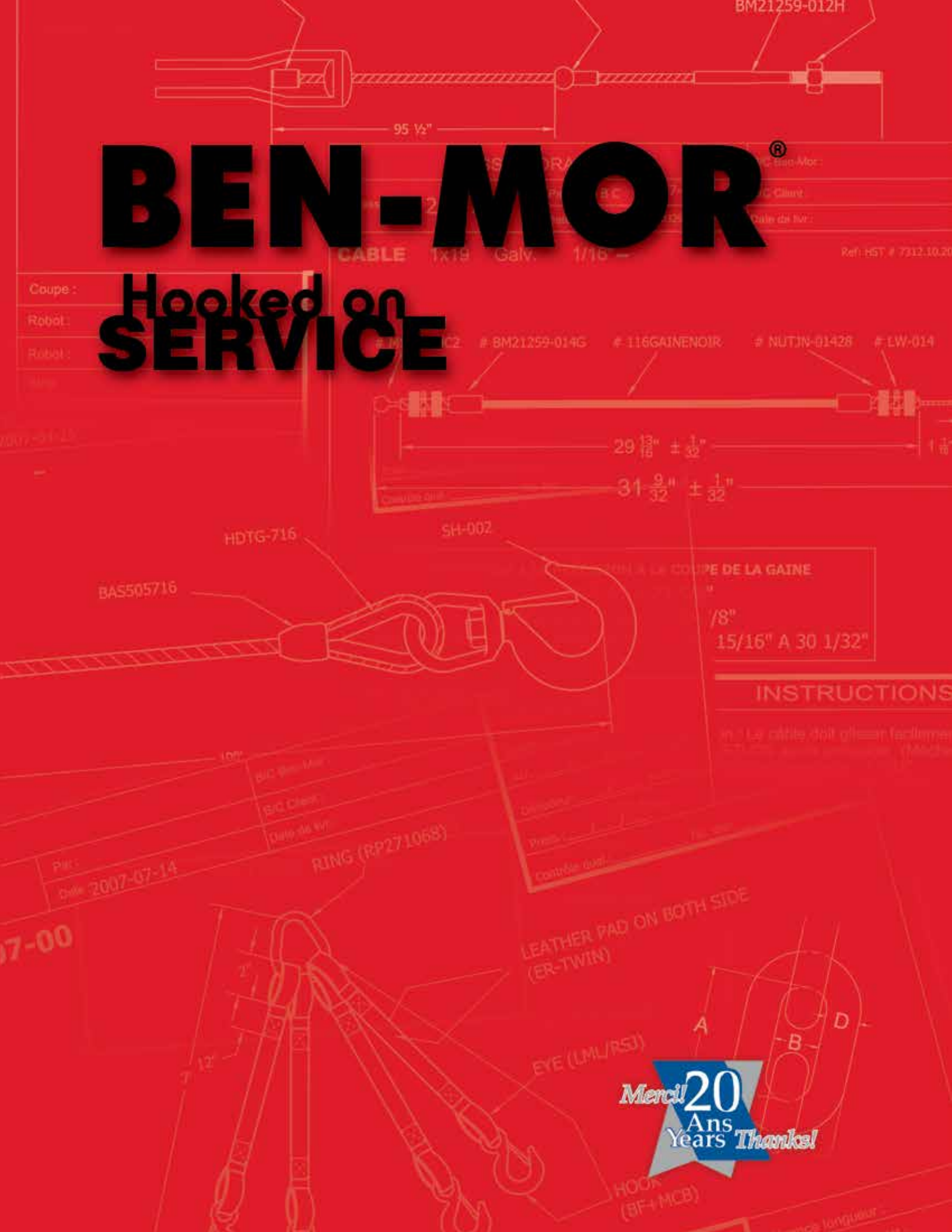
BEN-MOR®

Hooked on SERVICE



Merci! 20 Ans Years Thanks!

“ 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.

Dear valued customers,

After 21 years in business our passion for excellence continues to be as strong today as it was in our early days. It is and will be at the forefront of our commitment to all our customers. For this we are extremely proud.

We are always on the lookout for new products and services. As we constantly evolve to service you our customer, we are pleased to share our new industrial catalog which includes many new products and innovations. Our growth in our quality of products and services combined with our expertise allows us to offer personalized turnkey solutions for all your requirements.

Our numerous acquisitions in both Canada and the United States have contributed to developing expertise and a unique niche unmatched in the industry. Our most recent acquisition was Sling Tech, a major Canadian manufacturer of synthetic slings and round slings.

This new addition to the Ben-Mor family is a key component of our strategic plan to position Ben-Mor as the undisputed leader of all market segments we are involved in. We are now the largest manufacturer of synthetic slings in Canada.

We are proud to offer our team of professionals whose sole goal is to maintain our strong tradition of customer service. This is a key factor in our success as a company and our commitment to you as our valued customer.
We will succeed together.

We sincerely thank you for your loyalty and trust!

Benoît Frappier

Lyne-Mireille Leduc

Richard Plante

Éric Rompré

Left to right :
Richard Plante, V-P Sales & Marketing,
Éric Rompré, V-P Production,
Lyne-Mireille Leduc, V-P Finances and
Benoît Frappier, President and CEO of Ben-Mor

The Cable Assemblies Specialists

Precision-Machined Components

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

Assembly

CERTIFIED ISO 9001 AS 9100

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

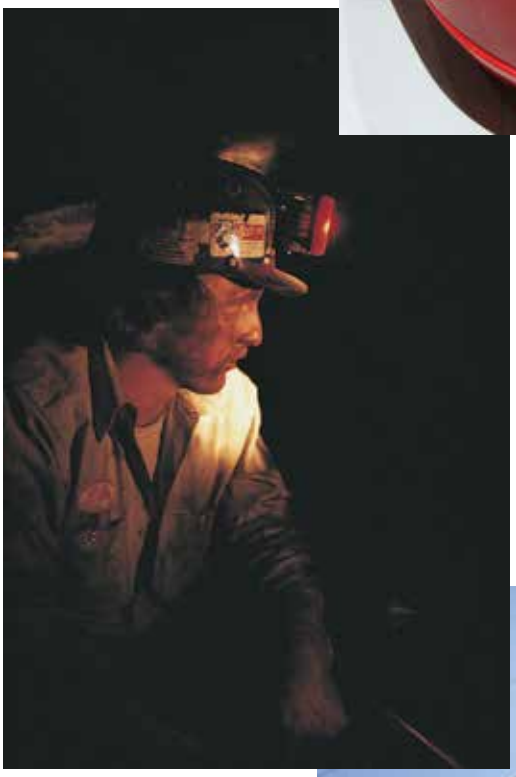
Zinc Die Cast Technology

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

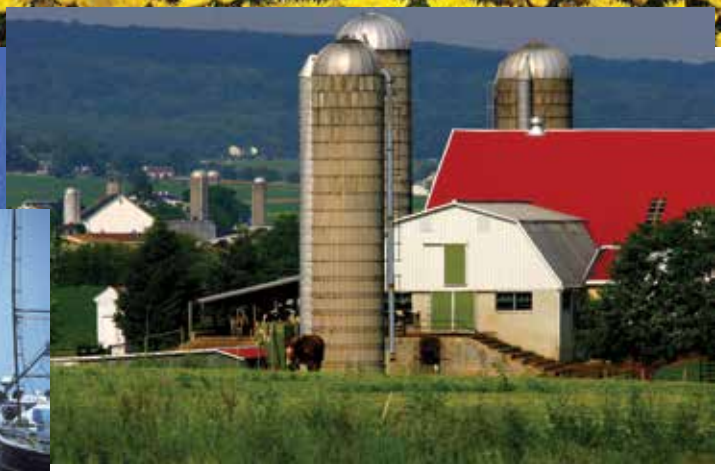
The benefits of zinc die cast termination to consider when designing your cable assembly are:

- **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 !



Continental Cable LLC

AS 9100
ISO 9001
MIL-DTL-83420

North American Made Quality

New Hampshire

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.

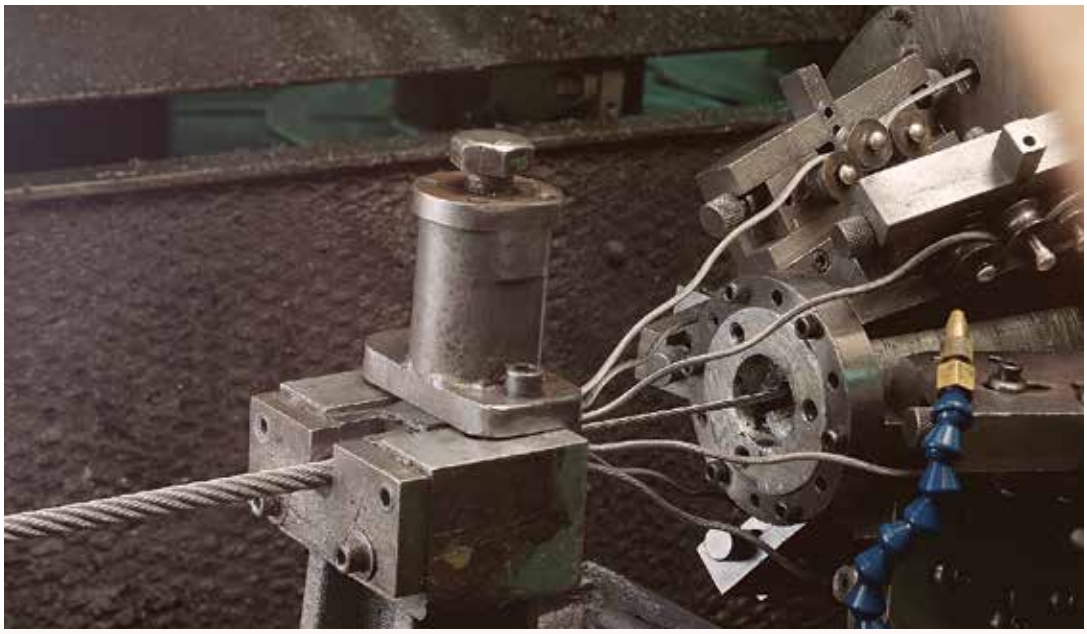
Type 1 - Comp A - Galvanized

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

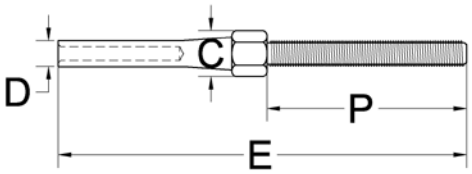
Code	Construction	Diameter in.	Breaking Strength lbs.	Weight per 100 feet lbs.
SML047N-MFGS	7 x 7	3/64	270	0.42
SML063N-MFGS	7 x 7	1/16	480	0.75
SML063P-MFGS	7 x 19	1/16	480	0.75
SML094N-MFGS	7 x 7	3/32	920	1.6
SML094P-MFGS	7 x 19	3/32	920	1.6
SML125P-MFGS	7 x 19	1/8	1,760	2.9
SML156P-MFGS	7 x 19	5/32	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)

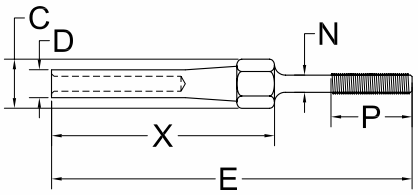


RH or LH Thread Code	For Cable Diameter	Weight ea. lbs.	Thd. D NF-3A or UNF-3A	Dimensions in.					
				C	D Before swage	D After swage	E +.015 -.000 Before swage	E After swage	P
MS21259-2	1/16	0.0100	6-40	.188	.160	.138	2.473	2.65	1.045
MS21259-3	3/32	0.0225	10-32	.250	.218	.190	2.879	2.996	1.204
MS21259-4	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)

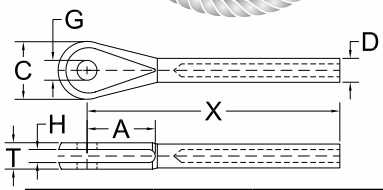


RH or LH Thread Code		For Cable Diameter in.	Weight ea. lbs.	Thd. B NF-3A or UNF-3A	Dimensions in.							
					C	D Before swage	D After swage	E ±.063 Before swage	E After swage	N +.006 -.000	P ±.047	X After swage
MS21260-	L-2 S-2	1/16	0.010 0.011	6-40	.188	.160	.138	3.491 2.616	3.669 2.794	.092	.375	1.319
MS21260-	L-3 S-3	3/32	0.020 0.024	10-32	.250	.218	.190	3.738 2.863	3.855 2.980	.133	.500	1.581
MS21260-	L-4 S-4	1/8	0.024 0.040	1/4-28	.313	.250	.219	4.020 3.145	4.276 3.401	.195	.563	1.863
MS21260-	L-5 S-5	5/32	0.044 0.050	1/4-28	.313	.297	.250	4.314 3.439	4.659 3.784	.195	.625	2.157
MS21260-	L-6 S-6	3/16	0.070 0.086	5/16-24	.375	.359	.313	4.612 3.737	4.780 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

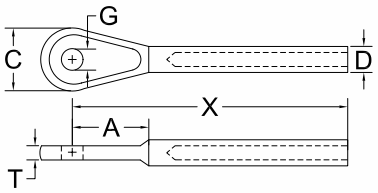
(Stainless Steel)



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

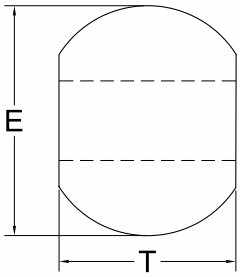
Aircraft Eye Fitting MS20668

(Stainless Steel)



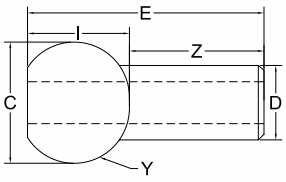
Code	For Cable Diameter in.	Weight ea. lbs.	Dimensions in.									
			A ±.020	C	D Before Swage	D After swage	G Dia.	G Tol.	T Dia.	T Tol.	X Before swage	X After swage
MS20668-2	1/16	0.01	.523	.359	.160	.138	.190	+.002 -.000	.088	+.000 -.005	1.631	1.809
MS20668-3	3/32	0.02	.707	.438	.218	.190	.190	+.002 -.000	.103	+.000 -.005	2.049	2.160
MS20668-4	1/8	0.03	.738	.500	.250	.219	.190	+.002 -.000	.190	+.000 -.005	2.337	2.593
MS20668-5	5/32	0.05	.831	.640	.297	.250	.250	+.002 -.000	.197	+.000 -.005	2.684	3.029
MS20668-6	3/16	0.09	.903	.781	.359	.313	.313	+.002 -.000	.255	+.000 -.005	3.019	3.187
MS20668-7	7/32	0.13	1.007	.813	.427	.375	.313	+.002 -.000	.291	+.000 -.005	3.382	3.678
MS20668-8	1/4	0.20	1.133	.968	.494	.438	.375	+.002 -.000	.307	+.000 -.005	3.763	4.062
MS20668-9	9/32	0.25	1.257	1.109	.563	.500	.438	+.002 -.000	.322	+.000 -.005	4.153	4.512
MS20668-10	5/16	0.40	1.373	1.218	.635	.563	.438	+.002 -.000	.343	+.000 -.005	4.546	4.969
MS20668-12	3/8	0.57	1.688	1.500	.703	.625	.500	+.005 -.000	.375	+.000 -.015	5.562	5.968
MS20668-14	7/16	0.79	1.968	1.750	.781	.688	.562	+.005 -.000	.375	+.000 -.015	6.398	6.867
MS20668-16	1/2	1.05	2.115	1.875	.844	.750	.625	+.005 -.000	.468	+.000 -.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	1/32	88	0.002	.211	.208	.188	.141	.137
BA3-1.5	3/64	215	0.0019	.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

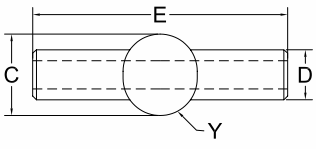
Shank Ball MS20664 (Stainless Steel)



Code 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)

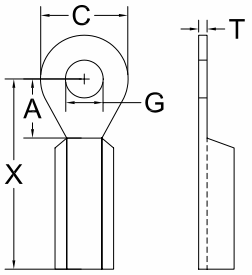


Code Cor. Res. Steel	Nom. Cable Diameter in.	Weight / ea. lbs.	Dimensions in.						
			C Before swage	C After swage	D Before swage	D After swage	E Before swage	E After swage	Y Max. Rad.
MS20663-C2	1/16	.0016	.207	.190	.127	.112	.362	.390	.014
MS20663-C3	3/32	.0032	.277	.253	.163	.143	.525	.578	.019
MS20663-C4	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.

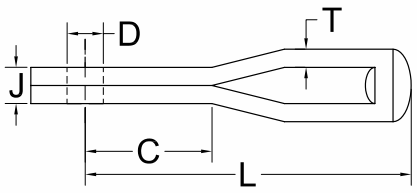
**2403-04, 2401-04, 2413-04, & 2411-04 holds 1600 lbs. max.

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.

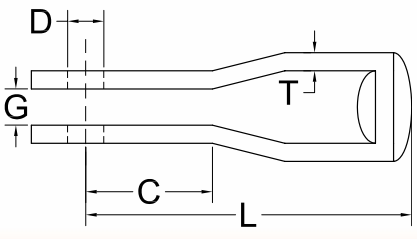
Stainless Strap Eye with markings

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

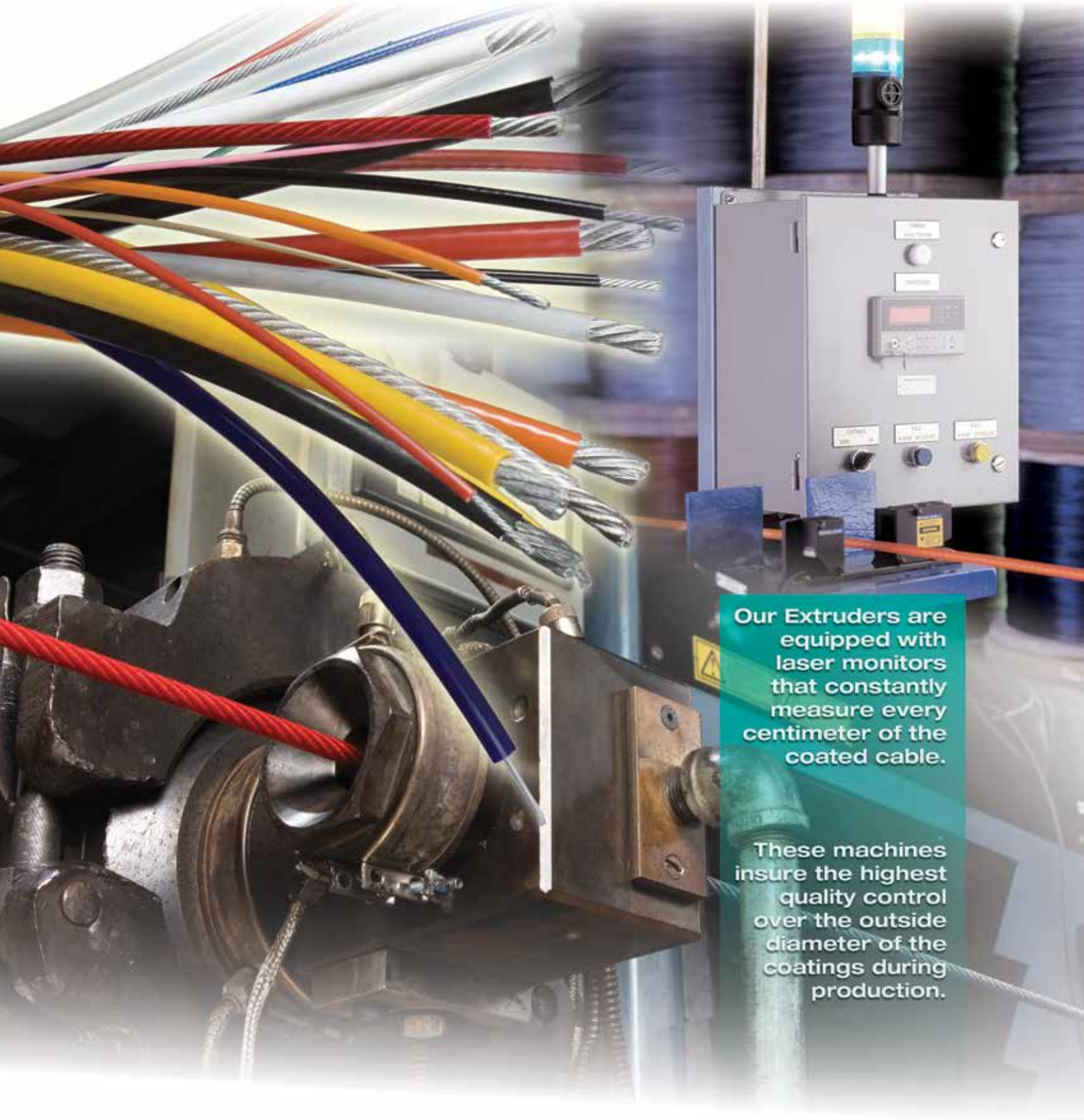


Stainless Strap Fork with markings

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 / Nominal diameter in	Outside / Coating diameter in.	Weight approx. per 100 ft. 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)

TOLERANCES

Standard outside diameter tolerances for plastic coated cables.

