Ga. | Length m.    | Qty Ctn | Packaging      |
|-------|--------------|--------------|---------|----------------|
| 93065 | 16           | 85 (3.5lbs.) | 5       | Hand reel      |
| 93066 | 19           | 15           | 5       | Coiled         |
| 93067 | 19           | 50           | 5       | Coiled         |
| 93068 | 20           | 50           | 5       | Coiled         |
| 93069 | 20           | 50           | 5       | Machine Coiled |



## Green PVC Coated Steel Wire

| Code  | Diameter Ga. | Length m. | Qty Ctn | Packaging |
|-------|--------------|-----------|---------|-----------|
| 93070 | 16           | 15        | 5       | Coiled    |
| 93071 | 18           | 30        | 5       | Coiled    |
| 93072 | 20           | 30        | 5       | Coiled    |
| 93080 | 20           | 30        | 5       | Hand reel |



## BEN-MOR

### *A winning Team !*

#### 2003

St-Hyacinthe's Chamber of Commerce - Excellence in Business Awards

Winner in the categories:

"Customer Orientation"

"New Investment Project"

"Grand Prize of the Jury"

#### 1999

First Prize Any Age Entrepreneur presented by the Government of Québec

#### 1998

Winner of the Best New Exporter Award presented by the Government of Québec

#### 1997

Winner of the Best Young Enterprise Award  
presented by St-Hyacinthe Chamber of Commerce

#### 1996

First Prize in the Bourse Desjardin's Young Entrepreneur Award

#### 1995

Third Prize in the Bourse Desjardin's Young Entrepreneur Award

#### 1994

Received the Federal Bank of Development's Young Entrepreneur Award  
(Province of Québec)

#### 1993

Received the Federal Bank of Development's Young Entrepreneur Award  
(first year in business)





# Conversion Table & Glossary

## Conversion table

| Fractions | Decimals | mm      |
|-----------|----------|---------|
| 1/64"     | 0.015625 | 0.3969  |
| 1/32"     | 0.03125  | 0.7938  |
| 3/64"     | 0.046875 | 1.1906  |
| 1/16"     | 0.0625   | 1.5875  |
| 5/64"     | 0.078125 | 1.9844  |
| 3/32"     | 0.09375  | 2.3812  |
| 7/64"     | 0.109375 | 2.7781  |
| 1/8"      | 0.125    | 3.175   |
| 9/64"     | 0.140625 | 3.5719  |
| 5/32"     | 0.15625  | 3.9688  |
| 11/64"    | 0.171875 | 4.3656  |
| 3/16"     | 0.1875   | 4.7625  |
| 13/64"    | 0.203125 | 5.1594  |
| 7/32"     | 0.21875  | 5.5562  |
| 15/64"    | 0.234375 | 5.9531  |
| 1/4"      | 0.25     | 6.35    |
| 17/64"    | 0.265625 | 6.7469  |
| 9/32"     | 0.28125  | 7.1483  |
| 19/64"    | 0.296875 | 7.5406  |
| 5/16"     | 0.3125   | 7.9375  |
| 21/64"    | 0.328125 | 8.3344  |
| 11/32"    | 0.34375  | 8.7312  |
| 23/64"    | 0.359375 | 9.1281  |
| 3/8"      | 0.375    | 9.525   |
| 25/64"    | 0.390625 | 9.9219  |
| 13/32"    | 0.40625  | 10.3188 |
| 27/64"    | 0.421875 | 10.7156 |
| 7/16"     | 0.4375   | 11.1125 |
| 29/64"    | 0.453125 | 11.5094 |
| 15/32"    | 0.46875  | 11.9062 |
| 31/64"    | 0.484375 | 12.3031 |
| 1/2"      | 0.5      | 12.7    |