O.D. of Jacket			Standard Tolerance
Up	to	.125 (1/8")	+/-0.007"
.126	to	.250 (1/4")	+/-0.009"
.251	to	.375 (3/8")	+/-0.010"
.376	to	.500 (1/2")	+/-0.015"
.501	to	.750 (3/4")	+/-0.020"
.751	to	1.000 (1")	+/-0.030"
1.001	to	1.250 (1 1/4")	+/-0.040"
1.251	to	1.500 (1 1/2")	+/-0.050"

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.

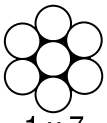
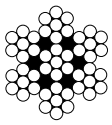
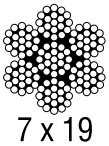
1. The cable must be dry-oil free.
2. No protruding or broken wires.
3. No obvious defects (such as high or uneven strands).
4. Cable must be evenly wound (thread lay) on the reels.

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.

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

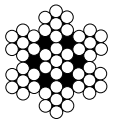
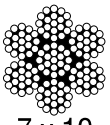
Aircraft Cable and Preformed Strand

Galvanized

Construction	Code	Diameter in.	Minimum Breaking Strength lbs.	Weight per 100 ft. lbs.
Soft guy wire	11617SOFT	1/16	100	0.85
	56417SOFT	5/64	150	1.4
	33217SOFT	3/32	250	2.0
	01817SOFT	1/8	520	3.3
	31617SOFT	3/16	1150	3.8
 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
 1 x 19	364119G	3/64	375	0.55
	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
 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
	03877G	3/8	13,300	23.6
 7 x 19	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

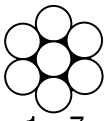
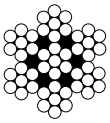
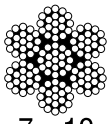
Miniature cable available on request (smaller than 1/32")

Black Oxide

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

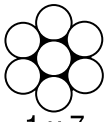
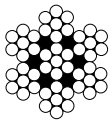
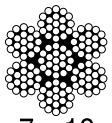
Black oxyde : Gives galvanized cable a black matte finish

Stainless Steel 304

Construction	Code	Diameter in.	Minimum Breaking strength lbs.	Weight per 100 ft. lbs.
 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
	01217S4	1/2	33,700	52.0
 1 x 19	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
	038119S4	3/8	17,500	30.1
	012119S4	1/2	30,000	52.0
 7 x 7	13277S4	1/32	120	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
	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
 7 x 19	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

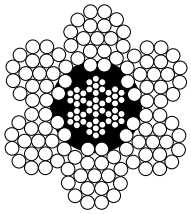
Type 304 stainless steel is the standard alloy for use in wire rope and cable. It has about the same strength as galvanized rope or cable but is much more corrosion resistant. It can be used in most industrial atmospheres and has acceptable corrosion resistance when used in marine and salt water.

Stainless Steel 316

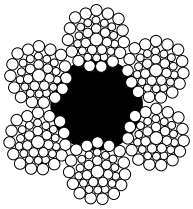
Construction	Code	Diameter in.	Minimum Breaking strength lbs.	Weight per 100 ft. lbs.
 1 x 7	01417S6	1/4	7,650	13.7
	03817S6	3/8	16,200	24.3
	01217S6	1/2	30,200	52.0
 1 x 19	116119S6	1/16	467	0.85
	018119S6	1/8	1,780	3.3
	532119S6	5/32	2,800	5.5
	316119S6	3/16	4,000	7.7
	014119S6	1/4	6,900	13.5
	516119S6	5/16	10,600	21.0
	038119S6	3/8	14,800	30.1
	012119S6	1/2	27,000	52.0
 7 x 7	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
	51677S6	5/16	7,600	16.7
 7 x 19	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 480ºC (900ºF).

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



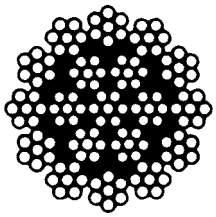
6 x 19



6 x 37

Diameter in.	Weight approx./ 100 ft. lbs.	Minimum Breaking Strength — lbs.							
		IPS				EIPS			
		Steel core		Fiber core		Steel core		Fiber core	
		Galv.	Bright	Galv.	Bright	Galv.	Bright	Galv.	Bright
1/4	12	5,300	5,880	4,940	5,480	6,120	6,800	5,680	6.300
5/16	18	8,240	9,160	7,660	8,520	9,480	10,540	8,810	9,800
3/8	26	11,800	13,120	10,980	12,200	13,600	15,100	12,600	14,000
7/16	35	16,000	17,780	14,880	16,540	18,360	20,400	17,100	19,000
1/2	46	20,700	23,000	19,260	21,400	24,000	26,600	22,000	24,600
9/16	59	26,100	29,000	24,300	27,000	30,200	33,600	28,000	31,100
5/8	72	32,200	35,800	30,000	33,400	37,000	41,200	34,500	38,400
3/4	104	46,000	51,200	42,800	47,600	53,000	58,800	49,200	54,700
7/8	142	62,200	69,200	58,000	64,400	71,600	79,600	66,700	74,100
1	185	80,800	89,800	75,200	83,600	93,000	103,400	86,500	96,100
1 1/8	234	101,800	113,000	94,600	105,200	117,000	130,000	108,800	121,000
1 1/4	289	125,000	138,800	116,200	129,200	143,800	159,800	133,600	148,600
1 3/8	350	150,400	167,000	139,800	155,400	172,800	192,000	160,800	178,700
1 1/2	416	178,000	197,800	165,600	184,000	206,000	228,000	190,400	211,600
1 3/4	567	240,000	266,000	224,000	248,000	276,000	306,000	N/A	N/A
2	739	310,000	344,000	288,000	320,000	356,000	396,000	N/A	N/A
2 1/4	936	387,000	430,000	360,000	400,000	444,000	494,000	N/A	N/A
2 1/2	1160	471,000	524,000	439,000	488,000	543,000	604,000	N/A	N/A

Cable larger than 2" available on request.



19 x 7

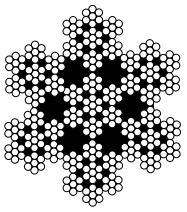
19 X 7 Non-rotating

Code	Diameter in.	Weight per 100 ft. lbs.	Minimum Breaking Strength 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

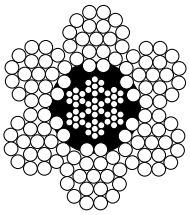


7 x 7 x 7

6 x 19/26 Stainless Steel

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

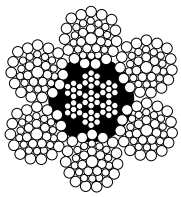


6 x 19

6 x 36/37 Stainless Steel

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

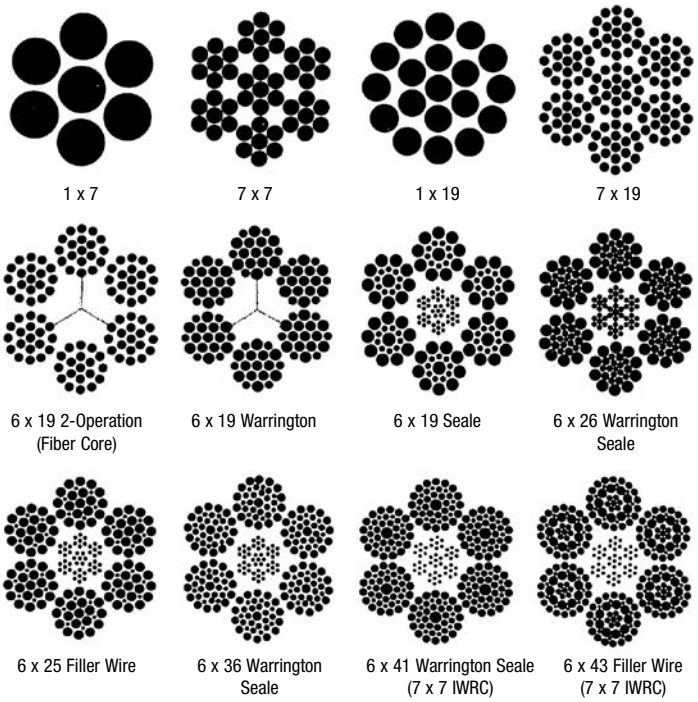
Code	Outside diameter in.	Inside diameter in.	Minimum Breaking Strength lbs.	Weight per 100 ft. lbs.
0181164119A	11/64	1/8 galvanized	4,000	8

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.

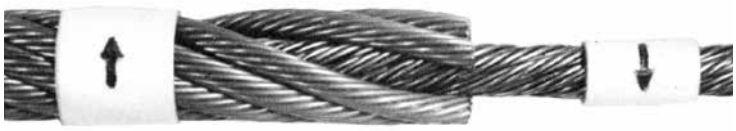
Right Regular Lay – Strands are laid to the right and wires appear in line with the rope.

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

Copper Duplex Sleeves or Copper Zinc Plated Duplex Sleeves

Code Copper	Code Copper Zinc Plated	For cable diameter in.	Weight / each approx. 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

Aluminum Duplex Sleeves
(Hour glass shape)

Code	For cable diameter in.	Weight / each approx. 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 Stop Sleeves, *chamfered*

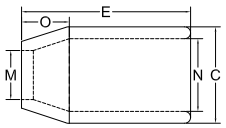
Easier Insertion

Code	For cable diameter in.	Weight / each approx. 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

Aluminum Oval Sleeves

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

Other sizes available on request.



Copper Stop Sleeves

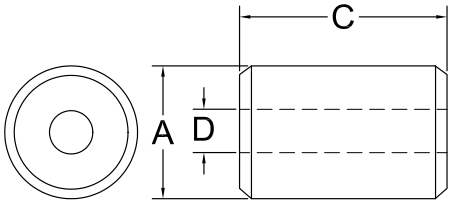
Code	For cable diameter in.	Weight / each approx. lbs.
CSS-132	1/32	.001
CSS-364	3/64	.002
CSS-116	1/16	.002
CSS-332	3/32	.008
CSS-018	1/8	.007
CSS-532	5/32	.012
CSS-316	3/16	.105
CSS-732	7/32	.186
CSS-014	1/4	.061
CSS-516	5/16	.052

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



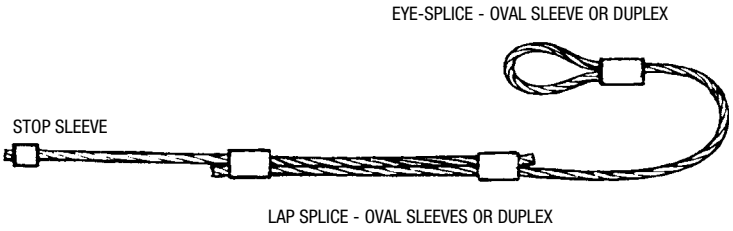
Properly swaged aluminum and copper oval sleeves and duplex will develop the published nominal break strength of the cable on 3x7, 7x7, and 7x19 constructions. Sleeves used on other constructions will not hold to the nominal published break strength.

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.

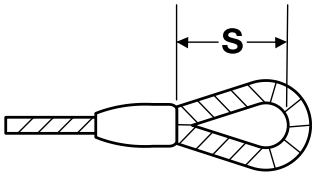
To determine the actual holding strength of any fitting a pull test must be made.



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

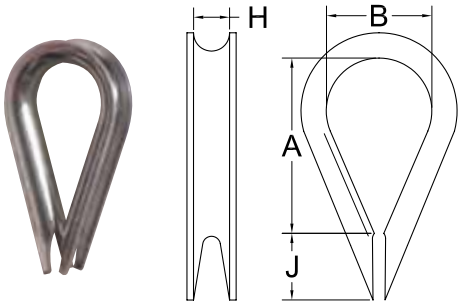
Ben-Mor Cable Assemblies : Standard Eye Length

Dimensions in.		
Cable Diameter	S After Swage	Tolerances (+/-)
3/64	1/2	1/32
1/16	5/8	1/32
5/64	5/8	1/32
3/32	3/4	1/32
1/8	1 1/4	1/16
5/32	1 1/2	3/32
3/16	2	1/8
7/32	3	5/32
1/4	4	3/16
5/16	5	1/4
3/8	6	5/16
7/16	7	3/8
1/2	8	7/16
9/16	9	7/16
5/8	10	1/2
3/4	12	5/8
7/8	14	3/4
1	16	3/4



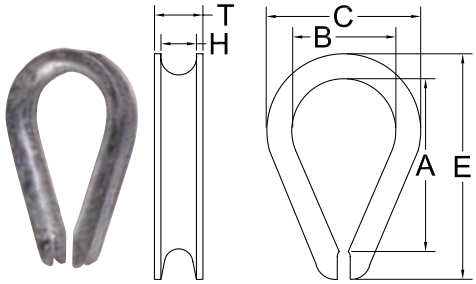
Other dimensions available upon request.

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

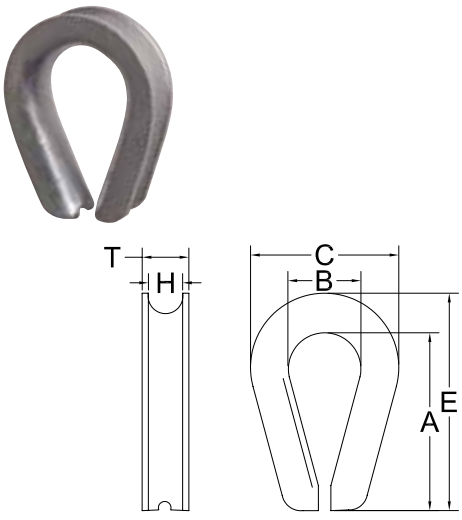
Standard Thimbles (galvanized)



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

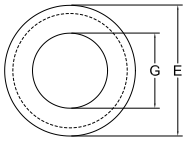


Code	For cable diameter in.	Weight / ea. approx. lbs.	Dimensions in.					
			A	B	C	E	H	T
HDTG-014	1/4	0.080	1.62	.88	1.50	2.19	.28	.41
HDTG-516	5/16	0.140	1.88	1.06	1.81	2.50	.34	.50
HDTG-038	3/8	0.260	2.12	1.12	2.12	2.88	.41	.63
HDTG-716	7/16	0.300	2.38	1.25	2.38	3.25	.47	.72
HDTG-012	1/2	0.440	2.75	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.

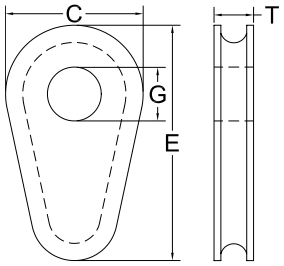
Round Eye Thimbles (zinc)

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

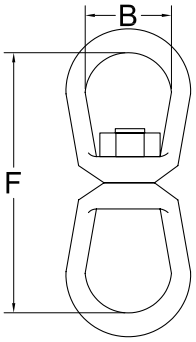
Code	For cable diameter in.	Weight / ea. lbs.	Dimensions in.			
			C	E	G	T
S412-012	1/2	2.25	2 1/8	2 13/16	1	7/8
S412-058	5/8	6.00	3 3/8	4 11/16	1 3/16	1 1/8
S412-034	3/4	5.12	3 3/8	4 11/16	1 3/8	1 3/8
S412-078	7/8	10.00	4 1/2	6 1/16	1 5/8	1 5/8
S412-001	1	10.00	4 1/2	6 1/16	2	1 13/16
S412-118	1 1/8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

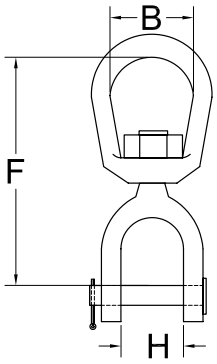
Federal Specification : RR-C-271D



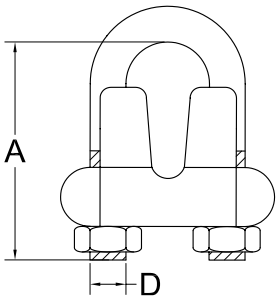
Jaw & Eye Swivels (forged steel galvanized)

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.

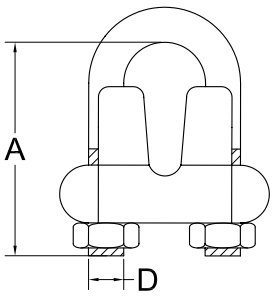
INSTRUCTIONS FOR USE OF WIRE ROPE CLIPS :

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.

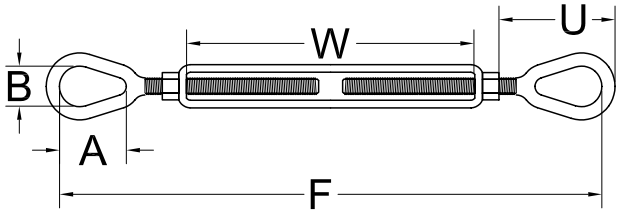
Wire Rope Clips Brown Pin® (drop-forged, galvanized)

Brown Pin®



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	360	8	54

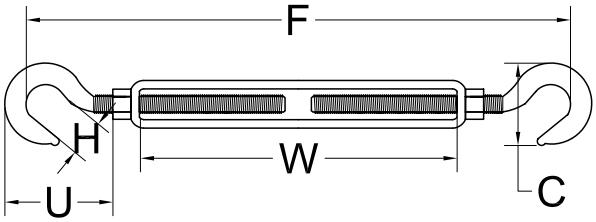
Federal Specification : FF-C-450 Other dimensions available upon request.



Galvanized Turnbuckles (EYE & EYE), drop-forged

Code	Thread Dia. x Take-Up in.	Working Load Limit lbs.	Weight Each lbs.	Dimensions in.					
				A	B	F Open	F Closed	U 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									

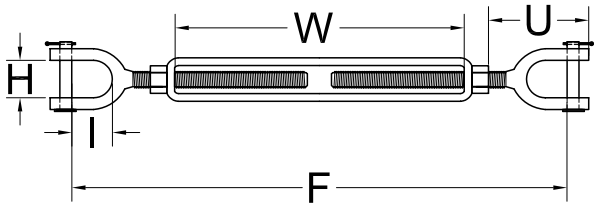
Federal Specification : FF-T-791B Other dimensions available upon request.
UNC Threading.
Jam Nut : included in sizes 1/4" to 1/2"



Galvanized Turnbuckles (HOOK & HOOK), drop-forged

Code	Thread Dia. x Take-Up in.	Working Load Limit lbs.	Weight Each lbs.	Dimensions in.					
				C	F Open	F Closed	H	U 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									

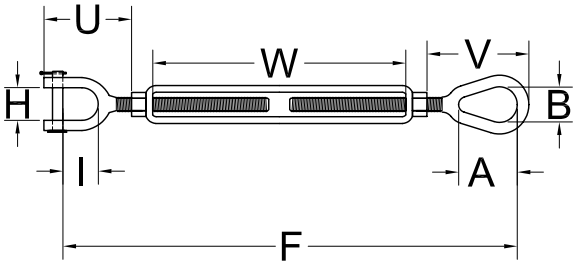
Federal Specification : FF-T-791B Other dimensions available upon request.
UNC Threading.
Jam Nut : included in sizes 1/4" to 1/2"



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

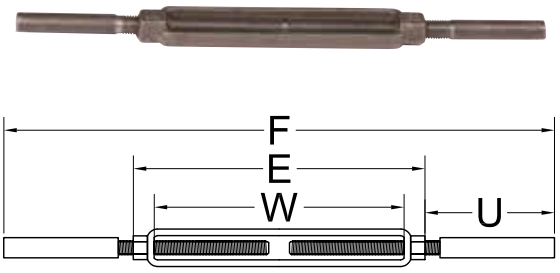
Forged jaw ends are fitted with bolts and nuts for 1/4" through 5/8", and pin cotters on 3/4" through 2 3/4" sizes.

UNC Threading.

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

Stub end Turnbuckles, self colored, drop forged

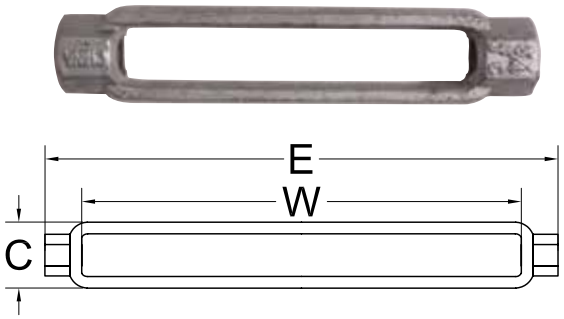
Code	Size Diameter x Take-Up in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.			
				E	F	U	W
TSE-03806	3/8 x 6	1,200	0.75	7.13	16.0	4.44	6.0
TSE-01206	1/2 x 6	2,200	1.25	7.50	16.0	4.25	6.0
TSE-01209	1/2 x 9	2,200	1.70	10.50	19.0	4.25	9.0
TSE-05806	5/8 x 6	3,500	2.11	7.88	16.0	4.06	6.0
TSE-03406	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 Diameter x Take-Up in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions 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						



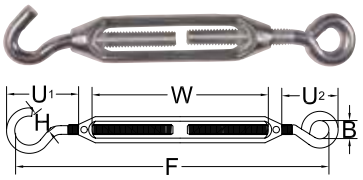
Federal Specification : FF-T-791B Other diameters and/or color available upon request.

Zinc Die Cast Ben-Mor Turnbuckles

Code H & E	Thread Diameter x Take-Up in.	Working Load Limit lbs.	Weight /ea. lbs.	B	F Closed	H	U1 Closed	U2 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

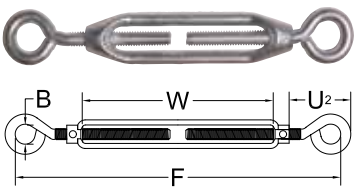
EYE & HOOK



Code E & E	Thread Diameter x Take-Up in.	Working Load Limit lbs.	Weight / ea. lbs.	B	F Closed	U2 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

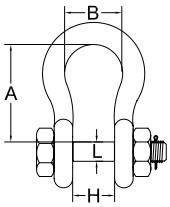
UNC Threading

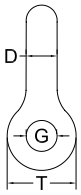
EYE & EYE



Bolt Type Anchor Shackles Brown Pin®, rated (drop forged, galvanized)

Brown Pin®



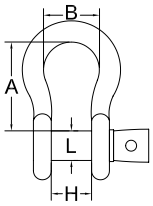


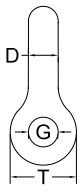
Code	Size in.	Working Load Limit TON	Weight / ea. lbs.	Dimensions in.								
				A		B Min	D Min	G Max	H		L Min	T Max
				Nominal	±				Nominal	±		
SPAS2130BP012	1/2	2	0.79	1 7/8	1/8	1 3/16	1/2	23/32	13/16	1/16	5/8	1 3/8
SPAS2130BP058	5/8	3 1/4	1.68	2 13/32	1/8	1 1/2	5/8	27/32	1 1/16	1/16	3/4	1 7/8
SPAS2130BP034	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												

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

Screw Pin Anchor Shackles Brown Pin®, rated (drop forged, galvanized)

Brown Pin®





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												

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

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

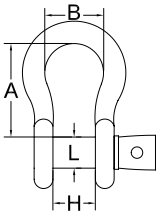
Code	For cable diameter in.	Pulley Diameter in.	Working Load Limit TON	Weight ea. lbs.
K4190-002	3/8	3	2	2
K4190-004	1/2	4 1/2	4	10
K4190-008A	3/4	6	8	31
K4190-008B	3/4	8	8	36
K4190-008C	3/4	10	8	53
K4190-008D	3/4	14	8	81
K4190-015	7/8	8	15	64
K4190-020	1 1/8	8	20	117
Safety Factor 4:1				

Toggle Block (Tail Board)

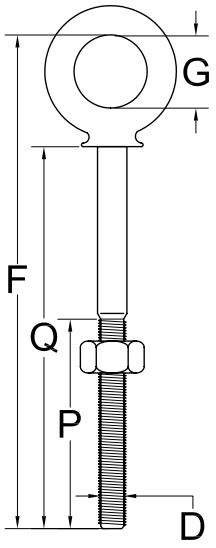
Code	For cable diameter in.	Pulley Diameter in.	Working Load Limit TON	Weight ea. lbs.
K4040-002	3/8	3	2	2
K4040-004	1/2	4 1/2	4	7.5
K4040-008A	3/4	6	8	15
K4040-008B	3/4	8	8	25
K4040-015	7/8	8	15	35
K4040-020	1 1/8	8	20	70
Safety Factor 4:1				

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	11/64
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										



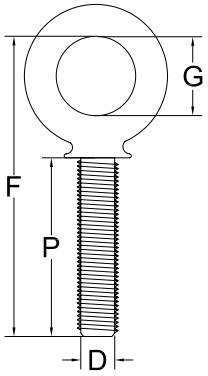
Shoulder Nut Eye Bolts (galvanized, drop-forged)



N.B. : UNC Thread

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	5	1	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 1/4	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							

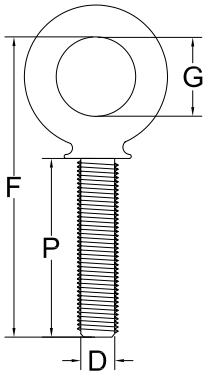
Shoulder Type Machinery Eye Bolts (self-colored, drop-forged)



N.B. : UNC Thread

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						

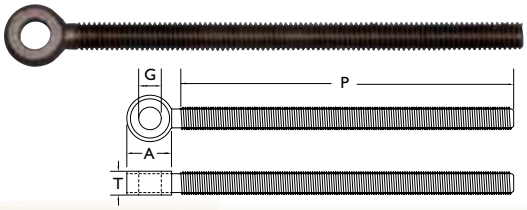
Shoulder Type Machinery Eye Bolts (zinc plated drop-forged)



N.B. : UNC Thread

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						

Rod End Eyebolts (self-colored, drop-forged)

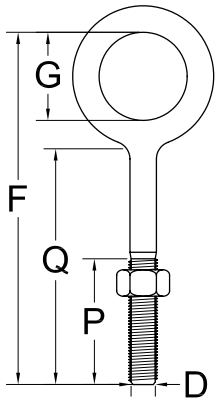


Code	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.				
			Thread	A	G	P	T
REDFSC-038006FTHD	1,200	0,35	3/8 - 16	0.766	0.375	6	0.400
REDFSC-012006FTHD	2,200	0,35	1/2 - 13	1.000	0.500	6	0.500
REDFSC-058006FTHD	3,500	0,45	5/8 - 11	1.260	0.500	6	0.500
REDFSC-034006FTHD	5,200	0,55	3/4 - 10	1.500	0.750	6	0.736
Safety Factor 5:1							

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							

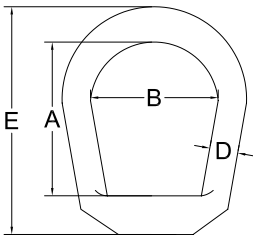
N.B. : UNC Thread

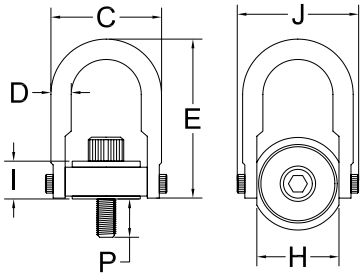


Eye Nuts (galvanized, drop-forged)

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

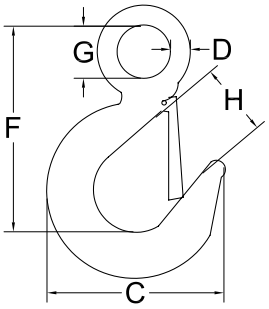
Code	Min. Load lbs.	Thread	Dimensions (in.)							Torque ft./lbs.	Poids lbs.
			C	D	E	H	I	J	P		
SHR-516932	800	5/16-18	1 5/8	3/8	2 5/8	1	45/64	1 27/32	9/32	7	0.3
SHR-5161732	800	5/16-18	1 5/8	3/8	2 5/8	1	45/64	1 27/32	17/32	7	0.3
SHR-0381732	1,000	3/8-16	1 5/8	3/8	2 5/8	1	45/64	1 27/32	17/32	12	0.3
SHR-0121116	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	2-4	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 kg	Thread	Dimensions (mm)							Torque kg-m	Poids 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)

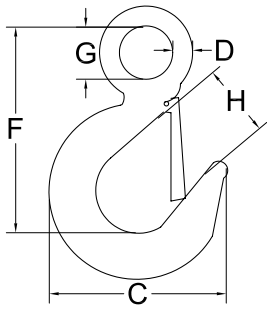
Code	Working Load Limit TON	Weight / ea. lbs.	Dimensions in.				
			C	D	F	G	H
EH-034	3/4	0.54	2.54	.33	2.80	.63	.81
EH-001	1	0.61	2.83	.36	3.34	.75	.89
EH-112	1 1/2	0.89	3.11	.42	3.81	.91	.91
EH-002	2	1.44	3.53	.55	4.14	1.13	1.00
EH-003	3	2.07	3.97	.58	4.69	1.25	1.09
EH-412	4 1/2	4.30	4.81	.72	5.77	1.56	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

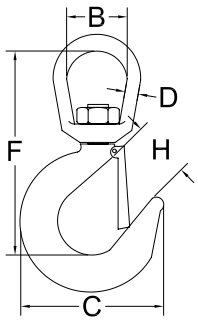
Eye Hooks with latch* (carbon, zinc plated)

Code	Working Load Limit TON	Weight / ea. lbs.	Dimensions 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							



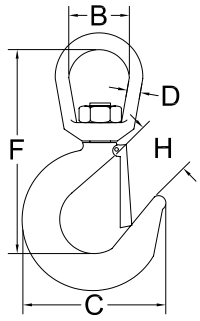
Swivel Hooks with latch* (alloy, zinc plated)

Code	Working Load Limit TON	Weight / ea. lbs.	Dimensions 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							



Swivel Hooks with latch* (carbon, zinc plated)

Code	Working Load Limit TON	Weight / ea. lbs.	Dimensions 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							

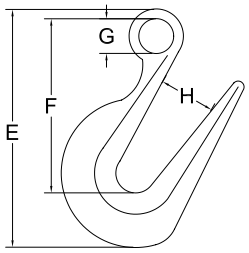


Safety Latch Kits (stainless steel)

Code	For hooks with capacity Carbon & alloy TON	Weight / ea. 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

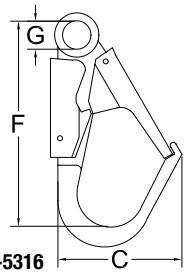
Code	For hooks with capacity Carbon & alloy TON	Weight / ea. lbs.
SS4055-003	3 & 4 1/2	0.06
SS4055-005	5 & 7	0.11
SS4055-712	7 1/2 & 11	0.17
SS4055-010	10 & 15	0.17

Sorting Hooks (alloy)

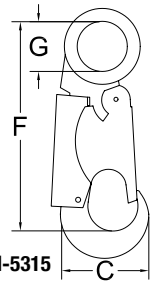


Code	Working Load Limit at bottom TON	Working Load Limit at tip of hook TON	Style	Weight / ea. lbs.	Dimensions in.			
					E	F	G	H
A378-002	7 1/2	2	No handle	6.42	9.69	7.375	1.38	2.81
Safety Factor 4:1								

Eye Slip Tow and Lanyard Hooks (zinc plated steel)

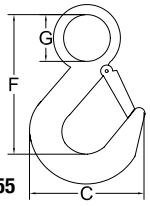


BM-5316

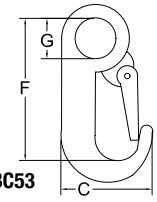


BM-5315

Code	Inside Eye Dia. 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							

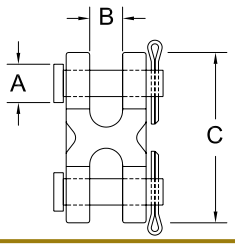


BM-5555



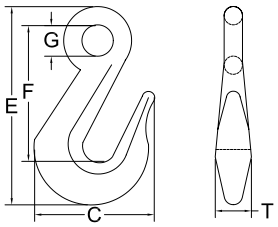
BM-BC53

Double Clevis Chain Midlink (Gr. 70 gold chromate)



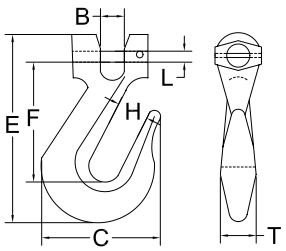
Code	For Chain Dia. in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.			QTY CTN
				A	B	C	
70991	5/16	4,700	0.32	3/8	7/16	2.50	6
70992	3/8	6,600	0.44	7/16	1/2	2.81	6
70993	1/2	11,250	1.00	9/16	5/8	3.62	6
Safety Factor 4:1							

Eye Grab Hooks (Gr. 40 zinc plated)



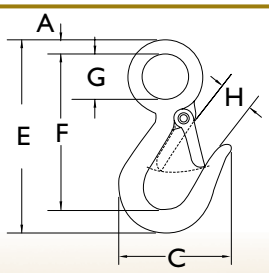
Code	For Chain Dia. in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.				
				C	E	F	G	T
EGH40-014	1/4	2,600	0.28	1.81	3.05	1.88	.53	.47
EGH40-516	5/16	3,900	0.45	2.12	3.59	2.28	.62	.59
EGH40-038	3/8	5,400	0.79	2.53	4.28	2.69	.75	.72
Safety Factor 4:1								

Clevis Grab Hooks (Gr. 40, zinc plated)



Code	For Chain Dia. 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									

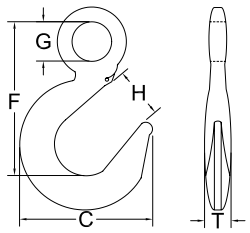
Snap Hooks



Code	For Chain Dia. in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.					
				A	C	E	F	G	H
G3315-716	7/16	750	0.23	.25	2.25	3.94	3.25	.75	.75
G3315-916	9/16	1,000	0.48	.34	2.69	4.75	3.84	1.12	.81
Safety Factor 4:1									

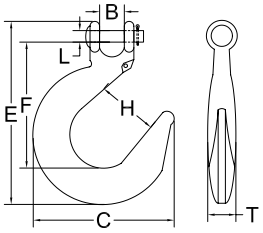
Eye Slip Hooks (Gr. 40 zinc plated)

Code	For Chain Dia. 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								



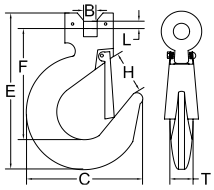
Clevis Slip Hooks (Gr. 40, zinc plated)

Code	For Chain Dia. 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	6,900	2.75	.57	4.81	6.53	4.00	1.69	.63	.91
Safety Factor 4:1										



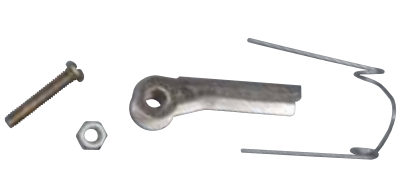
Clevis Slip Hooks (Gr. 70, gold chromate)

Code without latch	Code with latch	For Chain Dia. 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											



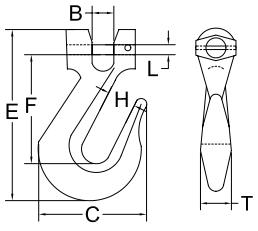
Safety Latch kit (Gr. 70, for clevis slip hook)

Code	For Chain Diameter in.	Weight / ea. lbs.
LATCHGR701/4BM	1/4	0.01
LATCHGR705/16BM	5/16	0.02
LATCHGR703/8BM	3/8	0.02
LATCHGR707/16BM	7/16	0.39
LATCHGR701/2BM	1/2	0.39



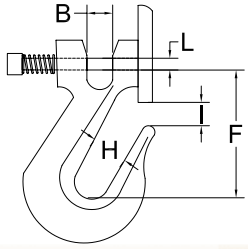
Clevis Grab Hooks (Gr. 70, gold chromate)

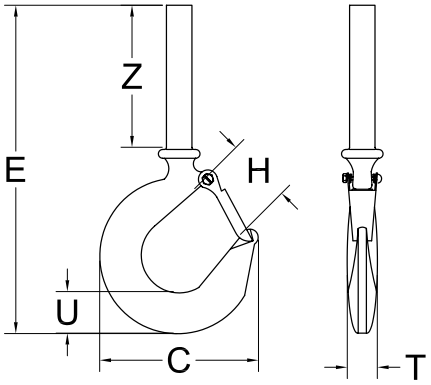
Code	For Chain Diameter in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.							
				B	C	E	F	H	J	L	T
CGH70-014	1/4	3,150	0.38	.32	1.81	3.05	1.64	.34	.72	.31	.47
CGH70-516	5/16	4,700	0.70	.43	2.12	3.66	2.02	.44	.91	.38	.59
CGH70-038	3/8	6,600	1.04	.48	2.53	4.42	2.41	.50	1.00	.44	.72
CGH70-012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

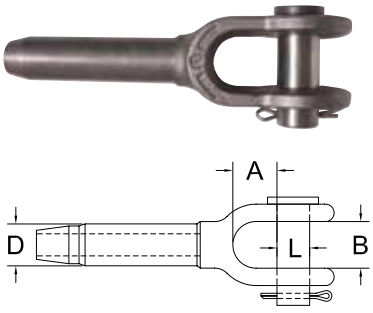
Code	For Chain Diameter in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.				
				B	F	H	I	L
CGH70L-014	1/4	3,150	0.64	0.354	1.970	0.394	0.394	0.378
CGH70L-516	5/16	4,700	0.96	0.394	2.260	0.433	0.492	0.433
CGH70L-038	3/8	6,600	1.34	0.472	2.630	0.500	0.413	0.472
CGH70L-012	1/2	11,300	2.75	0.752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

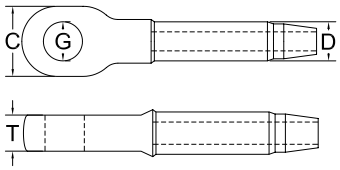
ISO 9001:2008

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;
- Rigourous **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 equipement;
- Continuous **training** of our employees;
- A multidisciplinary team offering complete and professional technical **support**;
- The **involvement** of all employees in our quality management system.

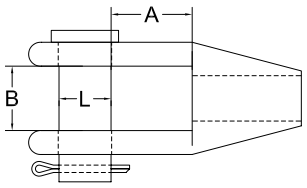
Closed Swage Sockets (forged steel)

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



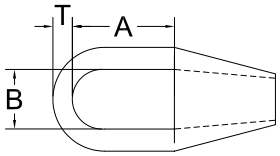
Open Spelter Sockets (forged steel, galvanized)

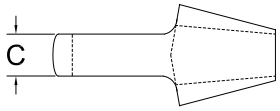
Code	For cable diameter in.	(G416 - G417) Wirelock Req. cc	Weight ea. lbs.	Dimensions in.		
				A	B	L
G416-014	1/4	9	0.90	1.219	11/16	11/16
G416-516	5/16	17	1.30	1.344	13/16	13/16
G416-038	3/8	17	1.30	1.344	13/16	13/16
G416-716	7/16	35	2.30	1.000	1	1
G416-012	1/2	35	2.30	1.000	1	1
G416-916	9/16	52	3.90	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



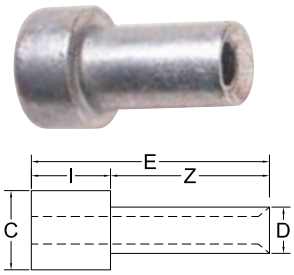
Closed Spelter Sockets (forged steel, galvanized)

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





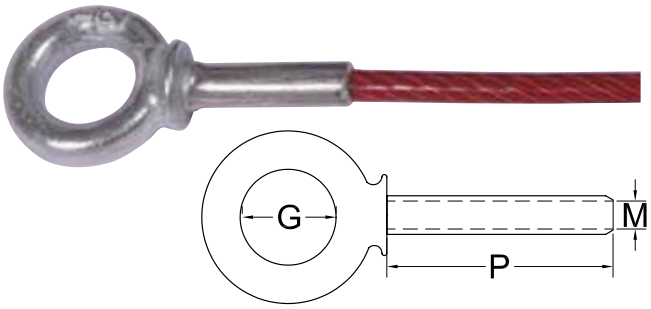
Ben-Mor Single Shank Balls



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.