| Fractions | Decimals | mm      |
|-----------|----------|---------|
| 33/64"    | 0.515625 | 13.0969 |
| 17/32"    | 0.53125  | 13.4938 |
| 35/64"    | 0.546875 | 13.8906 |
| 9/16"     | 0.5625   | 14.2875 |
| 37/64"    | 0.578125 | 14.6844 |
| 19/32"    | 0.59375  | 15.0812 |
| 39/64"    | 0.609375 | 15.4781 |
| 5/8"      | 0.625    | 15.875  |
| 41/64"    | 0.640625 | 16.2719 |
| 21/32"    | 0.65625  | 16.6688 |
| 43/64"    | 0.671875 | 17.0656 |
| 11/16"    | 0.6875   | 17.4625 |
| 45/64"    | 0.703125 | 17.8594 |
| 23/32"    | 0.71875  | 18.2562 |
| 47/64"    | 0.734375 | 18.6531 |
| 3/4"      | 0.75     | 19.05   |
| 49/64"    | 0.765625 | 19.4469 |
| 25/32"    | 0.78125  | 19.8438 |
| 51/64"    | 0.796875 | 20.2406 |
| 13/16"    | 0.8125   | 20.6375 |
| 53/64"    | 0.828125 | 21.0344 |
| 27/32"    | 0.84375  | 21.4312 |
| 55/64"    | 0.859375 | 21.8281 |
| 7/8"      | 0.875    | 22.225  |
| 57/64"    | 0.890625 | 22.6219 |
| 29/32"    | 0.90625  | 23.0188 |
| 59/64"    | 0.921875 | 23.4156 |
| 15/16"    | 0.9375   | 23.8125 |
| 61/64"    | 0.953125 | 24.2094 |
| 31/32"    | 0.96875  | 24.6062 |
| 63/64"    | 0.984375 | 25.0031 |
| 1"        | 1.0      | 25.4    |

## Pulley or sheave diameter according to cable construction



| Construction | Sheave Diameter |         |
|--------------|-----------------|---------|
|              | Recommended     | Minimum |
| 6 x 19       | 45 x d          | 34 x d  |
| 6 x 36       | 35 x d          | 23 x d  |
| 19 x 7       | 51 x d          | 34 x d  |
| 7 x 7 GAC    | 72 x d          | 42 x d  |
| 7 x 19 GAC   | 35 x d          | 26 x d  |
| 7 x 7 SS     | 82 x d          | 65 x d  |
| 7 x 19 SS    | 40 x d          | 31 x d  |