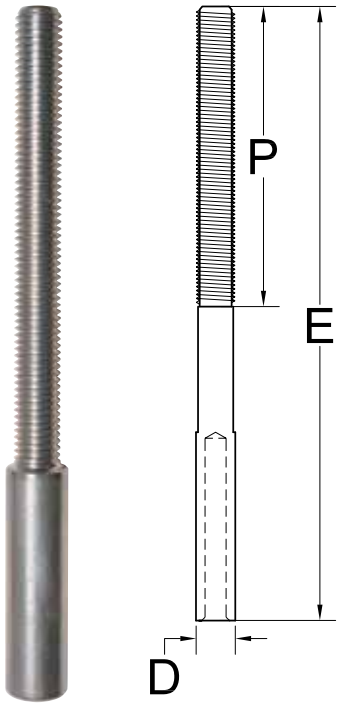
Eye Bolts shoulder-drilled (zinc plated, drop-forged)



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							

Oher dimensions available upon request
See Shoulder Type Machinery Eye Bolt for dimensions (page 36)

Ben-Mor Threaded Studs

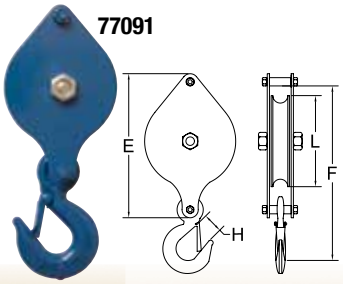


Code	For cable diameter in.	Threads size UNC	Dimensions in.			Finish
			D Before swage	E	P	
BM21259-014F	3/32	1/4 – 20	1/4	2 9/16	1 1/2	ZP
BM21259-014B	1/8	1/4 – 20	1/4	2 1/2	1/2	ZP
BM21259-014C	1/8	1/4 – 20	1/4	2 9/16	1 1/2	ZP
BM21259-014E	1/8	1/4 – 20	1/4	3 3/4	1 1/2	ZP
BM21259-516A	1/8	5/16 – 18	5/16	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

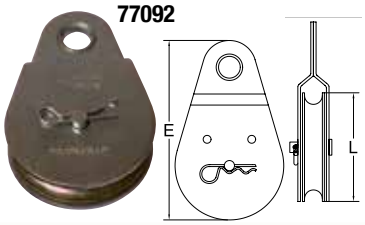
Available on request : Stainless steel, Left-Hand thread, metric thread, fine thread. Custom made for cables up to 1 1/2". Other dimensions available upon request.

Heavy Duty Pulleys

77091



77092

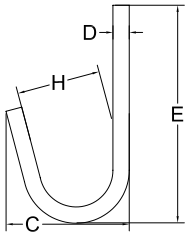


Code	Size in.	Dimensions in.				Working load limit lbs.	Qty CTN
		E	F	H	L		
77091	5	4.920	6.615	0.750	2.640	700	6
77092	2 1/2	4.208	-	-	2.500	1,100	6
77101	2	3.684	-	-	2.00	N/D	6

Stake Hooks

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

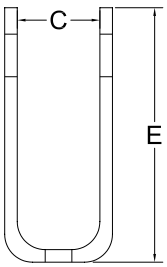
Available in zinc plated steel.

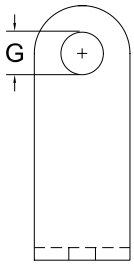


Ben-Mor Strap Forks

Code	For cable diameter in.	Weight ea. lbs.	Dimensions 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.

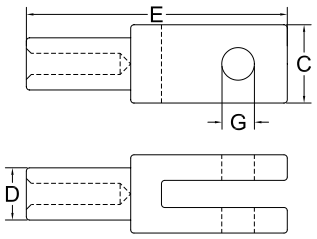




Ben-Mor Forks

Code	For cable diameter in.	Weight ea. lbs.	Dimensions in.				
			C	D Before swage	D 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

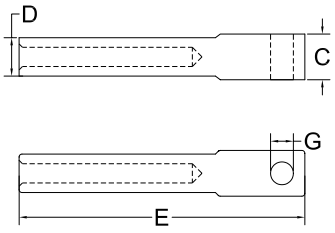
Available in steel natural finish and zinc plated. Custom made for cables up to 1 1/2". Other dimensions available upon request.



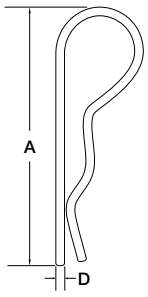
Ben-Mor Eye Ends

Code	For cable diameter in.	Weight ea. lbs.	Dimensions in.				
			C	D Before swage	D 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.

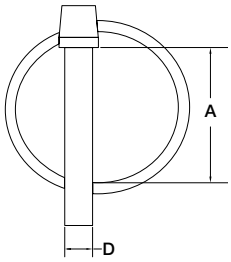


Hair Pin Clip



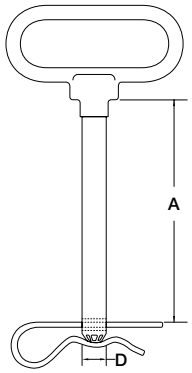
Code	Weight / each lbs.	Dimensions in.		Qty / Unit	Unit / Box
		A	D		
70470	0,001	1 5/8	5/64	1	48
70473	0,04	3	5/32	1	48
70472	0,02	2 5/8	1/8	1	48
70471	0,01	1 3/4	3/32	1	48
70474	0,12	4 1/4	1/4	1	48
70475	0,13	4 5/8	1/4	1	48
79470	0,07	1 5/8	5/64	10	6
79473	0,20	3	5/32	5	6
79472	0,11	2 5/8	1/8	5	6
79471	0,09	1 3/4	3/32	10	6
79474	0,37	4 1/4	1/4	3	6

Linch Pin Yellow



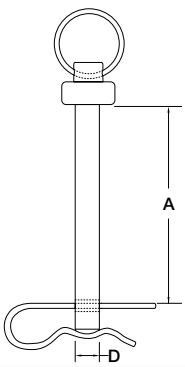
Code	Weight / each lbs.	Dimensions in.		Qty / Unit	Unit / Box
		A	D		
70430	0,03	1	3/16	1	36
70431	0,06	1 1/4	1/4	1	36
70432	0,07	1 1/4	5/16	1	36
70433	0,09	1 1/4	3/8	1	36
70434	0,12	1 3/4	7/16	1	36

Hitch Pin – "Premium"



Code	Weight / each lbs.	Dimensions in.		Qty / Unit	Unit / Box
		A	D		
70450	0,32	2 1/2	3/8	1	6
70451	0,48	3 1/2	1/2	1	6
70452	0,66	4	5/8	1	6
70456	0,46	4 1/2	3/4	1	6
70458	0,63	4 1/2	7/8	1	6
70454	0,79	5 1/2	5/8	1	1
70457	1,26	6 1/2	3/4	1	1
70459	1,70	6 1/2	7/8	1	1
70461	2,30	7 1/2	1	1	4
70463	3,11	8 1/2	1 1/8	1	4
70464	3,75	8 1/2	1 1/4	1	4

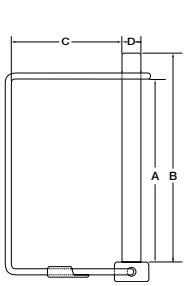
Hitch Pin Round Ring



Code	Weight / each lbs.	Dimensions in.		Qty / Unit	Unit / Box
		A	D		
70411	0,18	3	3/8	1	6

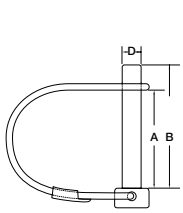
Square Quick Pin

Code	Weight / each lbs.	Dimensions in.				Qty / Unit	Unit / Box
		A	B	C	D		
70421	0,07	2 1/2	2 13/16	1 1/2	1/4	1	24
70422	0,11	2 1/2	2 7/8	1 1/2	5/16	1	24
70423	0,14	2 1/2	2 2/3	1 3/4	3/8	1	24



Round Quick Pin

Code	Weight / each lbs.	Dimensions in.			Qty / Unit	Unit / Box
		A	B	D		
70415	0,05	1 3/8	1 11/16	1/4	1	24
70416	0,06	1 3/4	2 1/16	1/4	1	24
70417	0,08	1 3/8	1 11/16	5/16	1	24
70418	0,08	1 3/4	2 1/16	5/16	1	24
70419	0,10	1 3/8	1 11/16	3/8	1	24



Double Lock Snaps

Code	Eye Dimension in.	Length in.	Finish	Pack/ 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	Pack/ Ctn
70819	5/8	2 1/2	Zinc, nickel plated	12
70838	3/4	4	Zinc, nickel plated	12

Security Snaps

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

Swivel Spring Snaps

70813

Code	Eye Dimension in.	Length in.	Finish	Pack/ Ctn
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

Spring Snaps

70810

Code	Eye Dimension in.	Length in.	Finish	Pack/ 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
70825	1	3	Zinc, nickel plated, square eye	6

Panic Snaps

Code	Eye Dimension in.	Length in.	Finish	Pack/ Ctn
70827	1/2	3 3/4	Zinc, nickel plated	6
70860	1 1/8	4 1/4	Brass	6

Simplex Snaps

Code	Eye Dimension in.	Length in.	Finish	Pack/ 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	Pack/ 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

70816

70823

Swivel Boat Snaps

Code	Eye Dimension in.	Length in.	Finish	Pack/ Ctn
77082	5/8	3 1/4	Zinc, nickel plated	6
70821	5/8	3 1/4	Brass	6
70830	3/4	3 3/4	Brass	6
77080	3/4	4 1/4	Bronze finish	6

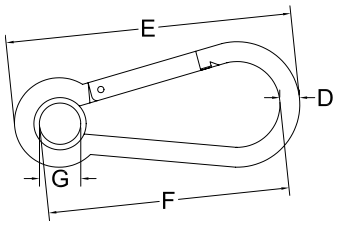
Swivel Lock Snaps

Code	Eye Dimension in.	Length in.	Finish	Pack/ 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
70861	5/8	3	Zinc, nickel plated	6
70828	3/4	3 1/2	Zinc, nickel plated	12
70858	1	4 1/4	Zinc, nickel plated	6
70820	3/4	3	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

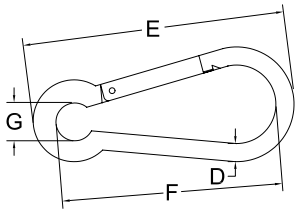
Code	For cable Diameter in.	Length in.	Breaking Strength lbs.	Finish	Weight ea. lbs.
BM844-A-NP	3/32	2 1/2	400	Zinc, nickel plated	0.082
BM844-B-NP	1/8	2 1/8	400	Zinc, nickel plated	0.079
BM-830-2-NP	1/8	2 3/4	1,000	Zinc, nickel plated	0.192

Carbine Snap Hooks with Eyelets (zinc plated)



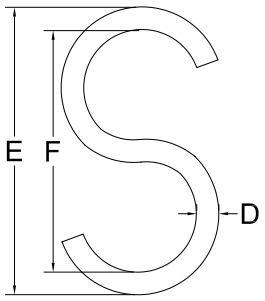
Code	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.				
			D		E	F	G
			in.	mm			
S8-1	100	0.04	3/16	5	1.97	1.586	0.197
S8-2	140	0.06	1/4	6	2.36	1.894	0.197
S8-3	240	0.15	5/16	8	3.15	2.449	0.315
S8-4	400	0.32	3/8	10	3.94	3.071	0.394
S8-5	560	0.60	1/2	12	5.51	4.470	0.512
Safety Factor 5:1							

Carbine Snap Hooks (zinc plated)



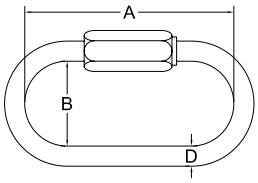
Code	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.				
			D		E	F	G
			in.	mm			
S10-1	100	0.04	3/16	5	1.97	1.614	0.197
S10-2	140	0.06	1/4	6	2.36	1.949	0.197
S10-3	240	0.15	5/16	8	3.15	2.545	0.315
S10-4	400	0.32	3/8	10	3.94	3.199	0.394
S10-4.5	485	0.42	7/16	11	4.72	3.960	0.433
S10-5	560	0.60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

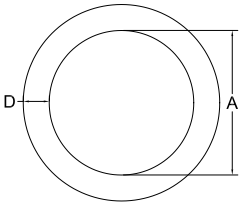
Quick links rated (zinc plated)



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						

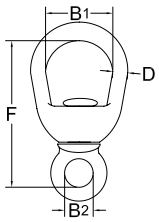
Round Rings (nickel plated)

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



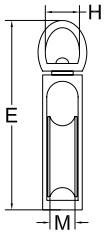
Malleable Swivel (zinc plated)

Code	For Cable Diameter in.	Working load limit lbs.	Weight / each lbs.	Dimensions in.			
				B1	B2	D	F
SW316112	3/16	N/D	0.044	.57	.31	.21	1 1/2
SW316134	3/16	N/D	0.044	.57	.31	.21	1 3/4
SW014214	1/4	400	0.11	.71	.43	.23	2 1/4
SW516234	5/16	N/D	0.086	1.00	.48	.32	2 3/4
Safety Factor 5:1							



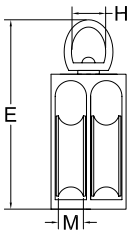
Zinc Swivel Eye Pulleys (single)

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



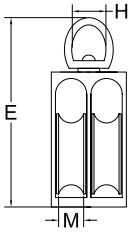
Zinc Swivel Eye Pulleys (double)

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



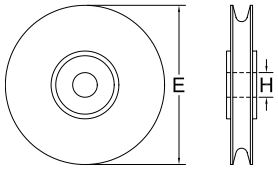
Zinc Fixed Eye Pulleys (double)

Code	Size in.	Std Pack	Dimensions in.		
			E	H	M
77083	1 1/2	6	3.00	.375	.400



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.

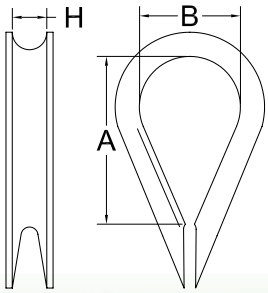
Other dimensions available upon request.

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.

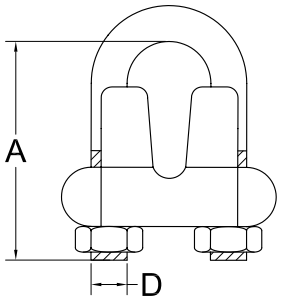
AN Thimbles (stainless steel 304)



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

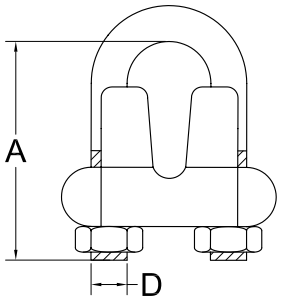
Wire Rope Clips (stainless steel 316)

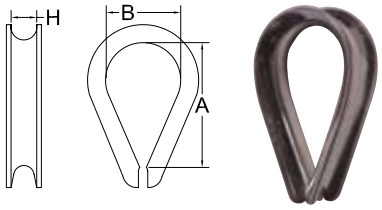
Code	For cable diameter in.	Dimensions in.		Weight / ea. lbs.
		A	D	
WRCS6-116	1/16	0.620	0.110	0.020
WRCS6-018	1/8	0.810	0.150	0.030
WRCS6-532	5/32	0.810	0.150	0.040
WRCS6-316	3/16	0.960	0.190	0.060
WRCS6-014	1/4	1.490	0.230	0.090
WRCS6-516	5/16	1.315	0.300	0.190
WRCS6-038	3/8	1.855	0.385	0.370
WRCS6-012	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)

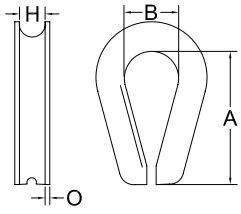
Code	For cable diameter in.	Dimensions in.		Weight / ea. lbs.
		A	D	
WRCS4-116	1/16	0.705	0.150	0.020
WRCS4-018	1/8	0.830	0.195	0.030
WRCS4-532	5/32	0.905	0.205	0.040
WRCS4-316	3/16	0.945	0.235	0.060
WRCS4-014	1/4	1.285	0.300	0.090
WRCS4-516	5/16	1.375	0.312	0.190
WRCS4-038	3/8	1.725	0.385	0.370
WRCS4-012	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)

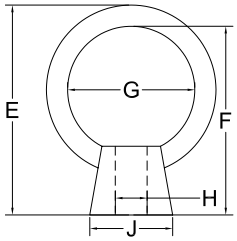
Standard Code 304	For cable diameter in.	Weight / ea. approx. lbs.	Dimensions in.		
			A	B	H
STDTS4-018	1/8	.006	.709	.394	.157
STDTS4-316	3/16	.014	.827	.512	.236
STDTS4-014	1/4	.024	1.063	.591	.276
STDTS4-516	5/16	.056	1.496	.866	.354
STDTS4-038	3/8	.073	1.614	.945	.394
STDTS4-012	1/2	.139	2.080	1.142	.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)

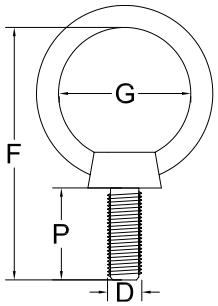
Heavy Duty Code 316	For cable diameter in.	Weight / ea. approx. lbs.	Dimensions in.			
			A	B	H	O
HDTS6FS-316	3/16	0.04	1.35	0.71	0.23	0.05
HDTS6FS-014	1/4	0.08	1.60	0.90	0.28	0.07
HDTS6FS-516	5/16	0.14	1.85	1.08	0.35	0.07
HDTS6FS-038	3/8	0.25	2.00	1.12	0.40	0.11
HDTS6FS-012	1/2	0.53	2.62	1.52	0.55	0.15
HDTS6FS-058	5/8	0.70	3.00	1.78	0.65	0.15
HDTS6FS-034	3/4	1.25	3.83	2.02	0.85	0.22
HDTS6FS-078	7/8	1.50	4.08	2.30	0.95	0.22
HDTS6FS-001	1	2.50	4.80	2.56	1.12	0.22

Eye Nuts (stainless steel)



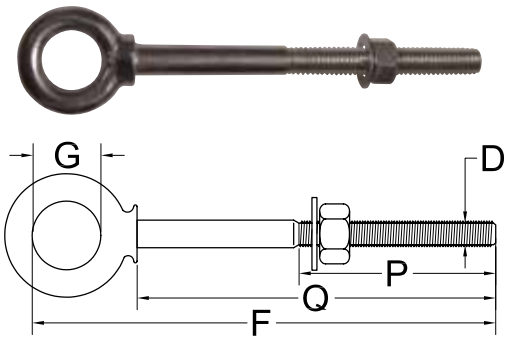
Code	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.				
			E	F	G	H	J
ENS-014	400	0.04	1.20	1	0.62	1/4	0.50
ENS-516	700	0.08	1.55	1 5/16	0.75	5/16	0.62
ENS-038	1,000	0.13	1.92	1 5/8	0.97	3/8	0.76
ENS-012	2,000	0.26	2.38	2	1.17	1/2	0.95
ENS-058	3,200	0.53	2.81	2 1/2	1.34	5/8	1.19
ENS-034	4,700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

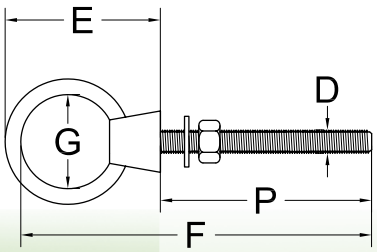
Shoulder Nut Eye Bolts (stainless steel 316)



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

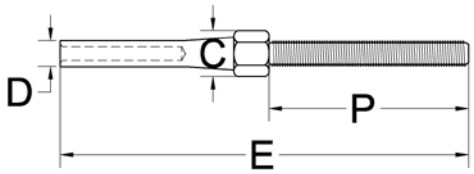
Shoulder Nut Eye Bolts Heavy Duty (stainless steel 316)



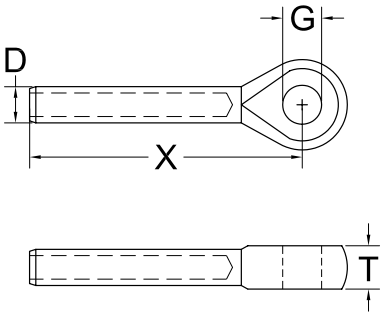
Code	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.				
			D	E	F	G	P
HDSNEBS-014002	400	0.07	1/4	1.20	3	0.62	2.00
HDSNEBS-516004	700	0.16	5/16	1.55	5 1/4	0.75	4.00
HDSNEBS-038005	1,000	0.29	3/8	1.92	6 5/8	0.97	5.00
HDSNEBS-012006	2,000	0.61	1/2	2.38	7 7/8	1.17	6.00
HDSNEBS-058006	3,200	1.10	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 NF-3A or UNF-3A	Dimensions in.					
			C	D Before swage	D After swage	E Before swage	E 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 Before swaging	D After swaging	G Before swage	T Before swage	X Before swage	X 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 E & E	Code J & J	Size Diameter x Take-Up in.	Working Load Limit lbs. E & E / J & J	Code H & H	Size Diameter x Take-Up in.	Working Load Limit lbs. H & H	Weight / ea. lbs.
TEES-316214	TJJS-316214	3/16 x 2 1/4	300	THHS-316212	3/16 x 2 1/2	100	0.10
TEES-014234	TJJS-014234	1/4 x 2 3/4	440	THHS-014003	1/4 x 3	200	0.20
TEES-516334	TJJS-516334	5/16 x 3 3/4	800	THHS-516004	5/16 x 4	400	0.37
TEES-038434	TJJS-038434	3/8 x 4 3/4	1,200	THHS-038006	3/8 x 6	700	0.60
TEES-012006	TJJS-012006	1/2 x 6	2,200	THHS-012006	1/2 x 6	1,000	1.25
TEES-058008	TJJS-058008	5/8 x 8	2,800	THHS-058008	5/8 x 8	1,500	2.38
TEES-034010	TJJS-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 E & E	Code J & J	Size Diameter x Take-Up in.	Working Load Limit lbs. E & E / J & J	Code H & H	Size Diameter x Take-Up in.	Working Load Limit lbs. H & H	Weight / ea. lbs.
TEES-014004F	TJJS-014004F	1/4 x 4	460	THHS-014004F	1/4 x 4	300	0.20
TEES-516412F	TJJS-516412F	5/16 x 4 1/2	780	THHS-516412F	5/16 x 4 1/2	500	0.37
TEES-038006F	TJJS-038006F	3/8 x 6	1,160	THHS-038006F	3/8 x 6	750	0.60
TEES-012006F	TJJS-012006F	1/2 x 6	2,150	THHS-012006F	1/2 x 6	1,050	1.25
TEES-058006F	TJJS-058006F	5/8 x 6	3,440	THHS-058006F	5/8 x 6	1,600	2.38
TEES-034006F	TJJS-034006F	3/4 x 6	5,140	THHS-034006F	3/4 x 6	2,000	4.00
Safety Factor 5:1							

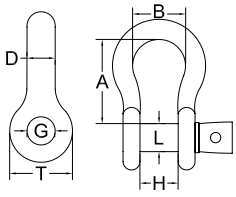
UNC threading

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)

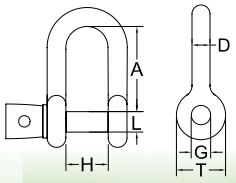
Code	Size in.	Working Load Limit lbs.	Weight ea. lbs.	Dimensions (in.)						
				A	B	D	G	H	L	T
SPAS-316S6	3/16	400	0.03	0.740	0.622	0.206	0.220	0.375	0.200	0.448
SPAS-014S6	1/4	720	0.06	0.820	0.960	0.232	0.268	0.526	0.225	0.500
SPAS-516S6	5/16	1,060	0.16	1.350	1.120	0.305	0.335	0.660	0.308	0.625
SPAS-038S6	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	1.220	0.462	1.010
SPAS-058S6	5/8	4,400	1.00	2.900	2.130	0.620	0.635	1.220	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										



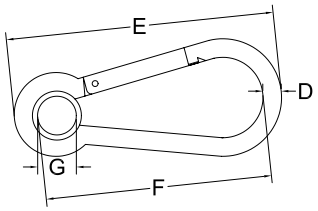
Do not use for lifting. Lifting application available on request.

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									

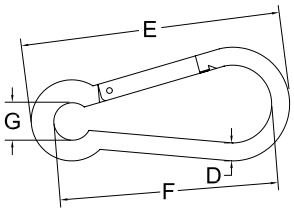


Do not use for lifting. Lifting application available on request.



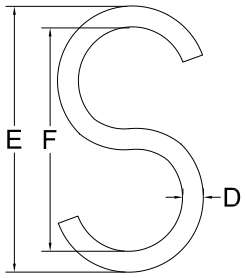
Carbine Snap Hooks with Eyelets (stainless steel 316)

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 3:1							



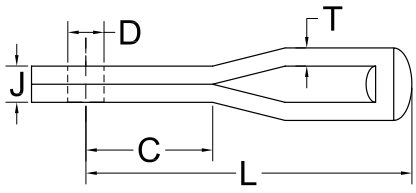
Carbine Snap Hooks (stainless steel 316)

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 3:1							



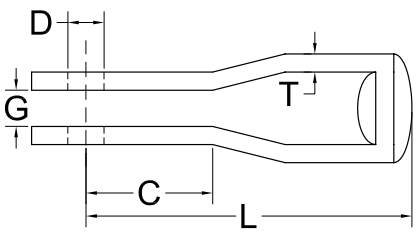
"S" Hooks (stainless steel 316)

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

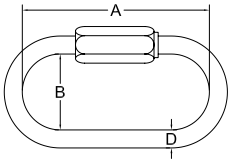


Stainless Strap Forks (Stainless Steel)

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

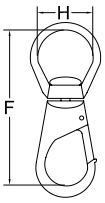
Quick links (stainless steel 316)

Code	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.			
			A	B	D	
					in.	mm
QLS-018	220	0.03	1.00	0.335	1/8	3
QLS-532	500	0.05	1.29	0.437	5/32	4
QLS-316	660	0.06	1.40	0.512	3/16	5
QLS-014	880	0.09	1.77	0.571	1/4	6
QLS-516	1,760	0.18	2.28	0.689	5/16	8
QLS-038	2,640	0.28	2.72	0.808	3/8	10
QLS-012	3,300	0.70	3.17	0.925	1/2	12
Safety Factor 3 : 1						



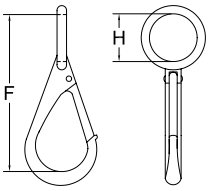
Swivel Eye Snaps (stainless steel 316)

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



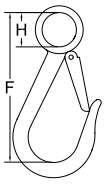
Fixed Eye Snaps (stainless steel 316)

Code	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.	
			F	H
S1-0	100	0.050	2	7/16
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



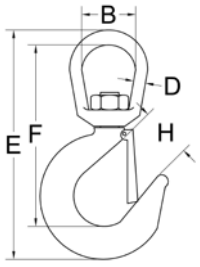
Safety Snap Hooks (stainless steel 316)

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



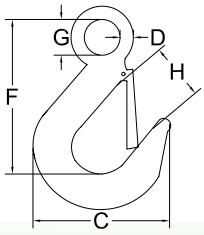
Swivel Hooks (stainless steel 316)

Code	Working Load Limit lbs.	Weight ea. lbs.	Dimensions 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 size in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.			
				D	F	G	H
EHS-014	1/4	600	0.35	1/4	2.54	0.53	0.68
EHS-516	5/16	1,100	0.55	5/16	2.85	0.64	0.70
EHS-038	3/8	1,540	0.92	3/8	3.28	0.71	0.80
EHS-012	1/2	2,860	1.90	1/2	4.17	0.94	1.02
Safety Factor 5:1							



We Build the Future

ARMOUR WEB™

- ✔ Excellente Resistance to Abrasion
- ✔ Best Value in Sinthetic Web Slings
- ✔ Longer sling life reducing rigging costs
- ✔ Available in a wide range of sizes
- ✔ 100% Polyester
- ✔ 3% Elongation
- ✔ Maximum temperature exposure 180°F
- ✔ Better resistance to UV rays than Nylon
- ✔ Excellent chemical resistance

Resultats from a 5000 cycle Hex-Bar Abrasion test proved ARMOUR WEB to be better than treated Nylon and treated Polyester.

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	OKJ	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.

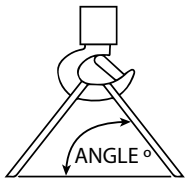
Angle reduction

Angle Degrees	Factor
90°	1
85°	0.996
80°	0.985
75°	0.966
70°	0.94
65°	0.906
60°	0.866
55°	0.819
50°	0.766
45°	0.707
40°	0.643
35°	0.574
30°	0.500

CAUTION: SLING SHOULD FIT THE HOOK

On eye and eye type slings, the eyes must be of ample length to easily slip over the crane hook, thus reducing stress on stitching.

Rated capacities are affected by angle of lift (sling to load angle) measured from the horizontal when used with multi-legged slings or chocker/basket hitches. To determine the actual capacity at a given angle of lift, multiply the original sling rating by the appropriate loss factor determined from the table above.



Reduction of sling capacity depends on the angle of the Sling leg. See charts for loss factor.

Web Sling Rating		60° angle		Number		2 Leg Bridle
EE2-902	X	reduction	X	of Legs	=	EE2-902
6,200 lbs		.866		2		10,730 lbs

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

TYPE 1

TYPE 2

TYPE 3

TYPE 4

SINGLE PLY						
Width in.	Working Load Limit lbs.					
	Vertical	Choker	Basket 90°	Basket 60°	Basket 45°	Basket 30°
1	1,600	1,280	3,200	2,770	2,260	1,600
2	3,100	2,480	6,200	5,360	4,380	3,100
3	4,700	3,760	9,400	8,140	6,640	4,700
4	6,200	4,960	12,400	10,730	8,760	6,200
6	9,300	7,440	18,600	16,100	13,150	9,300
8	11,750	9,400	23,500	20,350	16,610	11,750
10	14,700	11,760	29,400	25,460	20,780	14,700
12	17,650	14,120	35,300	30,560	24,950	17,650
Safety Factor 5:1						

DOUBLE PLY						
Width in.	Working Load Limit lbs.					
	Vertical	Choker	Basket 90°	Basket 60°	Basket 45°	Basket 30°
1	3,100	2,400	6,200	5,300	4,300	3,100
2	6,200	4,960	12,400	10,700	8,700	6,200
3	8,800	7,040	17,600	15,200	12,400	8,800
4	11,000	8,800	22,000	19,000	15,500	11,000
6	16,500	13,200	33,000	28,500	23,300	16,500
8	22,750	18,200	45,500	39,400	32,100	22,750
10	28,400	22,720	56,800	49,100	40,100	28,400
12	34,100	27,280	68,200	59,000	48,200	34,100
Safety Factor 5:1						

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

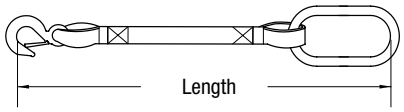
Synthetic Web Sling type # 3 - 4

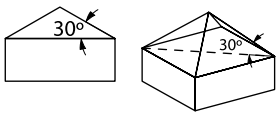
TRIPLE PLY						
Width in.	Working Load Limit lbs.					
	Vertical	Choker	Basket 90°	Basket 60°	Basket 45°	Basket 30°
1	4,100	3,300	8,200	7,050	5,780	4,100
2	8,300	6,600	16,600	10,470	11,700	8,300
3	12,500	10,000	25,000	21,500	17,600	12,500
4	16,000	12,800	32,000	27,500	22,500	16,000
6	23,000	18,400	46,000	39,500	32,400	23,000
8	30,700	24,500	61,400	52,800	43,300	30,700
10	36,800	29,400	73,600	63,300	51,900	36,800
12	44,000	35,200	88,000	75,700	62,000	44,000
Safety Factor 5:1						

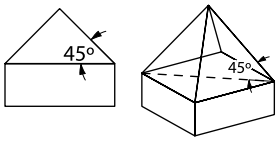
QUADRUPLE PLY						
Width in.	Working Load Limit lbs.					
	Vertical	Choker	Basket 90°	Basket 60°	Basket 45°	Basket 30°
1	5,500	4,400	11,000	9,500	7,700	5,500
2	11,000	8,800	22,000	19,000	15,500	11,000
3	16,450	13,100	32,900	28,400	23,200	16,450
4	20,400	16,300	40,800	35,300	28,800	20,400
6	30,600	24,400	61,200	52,900	43,200	30,600
8	39,700	31,700	79,400	68,600	56,000	39,700
10	49,600	39,600	99,200	85,800	69,900	49,600
12	59,500	47,600	119,000	102,900	83,900	59,500
Safety Factor 5:1						

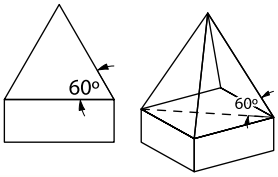
Material available : Polyester, Nylon
Class 7 : 9,800 lbs/in. = Fabric Tensile

Synthetic slings should be used with wear pads. Wear pads will reduce the wear on the sling, and in turn extend the life of the sling.









PRODUCT CODE

Ex: D | 3 - 1 | 9 | 01 | P | 3 | B | 003 - 06

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

WARNING Maximum rated capacities for new slings.
Do not exceed.

Synthetic Web Sling type # 5

SINGLE PLY						
Width in.	Working Load Limit lbs.					
	Vertical	Choker	Basket 90°	Basket 60°	Basket 45°	Basket 30°
1	3,200	2,560	6,400	5,540	4,520	3,200
2	6,200	4,960	12,400	10,730	8,760	6,200
3	9,400	7,520	18,800	16,200	13,200	9,400
4	12,400	9,920	24,800	21,470	17,530	12,400
6	18,600	14,880	37,200	32,210	26,300	18,600
Safety Factor 5:1						

DOUBLE PLY						
Width in.	Working Load Limit lbs.					
	Vertical	Choker	Basket 90°	Basket 60°	Basket 45°	Basket 30°
1	6,200	4,960	12,400	10,700	8,700	6,200
2	12,400	9,920	24,800	21,400	17,500	12,400
3	17,600	14,080	35,200	30,400	24,800	17,600
4	22,000	17,600	44,000	38,100	31,100	22,000
6	33,000	26,400	66,000	57,100	46,600	33,000
Safety Factor 5:1						

TYPE 5

TRIPLE PLY						
Width in.	Working Load Limit lbs.					
	Vertical	Choker	Basket 90°	Basket 60°	Basket 45°	Basket 30°
1	7,900	6,300	15,800	13,600	11,100	7,900
2	15,800	12,600	31,600	27,300	22,300	15,800
3	22,900	18,300	45,800	39,600	32,300	22,900
4	30,600	24,400	61,200	52,900	43,200	30,600
6	45,800	36,600	91,600	79,300	64,700	45,800
Safety Factor 5:1						

QUADRUPLE PLY						
Width in.	Working Load Limit lbs.					
	Vertical	Choker	Basket 90°	Basket 60°	Basket 45°	Basket 30°
1	10,200	8,100	20,400	17,600	14,400	10,200
2	19,800	15,800	39,600	34,200	27,900	19,800
3	30,000	24,000	60,000	51,900	42,400	30,000
4	39,600	31,600	79,200	68,500	55,900	39,600
6	59,500	47,600	119,000	103,000	84,100	59,500
Safety Factor 5:1						

Type 6 - Return eye

Type 6 (RE) return eye slings have protective webbing sewn on the body to provide a long lasting flexible and wear-resistant sling. These slings can be used a vertical, chocker or basket hitch.

RE1 & RE2

SINGLE PLY					DOUBLE PLY				
Code	Width in.	Working Load Limit lbs.			Code	Width in.	Working Load Limit lbs.		
		Vertical	Choker	Basket 90°			Vertical	Choker	Basket 90°
RE1-902	2	3,100	2,300	6,200	RE2-902	2	6,100	4,500	12,200
RE1-904	4	6,000	4,500	12,000	RE2-904	4	12,000	9,000	24,000
RE1-906	6	8,600	6,450	17,200	RE2-906	6	16,300	12,200	32,600
Safety Factor 5:1					Safety Factor 5:1				

Type 7 - Light duty eye & eye

These slings are designed for occasional or light duty lofting applications. They can be used in a vertical, chocker & basket hitch. Available 1" & 1.75 " only.

EE1 & EE2

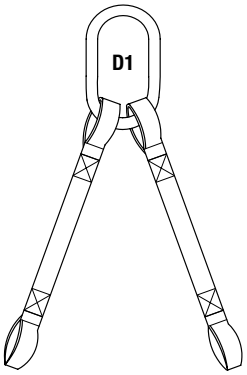
SINGLE PLY					DOUBLE PLY				
Code	Width in.	Working Load Limit lbs.			Code	Width in.	Working Load Limit lbs.		
		Vertical	Choker	Basket 90°			Vertical	Choker	Basket 90°
EE1-601	1	1,100	880	2,200	EE2-601	1	2,200	1,650	4,400
EE1-675	1 3/4	1,900	1,425	3,800	EE2-675	1 3/4	3,800	2,850	7,600
Safety Factor 5:1					Safety Factor 5:1				

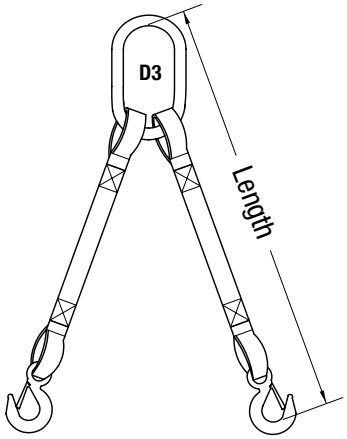
Type 7 - Light duty endless

EN1 & EN2

SINGLE PLY					DOUBLE PLY				
Code	Width in.	Working Load Limit lbs.			Code	Width in.	Working Load Limit lbs.		
		Vertical	Choker	Basket 90°			Vertical	Choker	Basket 90°
EN1-601	1	2,200	1,750	4,400	EN2-601	1	4,400	3,500	8,800
EN1-675	1 3/4	3,800	3,050	7,600	EN2-675	1 3/4	7,700	6,100	15,400
Safety Factor 5:1					Safety Factor 5:1				

Synthetic Web Sling, double leg

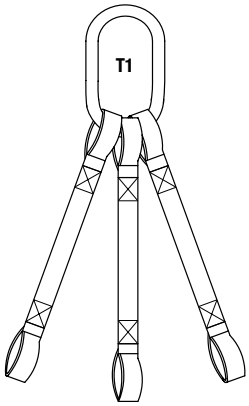


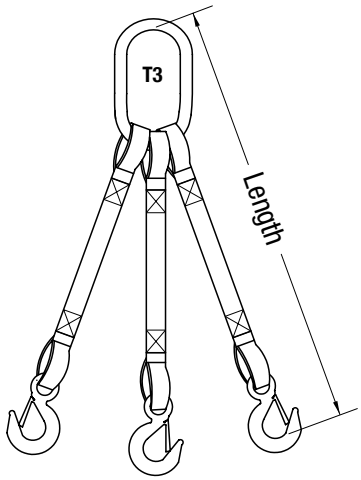


Note : Never exceed work load limit.

Number of plys	Material Width in.	Working Load Limit 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	10,790	8,760	6,200
2	3	15,240	12,440	8,800
2	4	19,050	15,550	11,000
3	1	6,580	5,370	3,800
3	2	12,820	10,460	7,400
3	3	19,400	15,840	11,200
3	4	25,630	20,930	14,800
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				

Synthetic Web Sling, three legs

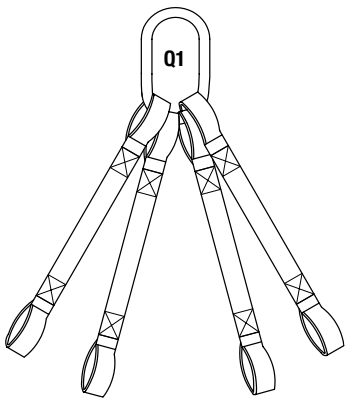


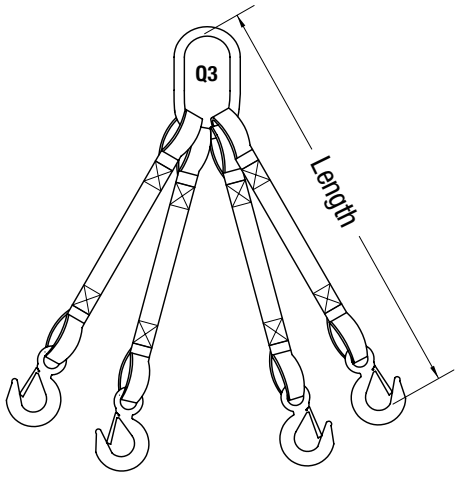


Note : Never exceed work load limit.

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	13,150	9,300
2	3	22,800	18,600	13,200
2	4	28,500	23,300	16,500
3	1	9,870	8,060	5,700
3	2	19,220	15,690	11,100
3	3	29,100	23,750	16,800
3	4	38,450	31,390	22,200
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				

Synthetic Web Sling, four legs





Note : Never exceed work load limit
Material available : Polyester, Nylon
Class 7 : 9,800 lbs/in. = Fabric Tensile

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	10,730	8,760	6,200
2	2	21,470	17,530	12,400
2	3	30,400	24,800	17,600
2	4	38,100	31,100	22,000
3	1	13,160	10,750	7,600
3	2	25,630	20,930	14,800
3	3	38,800	31,670	22,400
3	4	51,270	41,850	29,600
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				

Wide Lift Cargo Heavy Loads

Wide lift slings provide maximum weight distribution of the load for those extra wide lifts. These slings have tapered eyes but can only be used in a basket hitch.