d = wire rope diameter

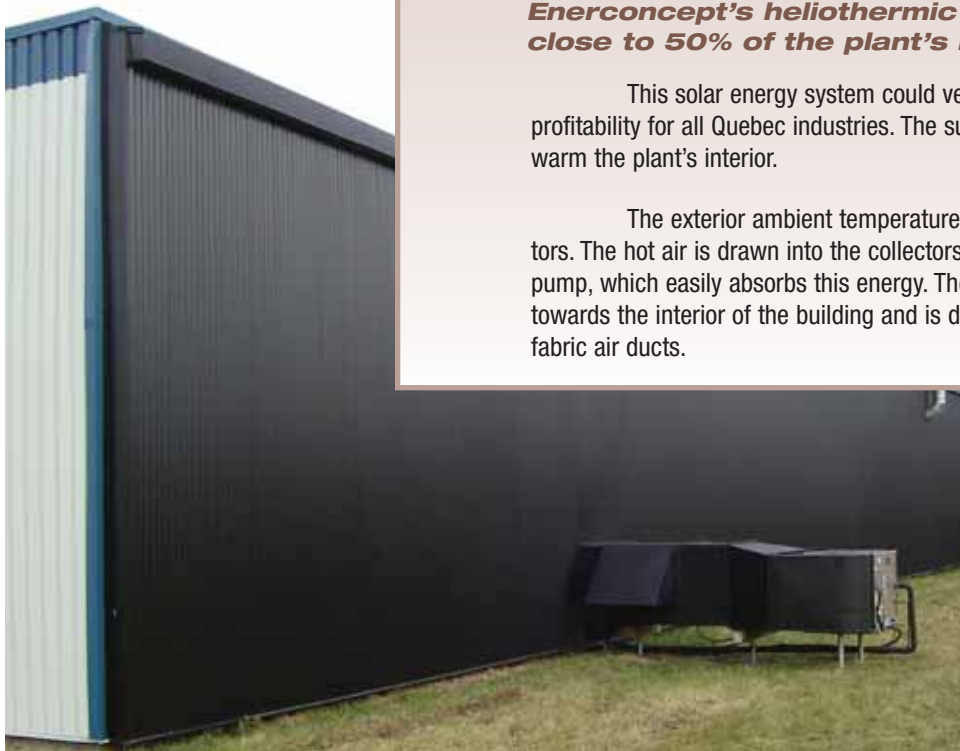


## **Ben-Mor is the first company in Quebec to adopt solar heating for its plant.**

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## **General Sales Conditions**

### **Guarantee**

All "Ben-Mor inc." products are unconditionally guaranteed against manufacturing defects. Any item found to be defective will be replaced or adjusted, provided "Ben-Mor inc." is notified promptly upon receipt of merchandise. "Ben-Mor inc." reserves the right to request that the defective item be returned for examination purposes. The purchaser will be responsible for labor charges incurred by the examination of the returned item(s). "Ben-Mor inc." liability regarding defects in any item shall be limited to its replacement or to the adjustment for an amount equal to the price paid for the item. Debit memos will not be accepted without prior written authorization by "Ben-Mor inc."

### **Claims for loss or damage in transit**

All products are carefully inspected and packaged to assure delivery in good condition. Product damage or loss occurring in transit is the responsibility of the carrier, and in the event of such loss, the purchaser must advise the carrier within 10 days after delivery. "Ben-Mor inc." will give all reasonable assistance in tracing shortages and filing claims.

### **Returned Merchandise**

Credit will not be issued for material returned without written authorization from "Ben-Mor inc." Return request must be mailed to the "Ben-Mor inc." office and must include an itemized list of materials with the dates and numbers of invoices. All returns must be done within thirty days of delivery of goods. Items are subject to 20% handling charge.

### **Prices**

All prices are subject to change without notice. Invoices will be based on the prices prevailing at date of shipment. Because of the unpredictable fluctuations of raw materials, "Ben-Mor inc." may be forced to add surcharges without notice, and due to rapid changes, these surcharges may result in immediate additional costs to our customers. When possible, "Ben-Mor inc." will advise of surcharges in advance.

### **Payment Terms**

Net 30 days. Service charge of 2% per month will apply against all outstanding balances over 30 days, or 24% annually.

### **Credit**

Open account terms will be extended to firms with satisfactory commercial credit rating. Firms without satisfactory commercial credit rating may qualify for open account terms, by listing on their order form the name of their bank and three active credit references. When we lack proper credit information, in order to avoid delay in servicing an order, we will ship "cash on delivery" payment basis (C.O.D.).

### **Specifications**

The dimensions, weights, strengths, lengths, and other specifications shown in the catalog are subject to variation within reasonable tolerances.

# Ben-Mor Team







[www.ben-mor.com](http://www.ben-mor.com)  
[info@ben-mor.com](mailto:info@ben-mor.com)

#### Head Office

1105, Lemire, St-Hyacinthe, Quebec, Canada, J2T 1L8  
☎ 1-800-481-0022 • 450-778-0022 — 📠 1-800-498-0022 • 450-778-0033

#### Western Distribution Center

7018, 30th Street S.E., Calgary, Alberta, Canada, T2C 1N9  
☎ 403-279-9631 — 📠 403-279-6907

#### Retail Products Distribution Center

1400, Nobel, Boucherville, Quebec, Canada, J4B 5H3



253 Monument Road, Hinsdale, New Hampshire, 03451, USA