WL

SINGLE PLY				
Code	Width in.	Eye Length in.	Eye Width in.	Working Load Limit lbs. Basket
WL1-906	6	9	1.5	15,400
WL1-908	8	12	2	20,400
WL1-912	12	18	3	30,800
WL1-916	16	24	4	38,000
WL1-920	20	30	5	45,000
WL1-924	24	36	6	52,000
Safety Factor 5:1				

DOUBLE PLY				
Code	Width in.	Eye Length in.	Eye Width in.	Working Load Limit lbs. Basket
WL2-906	6	9	1.5	28,600
WL2-908	8	12	2	38,000
WL2-912	12	18	3	57,200
WL2-916	16	24	4	75,000
WL2-920	20	30	5	90,000
WL2-924	24	36	6	110,00
Safety Factor 5:1				

Wide Lift Cargo Light Loads

Wide lift light load slings are made with a single ply body and an eye is attached. Eyes are available in on ply (WLA1) and two ply (WLA2).

WLA

SINGLE PLY EYES				
Code	Width in.	Eye Length in.	Web Width Used for Eye in.	Working Load Limit lbs. Basket
WLA1-906	6	10	1	5,000
WLA1-908	8	10	1	5,000
WLA1-910	10	12	1	5,000
WLA1-912	12	12	1	5,000
WLA1-916	16	12	2	10,000
WLA1-920	20	18	2	10,000
WLA1-924	24	18	2	10,000
Safety Factor 5:1				

DOUBLE PLY EYES				
Code	Width in.	Eye Length in.	Web Width Used for DOUBLE PLY Eyes in.	Working Load Limit lbs. Basket
WLA1-906	6	10	1	10,000
WLA1-908	8	10	1	10,000
WLA1-910	10	12	1	10,000
WLA1-912	12	12	1	10,000
WLA1-916	16	12	2	18,000
WLA1-920	20	18	2	18,000
WLA1-924	24	18	2	18,000
Safety Factor 5:1				

Wide Lift Cargo Light - Endless Style

SINGLE PLY EYES				
Code	Width in.	Eye Length in.	Web Width Used for Endless Sling Eye in.	Working Load Limit lbs. Basket
WLE1-906	6	10	1	5,000
WLE1-908	8	10	1	5,000
WLE1-910	10	12	1	5,000
WLE1-912	12	12	1	5,000
WLE1-916	16	12	2	10,000
WLE1-920	20	18	2	10,000
WLE1-924	24	18	2	10,000
Safety Factor 5:1				

DOUBLE PLY EYES				
Code	Width in.	Eye Length in.	Web Width Used for DOUBLE PLY Endless Sling Eye in.	Working Load Limit lbs. Basket
WLE2-906	6	10	1	10,000
WLA2-908	8	10	1	10,000
WLE2-910	10	12	1	10,000
WLE2-912	12	12	1	10,000
WLE2-916	16	12	2	18,000
WLE2-920	20	18	2	18,000
WLE2-924	24	18	2	18,000
Safety Factor 5:1				

WARNING Maximum rated capacities for new slings.

Do not exceed.

GS1

Glass Slings

Glass Lifting Slings can be custom made to fit any size glass pack or crate. The slings are available with fully lined with Rubber on the inside to protect the sling from the sharp edges.

Code	SINGLE PLY		
	Length in.	Height Range in.	Working Load Limit lbs.
GS1-078	78	36 - 54	12,400
GS1-108	108	60 - 84	12,400
GS1-124	124	72 - 100	12,400
Safety Factor 5:1			

TS2

Transformer slings

Transformer slings are made to move transformers into place. They are made with an endless nylon sling as the link, and 1-3/4" elastic web to ensure the eyes stay into the lifting points.

Code	DOUBLE PLY			
	Width in.	Leg Length in.	Spread in.	Working Load Limit lbs.
				Basket 60°
TS2-015	1 3/4	15	15	2,800
TS2-020S	1 3/4	20	20	2,800
TS2-020L	1 3/4	20	20	2,800
TS2-030	1 3/4	30	30	2,800
Safety Factor 5:1				

Custom fabrication

Ben-Mor takes pride in the custom work we do for our customers. All custom slings are made to a diagram that is approved by the customer before starting the manufacturing process. We identify the product with the diagram number, and keep on file for future orders.

WARNING Maximum rated capacities for new slings.
Do not exceed.

Marine Slings

Nylon Marine slings (MS) are lightweight and easy to use. They will not scratch or abuse the most delicate hull.

Extra eyes are available in tapered fabric or for use with hardware. Allows a single sling to adjust to different overall lengths.

Quick disconnects allow for easy removal and installation of slings. Protective flap included.

Keel pad is fastened to the sling at the centre to protect the sling from wear at the greatest load point.

Lead weights keeps slings under water. Allows easier positioning of slings under boat.

SINGLE PLY		
Code	Width in.	Basket Pounds
MS1-903	3	9,400
MS1-904	4	12,400
MS1-906	6	18,600
MS1-908	8	23,500
MS1-910	10	29,400
MS1-912	12	35,300

DOUBLE PLY		
Code	Width in.	Basket Pounds
MS2-903	3	17,600
MS2-904	4	22,000
MS2-906	6	33,000
MS2-908	8	45,500
MS2-910	10	56,800
MS2-912	12	68,200

Drum Sling

Drum sling safety lifts plastic and steel drums up to 1,000 lbs.

Code	Working Load Limit lbs.
DRUMSLING	10,000

WARNING Maximum rated capacities for new slings.
Do not exceed.

Tow Slings

Tow Slings Eye Style

Code	Width Inches	WII breaking strength lbs	Eye size	Approx. weight/ft in pounds
TS1-902	2	16,000	10	.20
TS2-902	2	32,000	10	.26
TS1-903	3	24,000	11	.30
TS2-903	3	44,000	11	.40
TS1-904	4	32,000	12	.40
TS2-904	4	57,000	12	.50
TS1-906	6	48,000	14	.65
TS2-906	6	82,000	14	.78

Tow Slings Round Style

Code	Width Inches	WII breaking strength lbs	Eye size	Approx. weight/ft in pounds
TS-SL230E	4	115,000	16	1.25
TS-SL320E	4	160,000	16	1.75
TS-SL400E	5	200,000	18	2.25
TS-SL540E	6	270,000	20	2.75

Tow Slings with Hooks

Code	Width inches	WII breaking strength lbs	Hook Size (tons) Alloy	Approx. weight/ft in pounds
TSH1-902	2	15,000	1.5	.30
TSH2-902	2	30,000	3.0	.45
TSH1-903	3	24,000	3.0	.46
TSH2-903	3	44,000	4.5	.80

Features

- ✔ Nylon tow straps give you the flexibility and elasticity that tow chains do not
- ✔ These Nylon tow straps have approximately 15% - 20% stretch
- ✔ Connect the tow straps to solid mounting points under the vehicle
- ✔ Tow slings are NOT for lifting
- ✔ When recovering a vehicle, use straps with loops, not hooks that could retract and hit someone
- ✔ Always inspect the Tow strap before each use for: cuts, knots, burns, or any other damage

Warning cannot use for overhead lifting

CUSTUMER SIZES AVAILABLE

Anchor Straps

Ben-Mor's Atlas Anchor straps become part of a fall arrest system. Anchor tie off points may differ according to the design of the project and or structure. It is important that all workers are trained so that all fall protection regulations are met. Ben-Mor's Atlas Anchor straps have a 5000 lbs minimum breaking strength per strap and meet CSA, ANSI, and OSHA anchorage requirements.

Atlas Low Rise Anchor Strap LR2-42

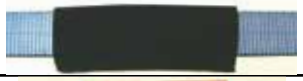
- ✔ 2" X 42" complete with 4" loop one end, and 6" loop other end
- ✔ 1 Box (120 straps, 10/bag)
- ✔ 5,000 Lbs minimum breaking strength

Atlas High Rise Anchor Strap HR2-42

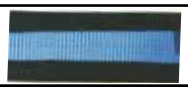
- ✔ 2" X 42" complete with dee ring one end, and 6" loop other end
- ✔ 5,000 Lbs minimum breaking strength

Synthetic slings should be used with wear pads. Wear pads will reduce the wear on the sling, and in turn extend the life of the sling.

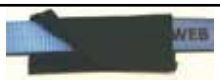
Sliding Wear Pads

	Code	Description	Quality
	WPPT	Polyester Tubing sliding wear pad	Good
	WPC	Cordura Nylon sliding wear pad	Good
	WPPY	Pyrojacket Tubing sliding wear pad Protects against sparks and extreme heat	Good
	WPTN	Sling Webbing sliding wear pad Same material as web slings, usually 2" larger	Very good
	WPBN	Ballistic Nylon sliding wear pad Very high resistance to abrasion	Excellent
	WPB&TN	Ballistic Nylon & Sling webbing sliding wear pad	Excellent
	WPDY	Dyneema sliding wear pad Toughest resistance to abrasion	Best

Sewn Wear Pads

	Code	Description	Quality
	SWPC	Cordura Nylon sewn wear pad	Good
	SWPBN	Ballistic Nylon sewn wear pad	Excellent
	Edges wrapped	Cordura Nylon sewn to cover edges	Good

Velcro Sliding Wear Pads

	Description
	Ballistic Nylon sliding wear pad, with Velcro for easy attachment
	Ballistic Nylon & Sling webbing sliding wear pad, with Velcro for easy attachment.
	Sling Webbing sliding wear pad, with Velcro for easy attachment

Eye Wear Pads

	Description
	Cordura Nylon reinforced eyes
	Cordura Nylon wrapped eyes
	Ballistic Nylon wrapped eyes

Web Sling Inspection Criteria

It is important to inspect your web slings after purchase.

Types of inspection

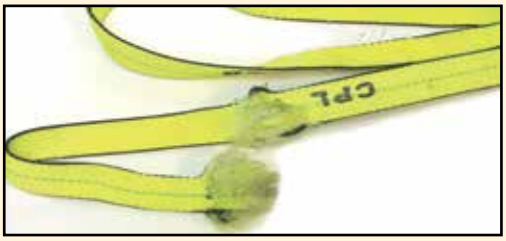
A. **Initial Inspection** - Before any new or repaired web sling is placed in service, it shall be inspected by a designated competent person to ensure that the correct web sling is being used, as well as to determine that the web sling meets the requirements of this specification.

B. **Frequent Inspection** - This inspection should be conduction by the person handling the sling each time the sling is used.

C. **Periodic Inspection** - This inspection shall be conducted by designated personnel. Frequency of inspection should be based on; Frequency of web sling use, Severity of service conditions, experience gained on the service life of web slings used in similar applications. Inspections should be conducted at least annually.

Often riggers confuse a cut sling for a broken sling. View the pictures below to see the difference. The cut sling has come into contact with something sharp that has sliced the sling in half. (You can tell by the clean edge). The broken sling has been pulled to destruction on our test bed. The ends are frayed and melted from heat friction.

Cut sling



Broken sling

Cut Eye

Snag

Remove the sling from service if any of the following is visible:

- ✔ If sling rated capacity or sling material identification is missing or not legible
- ✔ Acid or alkalis burns
- ✔ Melting, charring or weld spatters on any part of the web sling
- ✔ Holes, tears, cuts, snags or embedded particles
- ✔ Broken or worn stitching in load bearing splices
- ✔ Excessive abrasive wear
- ✔ Knots in any part of the web sling
- ✔ Excessive pitting, or corrosion, or cracked, or distorted, or broken fittings
- ✔ Any other visible damage that causes doubt as to the strength of the sling

Inspection Records

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

Repair of Web Slings

Web slings with structural damage shall never be repaired. Web slings utilizing hardware may be rewebbed. The fittings must be visually inspected and proof tested before they can be used.

⚠ WARNING!

This bulletin contains important safety information about the use of synthetic slings. However, it DOES NOT contain all the information you need to know about handling, lifting and manipulating materials and loads safely. Sling use is only one part of a lifting system and it is your responsibility to consider all risk factors prior to using any rigging device or product. Failure to do this may result in severe INJURY or DEATH due to sling failure and/or loss of load.

Read and follow all use and safety information provided with sling. Failure to do so may result in severe INJURY or DEATH due to sling failure and/or loss of load.

The following six points briefly summarize some important safety issues:

1. **All users must be trained** in sling selection, use and inspection, cautions to personnel, environmental effects and rigging practices.
2. **Inspect sling for damage** regularly, if the sling is damaged, remove it from service.
3. **Protect sling from damage**. ALWAYS protect slings in contact with edges, corners, protrusions, or abrasive surfaces with materials of sufficient strength, thickness and construction to prevent damage.
4. **Do not exceed a sling's rated capacity**. Always consider the effect of sling angle and tension on the sling's rated capacity.
5. **Do not stand on, under or near a load** with the sling under tension. All personnel should be alert to danger of falling and/or uncontrolled load, sling tension and the potential for snagging.
6. **Maintain and store slings properly**. Slings should be protected from mechanical, chemical and environmental damage.

1. ALL SLING USERS MUST BE TRAINED AND KNOWLEDGEABLE

All sling users must be trained on the proper use of slings.

It is important that all sling users be trained and knowledgeable about the safe and proper use and application of slings and be thoroughly familiar with the manufacturer's recommendations and safety materials provided with each product. In addition, all sling users need to be aware of their responsibilities as outlined in all applicable standards and regulations. (Please see The American Society of Mechanical Engineers; Safety standards for slings (ASME B30.9))

If you are unsure whether you are properly knowledgeable or trained, or if you are unsure of what the standards and regulations require of you, ask your employer for information and/or training-DO NOT use slings until you are absolutely sure of what you are doing. Remember, when it comes to using slings, lack of skill, knowledge and care can result in severe INJURY or DEATH to you and others.

2. SLINGS MUST BE REGULARLY AND PROPERLY INSPECTED

Even seemingly "minor' damage to a sling can significantly reduce its capacity to hold or lift objects and increases the risk

that the sling will fail during use, Therefore, it is very important that slings are regularly and properly inspected. In reality, there simply is no such thing as "minor" damage. If you are not sure whether a sling is damaged, DO NOT USE IT!

Generally, damage to slings can be detected visually. In some instances, internal damage can occur and not be visible. To detect possible damage, you should perform a visual inspection of the entire sling and also feel along its entire length, as some damage may be felt more than seen. You should look and feel for any of the types of conditions listed in Table 1. Examples of some of these types of damage can be seen in Table 2. Note: that these images are relatively extreme examples provided for illustration purposes only.

A three-stage procedure is recommended to help ensure that slings are inspected with appropriate frequency.

Initial Inspection- Whenever a sling is initially received, it must be inspected by a designated person to help ensure that the correct sling has been received and is undamaged, and that the sling meets applicable requirements for its intended use.

Frequent Inspection -The entire sting must be inspected before each shift or day in normal service and before each use in severe service applications.

Periodic Inspection-Every sling must be inspected "periodically" by a qualified and designated person. In order to validate the frequent level of inspection, the periodic inspection should be performed by someone other than the individual(s) who most commonly performs the frequent inspection. The frequency of periodic inspections is based on the sling's actual or expected frequency of use, severity of service conditions, the nature of the work performed with the sling and experience gained during the inspection of other slings used in similar circumstances. General guidelines for the frequency of periodic inspections are: Normal service is yearly, Severe service is monthly to quarterly, and Special service is as recommended by qualified person. **Periodic inspections must not exceed one year**.

TABLE 1 Sling removal criteria:

The entire sling must be inspected regularly and it shall be removed from service if ANY of the following are detected:

- If sling identification tag is missing or not readable.
- Holes, tears, cuts, embedded materials, excessive abrasive wear, or snags that expose the core yarn of the sling.
- Broken or damaged core yarn.
- Knots in any part of the sling.
- Acid or alkali burns on the sling.
- Melting, charring or weld spatter of any part of the sling.
- Distortion, excessive pitting, corrosion or other damage to fitting(s),
- Broken or worn stitching
- Excessive, abrasive wear or crushed webbing.
- Signs of Ultraviolet (UV) light degradation.
- If provided, exposed red core yarn. However if damage is present and red yarns are not exposed DO NOT USE the sling.
- Any conditions which cause doubt as to the strength of the sling.

3. SLINGS MUST BE ADEQUATELY PROTECTED FROM DAMAGE

You should always avoid any action that causes the types of damage identified in the previous section, including {but not limited to):

- Dropping or dragging slings on the ground, floor or over abrasive surfaces.
- Pulling slings from under loads when the load is resting on the sling--place blocks under the load if feasible.
- Shortening or adjusting sling using methods not approved by the sling manufacturer or qualified person.
- Twisting, kinking, or knotting the sling.
- Exposing slings to damaging acids or alkalis.
- Exposing slings to sources of heat damage or weld spatter.
- Using slings or allowing exposure to temperatures above the recommended temperatures listed on slings warming tags.
- "Tip loading" a sling on a hook instead of centering it in the base or "bowl" of the hook.
- Using hooks, shackles or other hardware that have edges or surfaces that could damage sling.
- Running/driving over slings with a vehicle or other equipment.
- Synthetic slings are affected by some chemicals ranging from little to total degradation. Time, temperature and concentration factors affect the degradation. For specific applications, consult the manufacturer.

Synthetic slings can be damaged, abraded or cut as tension and compression between the sling, the connection points and the cargo develops. Surfaces in contact with the sling do not have to be very abrasive or have "razor" sharp edges in order to create the conditions for sling failure, Therefore, slings must ALWAYS be protected from being cut or damaged by corners, protrusions, or from contact with edges that are not smooth or well-rounded with materials sufficient for the intended purpose.

There are a variety of types of ways to protect slings from such damage. A qualified person might select and use appropriately engineered protectors/ softeners-commercially available products (e.g., sleeves, wear pads, corner protectors, etc.) specifically designed to protect slings from damage. A qualified person might also design and construct their own methods of protection so long as the sling is adequately protected from and/or kept off of the damaging edge surface.

4. ALWAYS USE SLINGS PROPERLY

When lifting loads, a trained, qualified and knowledgeable user must take into account the factors and issues addressed in this bulletin, as well as considering any other relevant factors not addressed herein. Among the factors related specifically to slings, users must perform several activities, including (but not limited to) those discussed in the following subsections.

Determine the weight of the load and make sure it does not exceed the sling's rated capacity or the capacity of any of the components of the rigging system. Users must also determine the load's center of gravity (CG) to make sure the rigging system used will be able to retain and control the load once lifted.

Select a sling having suitable characteristics for the type, size and weight of the load, the type of hitch and the environment. The sling must be securely attached to the load and rigged in a manner to provide for load control to prevent slipping, sliding and/or loss of the load. A trained, qualified and knowledgeable user must determine the most appropriate method of rigging to help ensure a safe lift and control of the load.

Avoid accelerating or decelerating the load too quickly (i.e. "shock loading"). Do not use slings to pull on stuck or snagged objects and do not use slings for towing purposes. A sling should only be used for lifting loads.

Categories	Issues/ Factors to Consider		
Environment	Wind Weather Visibility	Environmental temperature Object temperature Chemical conditions & Exposure	Ground stability Underground installations
Load	Weight Dimensions Center of Gravity	Attachment point integrity Susceptibility to crushing/ compression Loose parts that could fall from load	Combination loads Damaging surfaces / edges Structural stability (Bend / flex)
Equipment/ Lift	Single/ Multiple Cranes / Hoists Maximum / planned operating radius Allowable load Ratio of lift to allowable load.	Clearance to surrounding facilities Power lines and other environmental hazards Clearance between boom & lift Emergency/ contingency set down area	Equipment inspection Ensure a clear load path
Rigging	Sling selection Load control Lift point (over CG) Positive sling-to-load engagement	Coefficient of friction: sling to load Appropriate hitch for (CG and load control) Load is free to move and is not snagged Coordination of multiple slings	Suitable wear protection Sling capacity is adequate for angle and tension
Personnel	Area clear of unnecessary personnel Personnel are trained and qualified	Signals: Visual, audible, electronic, etc. Personnel away from load and other dangers	Pre-lift plan and meeting Tag lines / spotter requirements

5. MAKE SURE PERSONNEL ARE CLEAR OF LOADS AND ALERT TO RISKS

Even if your account for all of the factors/issues discussed in this Safety Bulletin, things can still go wrong.

Therefore, all personnel must stand clear of the lifted loads and never be under, on or near suspended loads.

When using slings, no part of the body should be placed between the sling and load, or between the sling and lifting hook. In addition, personnel must be alert to the potential for the sling to become snagged during a lift, never use a sling to pull on objects in a snagged or constrained condition.

6. PROPERLY STORE AND MAINTAIN SLINGS

In order to prevent damage to slings when not in use, you should store slings in a cool, dry and dark location. Slings should be stored in an area free from environmental or mechanical sources of damage, such as: weld spatter, splinters from grinding or machining, heat sources, chemical exposure, etc. Also, keep slings clean and free of dirt, grime and foreign materials.

If slings are cleaned, use only mild soap and water. Rinse sling thoroughly and allow to dry completely before placing the sling back into storage or use. Do not machine wash slings. Machine washing results in significant loss of sling strength.

Where to Find Additional Information

This bulletin does not provide you with all the information you need to know in order to be considered trained and knowledgeable about rigging and lifting loads, but it does provide important information about the use of slings within a rigging system. If you need more information about slings and rigging practices or your responsibilities according to regulations and standards, talk to your employer. You and your employer can consult a number of sources of information to help ensure that you are properly trained and knowledgeable when using slings, including (but not limited to):

- WSTDA-WS-1 – Recommended Standard Specification for Synthetic Slings
- ASME B30.9 – Synthetic Webbing Slings: Selections, use and maintenance
- OSHA 29 CFR 1910.184 – Slings
- OSHA Guidance on safe sling use (**http://www.osha.gov.dsg/guidance/slings/synth-web.html**)
- Manufacturer's Catalogue, manual, website, bulletins, rigging handbooks etc.
- Formal training provided by manufacturers or other outside entities.

WEB SLING & TIE DOWN ASSOCIATION MEMBER ™

Roundslings

Slinger Features

- ✔ The most flexible sling available
- ✔ The sling conforms to the load extremely well, and provides the best choker hold
- ✔ Hook and load contact points can be continually rotated to extend the service lift of the sling
- ✔ Longer sling life means cost reduction in sling purchases
- ✔ The load bearing fibre never comes into contact with the load
- ✔ Protection to the load from sling damage
- ✔ Seamless cover, no edges to wear out
- ✔ Wide variety of sling lengths and load capacities
- ✔ Adapts to all types, sizes, and load
- ✔ Lightweight, easy to rig, store, and clean
- ✔ Excellent resistance to ultra-violet light, rot, and mildew
- ✔ No loss of strength in water
- ✔ Only 3% elongation
- ✔ Maximum temperature exposure 194 °F
- ✔ No metal parts on the sling, will not rust
- ✔ Configurations

It is recommended to always use wear pads.
Product code: WPCPB

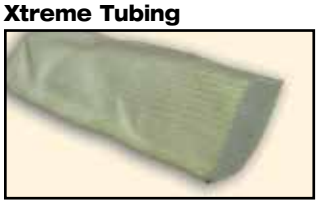
Slinger Construction

Slinger roundslings are constructed from a multiple of high tenacity polyester yarns in an endless or continuous loop. These load bearing yarns are protected by two woven polyester jackets. The polyester jackets act as a buffer between the load and the polyester yarn.

Wear pads

All Super Slingers shall be used with wear pads. Using wear pads will protect your investment of a high performance sling as well as lower risk of accidents or injuries. There are many options available with qualities varying from good to ultimate.

Xtreme Tubing



Xtreme wear pads provide the Ultimate protection against abrasion. These wear pads are specifically designed to be used on loads with sharp edges.

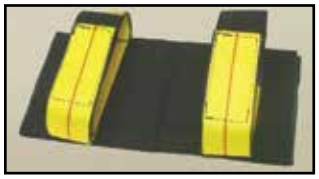
Armour Tubing

Armour wear pads are a great solution to abrasive surfaces. These wear pads will prolong the life of the sling.

Ballistic Nylon

Ballistic Nylon wear pads offer extensive protection to the sling.

Corner Wear Pad



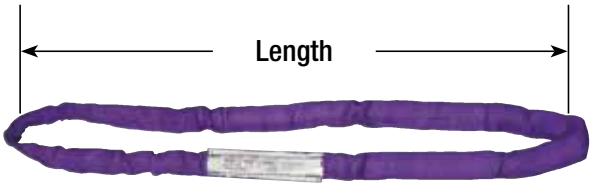
These wear pads are necessary when lifting around sharp corners. The bulky protection pad ensures that the sling will not be damaged.

Velcro Ties

Velcro ties hold the wear pad in place.

Slinger Polyester Roundsling

Code	Color Code	Working Load Limit (lbs.)						Minimum Length ft.	Diameter in.	Weight lbs./ft.
		Vertical	Choker	Basket 90°	Basket 60°	Basket 45°	Basket 30°			
SL 30	Purple	3,000	2,400	6,000	5,100	4,200	3,000	18"	.75	.25
SL 40	Black	4,000	3,200	8,000	6,900	5,600	4,000	18"	.80	.35
SL 60	Green	6,000	4,800	12,000	10,300	8,400	6,000	18"	.90	.40
SL 90	Yellow	9,000	7,200	18,000	15,500	12,700	9,000	2	1.00	.50
SL 120	Tan	12,000	9,600	24,000	20,700	16,900	12,000	3	1.25	.75
SL 140	Red	14,000	11,200	28,000	24,200	19,700	14,000	3	1.30	.85
SL 170	Orange	17,000	13,600	34,000	29,400	24,000	17,000	3	1.60	.95
SL 230	Blue	23,000	18,400	46,000	39,800	32,500	23,000	3	1.65	1.25
SL 260	Orange	26,000	20,800	52,000	45,000	36,700	26,000	3	1.75	1.45
SL 320	Grey	32,000	25,600	64,000	55,400	45,200	32,000	3	2.15	1.75
SL 400	Orange	40,000	32,000	80,000	69,200	56,500	40,000	4	2.45	2.25
SL 540	Brown	54,000	43,200	108,000	93,500	76,300	54,000	6	3.00	2.75
SL 680	Olive	68,000	54,400	136,000	117,700	96,100	68,000	8	3.25	3.60
SL 900	Black	90,000	72,000	180,000	155.800	127,200	90,000	8	3.75	4.10
Safety Factor 5:1										



WARNING Maximum rated capacities for new slings.
Do not exceed.

Eye & Eye Slinger Roundslings

Eye & eye roundslings are made with polyester tubing slid over both legs to create an eye each end.
For improved abrasion resistance we can supply ballistic nylon to create the Eye & Eye.
For the part number add a “B” on the end.
We can also cover the eyes in ballistic nylon. For ballistic eye add to part number - EB.

Code	Color	Working Load Limit lbs.				
		Vertical	Choker	Basket 90°	Basket 60°	Basket 45°
SL-30E	Purple	3,000	2,400	6,000	5,200	4,200
SL-40E	Black	4,000	3,200	8,000	6,900	5,600
SL-60E	Green	6,000	4,800	12,000	10,300	8,400
SL-90E	Yellow	9,000	7,200	18,000	15,500	12,600
SL-120E	Tan	12,000	9,600	24,000	20,600	16,800
SL-140E	Red	14,000	11,200	28,000	24,100	19,600
SL-170E	Orange	17,000	13,600	34,000	29,300	23,800
SL-230E	Blue	23,000	18,400	46,000	39,500	32,200
SL-260E	Orange	26,000	20,800	52,000	44,700	36,400
SL-320E	Grey	32,000	25,600	64,000	55,000	44,800
SL-400E	Orange	40,000	32,000	80,000	68,800	56,000
SL-540E	Brown	54,000	43,200	108,000	92,900	75,600
SL-680E	Olive	68,000	54,400	136,000	117,000	95,200
SL-900E	Black	90,000	72,000	180,000	155,000	126,000
Safety Factor 5:1						

WARNING Maximum rated capacities for new slings.
Do not exceed.

Slinger Bridle Slings ; 1 to 4 Legs

Code	Color	SIMPLE 90 ° Vertical (ANGLE °)	DOUBLE LEG BRIDLE (ANGLE °) 60 °	45 °	30 °	Alloy Hook TON	Master Link Diameter in. SINGLE	DOUBLE
SL-30	Purple	3,000	5,200	4,200	3,000	1.5	1/2	1/2
SL-40	Black	4,000	6,900	5,600	4,000	2	1/2	3/4
SL-60	Green	6,000	10,300	8,400	6,000	3	3/4	3/4
SL-90	Yellow	9,000	15,500	12,700	9,000	4.5	1	1
SL-120	Tan	12,000	20,700	16,900	12,000	7	1	1
SL-140	Red	14,000	24,200	19,700	14,000	7	1	1 1/4
SL-170	Orange	17,000	29,400	24,000	17,000	11	1 1/4	1 1/4
SL-230	Blue	23,000	39,800	32,500	23,000	15	1 1/2	1 1/2
SL-260	Orange	26,000	45,000	36,700	26,000	15	1 1/2	1 1/2
SL-320	Grey	32,000	55,400	45,200	32,000	22	1 3/4	1 3/4
SL-400	Orange	40,000	69,200	56,500	40,000	22	1 3/4	1 3/4
SL-540	Brown	54,000	93,500	76,300	54,000	30	2	2 1/4
SL-680	Olive	68,000	117,700	96,100	68,000	37	2 1/4	2 1/4
SL-900	Black	90,000	155,850	127,200	90,000	45	2 1/2	2-3/4

Safety Factor 5:1

Code	Color	SIMPLE 90 ° Vertical (ANGLE °)	THREE LEG BRIDLE (ANGLE °) 60 °	45 °	30 °	Alloy Hook TON	Master Link Diameter in. SINGLE	TRIPLE
SL-30	Purple	3,000	7,700	6,300	4,500	1.5	1/2	3/4
SL-40	Black	4,000	10,300	8,400	6,000	2	1/2	1
SL-60	Green	6,000	15,500	12,700	9,000	3	3/4	1
SL-90	Yellow	9,000	23,300	19,000	13,500	4.5	1	1 1/4
SL-120	Tan	12,000	31,100	25,400	18,000	7	1	1 1/2
SL-140	Red	14,000	36,300	29,600	21,000	7	1	1 3/4
SL-170	Orange	17,000	44,100	36,000	25,500	11	1 1/4	1 3/4
SL-230	Blue	23,000	59,700	48,700	34,500	15	1 1/2	2
SL-260	Orange	26,000	67,500	55,100	39,000	15	1 1/2	2 1/4
SL-320	Grey	32,000	83,100	67,800	48,000	22	1 3/4	2 1/4
SL-400	Orange	40,000	103,900	84,800	60,000	22	1 3/4	2 1/2
SL-540	Brown	54,000	140,200	114,500	81,000	30	2	2 3/4
SL-680	Olive	68,000	176,600	144,200	102,000	37	2 1/4	3 1/2
SL-900	Black	90,000	233,800	190,800	135,000	45	2 1/2	4

Safety Factor 5:1

Code	Color	SIMPLE 90 ° Vertical (ANGLE °)	FOUR LEG BRIDLE (ANGLE °) 60 °	45 °	30 °	Alloy Hook TON	Master Link Diameter in. SINGLE	QUAD.
SL-30	Purple	3,000	10,300	8,400	6,000	1.5	1/2	3/4
SL-40	Black	4,000	13,800	11,300	8,000	2	1/2	1
SL-60	Green	6,000	20,700	16,900	12,000	3	3/4	1
SL-90	Yellow	9,000	31,100	25,400	18,000	4.5	1	1 1/4
SL-120	Tan	12,000	41,500	33,900	24,000	7	1	1 1/2
SL-140	Red	14,000	48,500	39,500	28,000	7	1	1 3/4
SL-170	Orange	17,000	58,800	48,000	34,000	11	1 1/4	1 3/4
SL-230	Blue	23,000	79,600	65,000	46,000	15	1 1/2	2
SL-260	Orange	26,000	90,000	73,500	52,000	15	1 1/2	2 1/4
SL-320	Grey	32,000	110,800	90,400	64,000	22	1 3/4	2 1/4
SL-400	Orange	40,000	138,500	113,100	80,000	22	1 3/4	2 1/2
SL-540	Brown	54,000	187,000	152,700	108,000	30	2	2 3/4
SL-680	Olive	68,000	235,500	192,304	136,000	37	2 1/4	3 1/2
SL-900	Black	90,000	311,700	254,500	180,000	45	2 1/2	4

Safety Factor 5:1

Bridle roundslings are made specific to our customers requirements. Have them made with hooks or eyes on the end. Customer can supply specific hardware for us to make on the bridle sling.

WARNING

Maximum rated capacities for new slings.

Do not exceed.

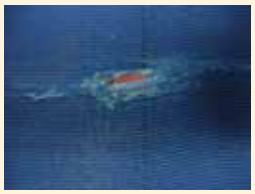
Properties

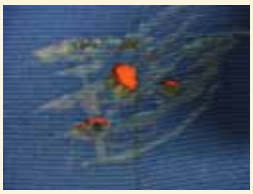
Armour Super Slinger are made with a heavy duty nylon cordura cover for maximum protection, and a red internal jacket for easy inspection. Armour Super Slingers are RFID enabled to allow for fast and accurate sling identification.

Crew holding a 60ft. 300,000 lbs. Super Slinger

Super Slinger can be 15 times lighter than steel

More and more engineers and riggers are specifying synthetic slings for their heavy lifts, instead of wire rope and chain. Using Super Slingers can reduce the amount of manpower needed for the job, as well as the hours it takes to do the lift. A SS-3000 sling has a Vertical capacity of 300,000 lbs, and at a 60 foot length the sling would weigh 320 lbs. To reach the same capacity in wire rope the slings would have to be 4-1/8" diameter would weigh 2000 lbs. That means the Super Slingers weigh only 16% of what the wire rope sling would weigh!





Red internal warning indicator
Take out of service

Elongation at WLL	1%
Melting Range	144-152°C
Density	Floats
Moisture Retension	1%
Yarn Abrasion Resistance	Excellent (yarn on yarn)
Cover Abrasion Resistance	Excellent
UV Resistance	Very Good
Loss Strength when wet	0%

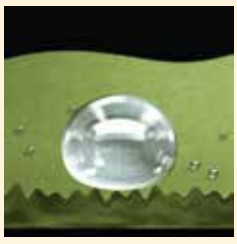
Nanotechnology

Dirt and grease stand no chance!

First ever roundsling with nanotechnology

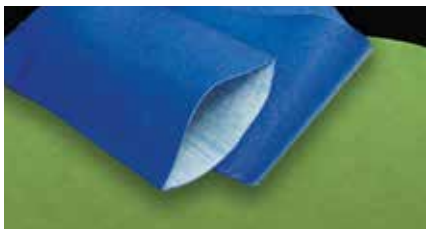
Function

The Classic Surface:
The contact surface of water drop or a particle of dirt with the textile, and therefore the lever of adhesion, is very large. As a result, water or dirt adheres to the textile.



The Nano or Surface:
Water drops particles of dirt lie only on the peaks of the nano particles, and therefore have a lower contact area. Adhesion is significantly reduced, water runs off, dirt is repelled or can simply be rinsed off.

Stays Clean



Benefits

Naturally Self-cleaning
Oil, dirt and dust do not adhere to the Nano surface and can be rinsed off with water.

Durable protective function
Due to the extremely high level of abrasion resistance, the Nano covers protective function is retained even with heavy-duty use, frequent washing or cleaning.

Armour Super Slingers

Code	Color	Working Load Limit lbs.					Approx. Diameter In.	Approx. Weight / ft pounds	Minimum connection hardware thickness in
		Vertical	Choker	Basket 90°	Basket 60°	Basket 45°			
SSA200	Blue	20,000	16,000	40,000	34,600	28,000	1 1/4	0.55	1 1/4
SSA250	Blue	25,000	20,000	50,000	43,200	35,000	1 1/4	0.65	1 3/8
SSA300	Blue	30,000	24,000	60,000	51,900	42,000	1 3/8	0.80	1 1/2
SSA400	Blue	40,000	32,000	80,000	69,200	56,000	1 3/4	1.10	1 1/2
SSA500	Blue	50,000	40,000	100,000	86,500	70,000	1 7/8	1.50	1 3/4
SSA600	Blue	60,000	48,000	120,000	103,800	84,000	2	1.60	2
SSA700	Blue	70,000	56,000	140,000	121,100	98,000	2 1/8	1.65	2 1/2
SSA850	Blue	85,000	68,000	170,000	147,000	119,000	2 1/2	1.85	2 1/2
SSA1000	Blue	100,000	80,000	200,000	173,000	140,000	2 3/4	2.20	2 1/2
SSA1250	Blue	125,000	100,000	250,000	216,200	175,000	3	3.00	3
SSA1500	Blue	150,000	120,000	300,000	259,500	210,000	3 1/4	3.35	3 1/2
SSA1750	Blue	175,000	140,000	350,000	302,700	245,000	3 1/2	4.00	3 1/2
SSA2000	Blue	200,000	160,000	400,000	346,000	280,000	3 3/4	4.35	Inquire
SSA2250	Blue	225,000	180,000	450,000	389,700	318,000	5	5.00	Inquire
SSA2500	Blue	250,000	200,000	500,000	433,000	353,000	5 1/2	5.85	Inquire
SSA2750	Blue	275,000	220,000	550,000	476,300	388,000	6	6.50	Inquire
SSA3000	Blue	300,000	240,000	600,000	519,600	424,000	6 1/2	7.15	Inquire
Safety Factor 5:1									

WARNING Maximum rated capacities for new slings.

Do not exceed.

Roundsling Inspection criteria

It is important to inspect your your roundslings after purchase.

Types of inspection

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

B. **Frequent Inspection** - This inspection should be conduction by the person handling the sling each time the sling is used.

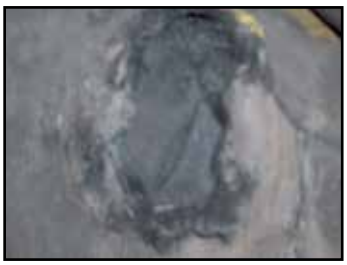
C. **Periodic Inspection** - This inspection shall be conducted by designated personnel. Frequency of inspection should be based on; Frequency of roundsling use, Severity of service conditions, experience gained on the service life of roundslings used in similar applications. Inspections should be conducted at least annually.

Remove the sling from service if any of the following is visible:

- ✔ If sling rated capacity or sling material identification is missing or not legible
- ✔ Acid or alkalis burns
- ✔ Melting, charring or weld spatters on any part of the roundsling
- ✔ Holes, tears, cuts, snags or embedded particles
- ✔ Broken or worn stitching in the cover, that exposes core yarns
- ✔ Core yarns are broken or damaged during use
- ✔ Knots in any part of the roundsling
- ✔ Excessive pitting, or corrosion, or cracked, or distorted, or broken fittings
- ✔ Any other visible damage that causes doubt as to the strength of the sling

Exposed load bearing yarns

Seam of cover opening



Melted or Charred areas

Inspection Records

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

Repair of Roundslings

There shall be no repairs of load bearing fibers. Repairs to the protective covers will be done by the original manufacturer. All repaired polyester roundslings shall be proof tested to a minimum of 2 times rated vertical capacity.

Steel Slingers

Steel Slingers are manufactured from multiple galvanized cables for strength, extreme flexibility and heat resistance, and then covered in a jacket for high abrasion resistance.

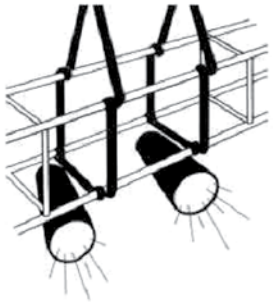
Code	Color	Working Load Limit lbs.					Approx. Diameter In.	Approx. Weight / ft. Pounds
		Vertical	Choker	Basket 90°	Basket 60°	Basket 45°		
STL 30	BLACK	3,000	2,400	6,000	5,200	4,200	0.75	0.30
STL 40	BLACK	4,000	3,200	8,000	6,900	5,600	0.80	0.40
STL 60	BLACK	6,000	4,800	12,000	10,300	8,400	0.90	0.45
Safety Factor 5:1								

Available Options

Velcro inspection window

Clear inspection window

Inspection area under tag, where wires are easily checked for damage.



Features

- ✔ High heat resistance 400°F
- ✔ Excellent flexibility
- ✔ High abrasion resistance (longer sling life)
- ✔ Made for stage rigging overhead suspension
- ✔ Optional inspection window to inspect all inside wires

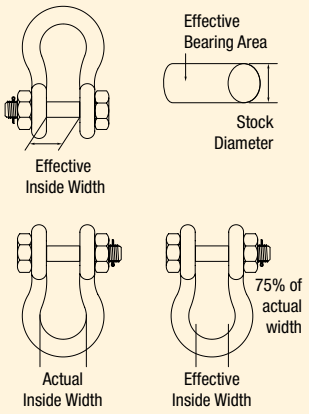
⚠ **WARNING** Maximum rated capacities for new slings.

⚠ Do not exceed.

Roundsling Connection Points

Connection hardware for roundslings should be selected such that it is sized that the bearing stress value at the connection does not exceed 7,000 lbs/in² during sling loading.

1. **Contact width applicable**



Two Options

a. **Connection to Flat-bottom Surfaced Hardware** — includes pins, bolts and trunnions. The value of the effective contact width is equal to the opening width or spread of the sling connection area.

b. **Connection to Round-bottom Surfaced Hardware** — includes links, hooks, or bow end of shackles. The value of the effective contact width is the inside opening width of the hardware multiplied by a factor of .75 equal tot the opening width or spread of the sling connection area.

2. **Load Bearing Area =**

Hardware Thickness or Stock Diameter x Effective Contact Width

3. **Bearing Stress =**

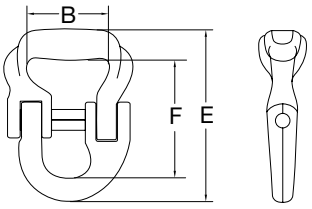
Sling Load Value (in lbs) ÷ Load Bearing Area

Example :
A SL400, rated at 40,000 lbs in a Vertical hitch, is connected in a Vertical hitch using the rounded end of a 25 Ton shackle that has a stock diameter of 2.25 inches, and an inside width of 5 inches. Is this shackle acceptable ?

Since the bearing surface of the shackle is rounded;

1. **Effective Contact Width**
   = 0. 75 x Inside Width (5")
   = 3.75"
2. **Load Bearing Area**
   = Shackle stock Diameter (2.25") x Effective Width (3.75")
   = 8.45 po²
3. **Bearing Stress Value**
   = Vertical rating (40,000 lbs) ÷ Load Bearing Area (8.45 in²)
   = 4,733 lbs/in²

Beacause the Bearing Stress Value is less than 7,000 lbs/in², this shackle is acceptable.



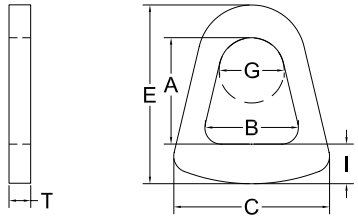
Sling Connectors — Alloy

Code	Material Width in.	Diameter to Connect Lok-A-Loy size in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.		
					B	E	F
S237-002038	2	3/8	5,000	1.14	2.00	4.20	2.92
S237-003034	3	3/4	15,000	4.75	2.75	6.49	4.46
Safety Factor 5:1							

Steel Triangles (zinc plated*)

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

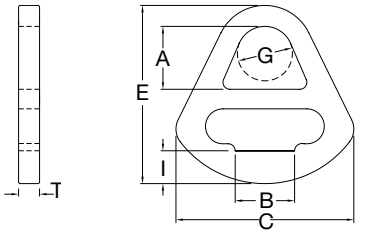
* Better corrosion resistance



Steel Chokers (zinc plated*)

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

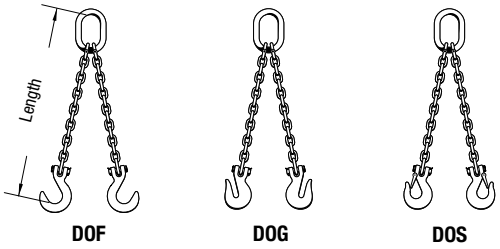
* Better corrosion resistance



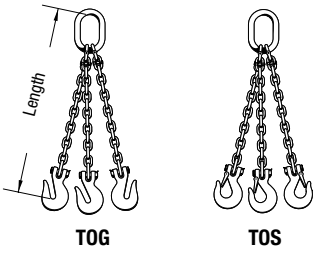
Chain Slings

SINGLE LEG

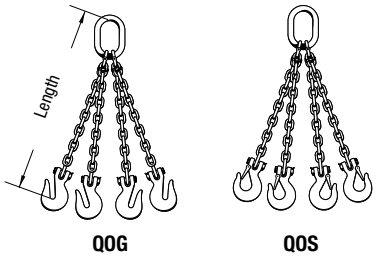
DOUBLE LEGS



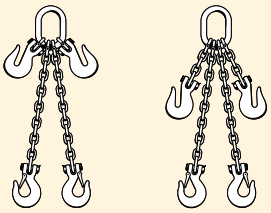
THREE LEGS



FOUR LEGS



Adjustables chain slings also available



Ben-Mor
OFFER DIFFERENT CHAIN SLINGS SERVICES :
- INSPECTION
- CLEANING
- CERTIFICATION

CERTIFIED ISO 9001

Environmental considerations

WARNING

Acidic chemicals and atmospheres
Alloy chain and Grade 80 and Grade 100 components must not be used in acidic conditions.

Extreme temperature conditions
The environmental temperature affects the Working Load Limit of Grade 80 and Grade 100 chain slings as shown in the chart beside :

Grade 80 and Grade 100 alloy chain slings must not be used at temperatures outside the ranges in the above chart.

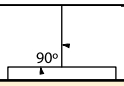
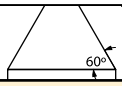
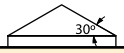
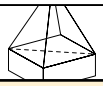
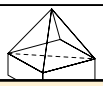
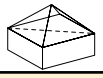
Use
- Never make knots with a lifting sling ;
- Do not exceed specified Working Load Limit (W.L.L.).

Temperature of chain (°F)	Working load limit while at temperature [1]	Permanent reduction in working load limit [2]
< -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

[1] While chain is at temperature shown in first column.

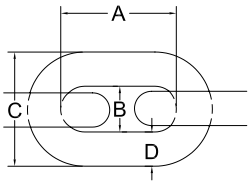
[2] When chain is used at room temperature after having been subjected to temperatures shown in first column.

Chain Slings Certified — Grade 100

Chain Diameter in.	Working Load Limit (lbs.)						
	Simple leg 90 °	Double legs 60 °	Double legs 45 °	Double legs 30 °	Three/Four legs 60 °	Three/Four legs 45 °	Three/Four legs 30 °
							
9/32	4,300	7,400	6,100	4,300	11,200	9,100	6,400
5/16	5,700	9,900	8,100	5,700	14,800	12,100	8,500
3/8	8,800	15,200	12,400	8,800	22,900	18,700	13,200
1/2	15,000	26,000	21,200	15,000	39,000	31,800	22,500
5/8	22,600	39,100	32,000	22,600	58,700	47,900	33,900
3/4	35,300	61,100	49,900	35,300	91,700	74,900	53,000
Safety Factor 4:1							

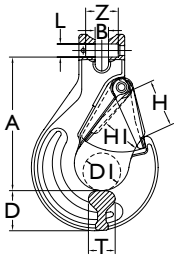
Alloy Lifting Chain Grade 100 (self colored)

Code	Diameter in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.		
				A	B	D
CH100SC-932	9/32	4,300	77	0.87	0.41	0.28
CH100SC-516	5/16	5,700	112	1.01	0.48	0.34
CH100SC-038	3/8	8,800	152	1.23	0.56	0.40
CH100SC-012	1/2	15,000	279	1.57	0.75	0.53
CH100SC-058	5/8	22,600	374	1.93	0.87	0.63
CH100SC-034	3/4	35,300	600	2.42	1.13	0.82
Safety Factor 4:1						



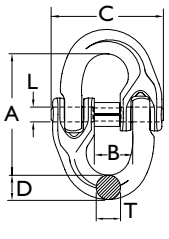
Clevis Sling Hooks With Latch (alloy Gr. 100)

Code	Diameter in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.						
				A	B	D	D1	H	H1	L x Z
CSH100L-932BM	9/32 - 5/16	5,700	1.35	3.72	0.35	1.10	0.98	1.26	1.02	0.38 x 0.91
CSH100L-038BM	3/8	8,800	2.47	4.29	0.45	1.30	1.18	1.54	1.22	0.49 x 1.16
CSH100L-012BM	1/2	15,000	4.52	5.32	0.57	1.58	1.50	1.89	1.54	0.63 x 1.46
CSH100L-058BM	5/8	22,600	7.50	6.10	0.69	1.85	1.73	2.17	1.77	0.79 x 2.05
CSH100L-034BM	3/4	35,300	13.80	7.21	0.91	1.97	2.05	2.40	2.09	0.94 x 2.87
CSH100L-078BM	7/8	42,700	19.32	8.35	0.97	2.40	2.36	2.80	2.40	1.06 x 2.80
Safety Factor 4:1										



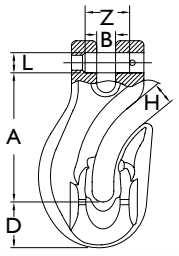
Hammerlock Type Connecting Links (alloy Gr. 100)

Code	Diameter in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.				
				A	B	D	L x C	T
A337-932GR100	9/32	4,300	0.26	2.01	0.67	0.39	0.24 x 1.85	0.35
A337-516GR100	5/16	5,700	0.42	2.42	0.71	0.45	0.25 x 2.09	0.39
A337-038GR100	3/8	8,800	0.75	2.84	0.89	0.50	0.31 x 2.48	0.50
A337-012GR100	1/2	15,000	1.61	3.47	1.08	0.75	0.39 x 3.11	0.66
A337-058GR100	5/8	22,600	3.15	4.06	1.30	0.83	0.55 x 4.17	0.83
A337-034GR100	3/4	35,300	5.40	4.53	1.63	1.16	0.63 x 4.84	0.93
A337-078GR100	7/8	42,700	7.08	5.32	1.91	1.14	0.63 x 5.67	1.06
Safety Factor 4:1								

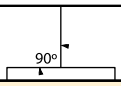
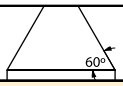
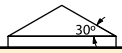


Clevis Cradle Grab Hooks (alloy Gr. 100)

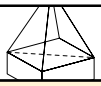
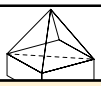
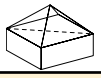
Code	Diameter in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.				
				A	B	D	H	L x Z
CGH100-932BM	9/32	5,700	1.32	2.60	0.35	0.93	0.37	0.38 x 0.91
CGH100-038BM	3/8	8,800	2.51	3.23	0.45	1.14	0.47	0.49 x 1.16
CGH100-012BM	1/2	15,000	5.73	4.21	0.59	1.52	0.61	0.63 x 1.46
CGH100-058BM	5/8	22,600	10.58	5.20	0.71	1.89	0.73	0.79 x 2.05
CGH100-034BM	3/4	35,300	15.88	6.10	0.91	2.22	0.87	0.94 x 2.87
CGH100-078BM	7/8	42,700	20.95	6.71	0.98	2.44	1.02	1.06 x 2.80
Safety Factor 4:1								



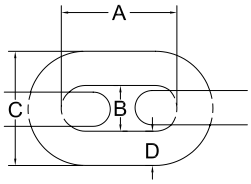
Chain Slings, Certified — Grade 80

Chain Diameter in.	Working Load Limit (lbs.)					
	Single leg 90 °	Double legs 60 °	Double legs 45 °	Double legs 30 °	Oblong* Master Link	
					SINGLE	DOUBLE
7/32	2,100	3,600	2,900	2,100	A342-012	A342-012
9/32	3,500	6,100	4,900	3,500	A342-012	A342-058
5/16	4,500	7,700	6,300	4,500	A342-012	A342-058
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	49,000	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	102,000	72,300	A342-002	A342-214
Safety Factor 4:1						

*See dimensions on page 85

Chain Diameter in.	Working Load Limit (lbs.)			
	Three/Four legs 60 °	Three/Four legs 45 °	Three/Four legs 30 °	Oblong* Assemblies
				
7/32	5,400	4,400	3,100	SUB-012
9/32	9,100	7,400	5,200	SUB-034
5/16	11,600	9,500	6,700	SUB-001
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
Safety Factor 4:1				

*See dimensions on page 85



Alloy Lifting Chain Grade 80 Black Oxide

Grade 80 alloy chain is used for overhead lifting.

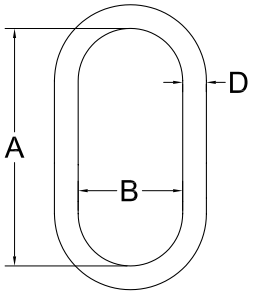
Code	Diameter in.	Working Load Limit lbs.	Weight / 100 ft. lbs.	Dimensions in.			
				A	B Min	C Max	D
CH80SC–732	7/32	2,100	47.0	.680	.319	.787	.217
CH80SC–932	9/32	3,500	73.8	.826	.375	.992	.276
CH80SC–516	5/16	4,500	93.9	.945	.430	1.134	.315
CH80SC–038	3/8	7,100	147.5	1.181	.531	1.417	.394
CH80SC–012	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							

WARNING Maximum rated capacities for new slings.

Do not exceed.

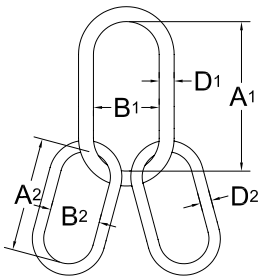
Master Oblong Links (alloy steel)

Code	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.		
			A	B	D
A342-012	7,000	0.89	5	2 1/2	1/2
A342-058	9,000	1.63	6	3	5/8
A342-034	12,300	2.25	5 1/2	2 3/4	3/4
A342-001	24,360	5.00	7	3 1/2	1
A342-114	39,130	9.75	8 3/4	4 3/8	1 1/4
A342-112	54,300	17.12	10 1/2	5 1/4	1 1/2
A342-134	84,900	26.12	12	6	1 3/4
A342-002	102,600	41.12	14	7	2
A342-214	143,100	54.80	16	8	2 1/4
A342-212	160,000	71.60	16	8	2 1/2
A342-234	216,900	87.70	16	9 1/2	2 3/4
Safety Factor 5:1					



Welded Master Link Assemblies

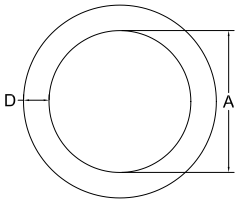
Code	Working Load Limit lbs. (at 60°)	Weight / ea. lbs.	A1	A2	B1	B2	D1	D2
SUB-012	5,460	1.0	5	1 1/8	2 1/2	5/8	1/2	11/32
SUB-034	9,100	2.6	5 1/2	1 9/16	2 3/4	7/8	3/4	15/32
SUB-001	18,400	6.1	7	2 1/4	3 1/2	1 1/4	1	21/32
SUB-114	31,200	13.3	8 3/4	3 1/8	4 3/8	1 3/4	1 1/4	29/32
SUB-112	47,000	24.3	10 1/2	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								



Weldless Master Rings (carbon steel)

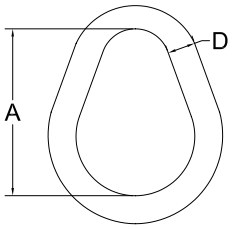
Code	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.	
			A	D
S643-078004	7,200	2.7	4	7/8
S643-078512	5,600	3.4	5 1/2	7/8
S643-001004	10,800	3.5	4	1
S643-118006	10,400	6.5	6	1 1/8
S643-114005	17,000	7.0	5	1 1/4
S643-138006	19,000	10.6	6	1 3/8
Safety Factor 6:1				

Federal Specification : RR-C-271D

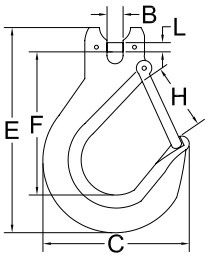


Pear Shape Weldless Links (galvanized carbon steel)

Code	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.	
			A	D
G341-038	1,800	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				

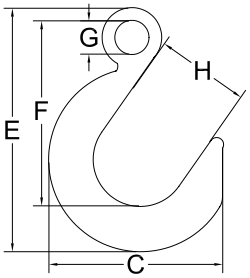


Clevis Sling Hooks with latch (alloy Gr. 80)



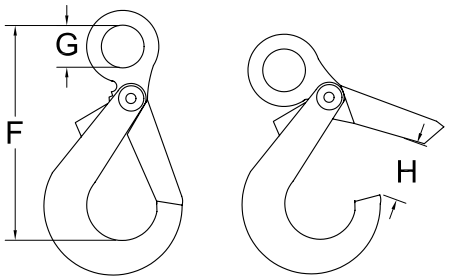
Code	For Chain Size in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.					
				B	C	E	F	H	L
CSH80L-932	9/32 - 5/16	4,500	0.6	.35	3.52	5.34	3.30	1.00	.39
CSH80L-038	3/8	7,100	1.9	.47	4.36	6.27	4.05	1.32	.49
CSH80L-012	1/2	12,000	4.3	.64	5.12	7.55	4,91	1.55	.63
CSH80L-058	5/8	18,100	5.2	.75	6.28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



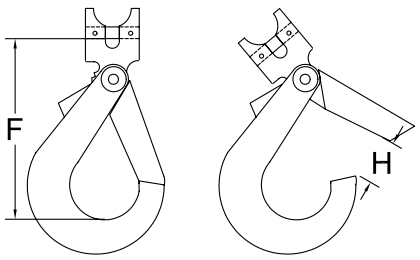
Code	For Chain Size in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.				
				C	E	F	G	H
EFH80-932	9/32 - 5/16	4,500	2.4	4.75	6.45	4.75	.63	2.50
EFH80-038	3/8	7,100	4.5	5.75	7.88	5.75	.75	3.00
EFH80-012	1/2	12,000	7.1	6.75	9.38	6.88	1.00	3.50
EFH80-058	5/8	18,100	11.6	7.81	10.97	8.06	1.25	4.00
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	11/4	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)



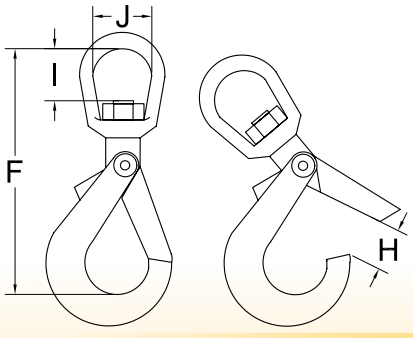
Code	For Chain Size in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.		
				F	G	H
S316-732	7/32	2,500	0.9	4.33	0.83	1.14
S316-014	1/4 - 5/16	4,500	1.8	5.35	0.98	1.38
S316-038	3/8	7,100	3.2	6.57	1.26	1.77
S316-012	1/2	12,000	6.0	8.15	1.56	2.13
S316-058	5/8	18,100	12.8	9.92	2.05	2.44
Safety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

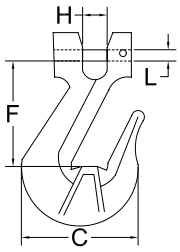
Swivel Self Locking Hooks (Gr. 80)

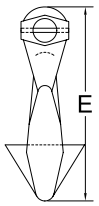


Code	For Chain Size in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.			
				F	H	I	J
S326-732	7/32	2,500	1.26	4.48	1.14	0.67	1.26
S326-014	1/4 - 5/16	4,500	2.62	5.94	1.38	0.79	1.42
S326-038	3/8	7,100	4.70	6.75	1.77	1.06	1.63
S326-012	1/2	12,000	8.64	8.23	2.09	1.70	1.81
S326-058	5/8	18,100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

Clevis Cradle Grab Hooks (alloy Gr. 80)

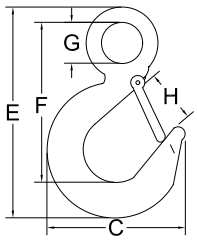
Code	For Chain Size in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.				
				C	E	F	H	L
CGH80-932	9/32 - 5/16	4,500	.46	1.95	3.47	2.06	.38	.35
CGH80-038	3/8	7,100	1.23	2.80	4.85	2.83	.54	.50
CGH80-012	1/2	12,000	2.40	3.69	6.45	3.67	.59	.63
CGH80-058	5/8	18,100	4.17	4.16	6.75	4.00	.74	.78
CGH80-034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

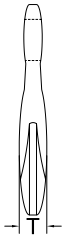




Eye Sling Hooks with latch (alloy Gr. 80) – Latch kit available

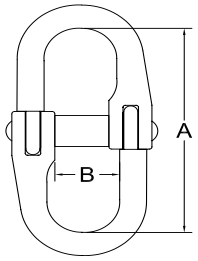
Code	For Chain Size in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.					
				C	E	F	G	H	T
ESH80L-732	7/32	2,100	.7	3.31	4.30	3.06	.75	1.25	.78
ESH80L-932	9/32 - 5/16	4,500	1.1	3.50	5.25	3.75	.75	1.19	.73
ESH80L-038	3/8	7,100	1.9	4.34	6.64	4.78	.94	1.44	.95
ESH80L-012	1/2	12,000	4.5	5.50	8.16	5.69	1.13	1.78	1.17
ESH80L-058	5/8	18,100	7.3	6.34	9.66	6.50	1.31	2.03	1.44
ESH80L-034	3/4	28,300	11.4	7.83	11.38	7.81	1.50	2.50	1.69
ESH80L-078	7/8	34,200	18.1	8.59	12.72	8.75	1.69	2.78	1.94
ESH80L-001	1	47,700	22.6	9.59	14.23	9.88	1.88	3.13	2.14
ESH80L-114	1 1/4	72,000	36.0	11.56	17.00	11.50	2.31	3.88	2.62
Safety Factor 4:1									





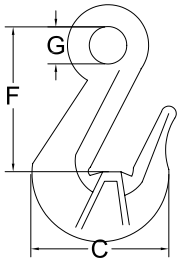
Hammerlock Type Connecting Links (alloy Gr 80)

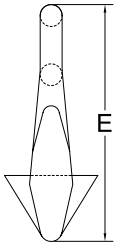
Code	For chain diameter in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.	
				A	B
A337-732	7/32	2,100	0,20	1.75	0.58
A337-932	9/32	3,500	0.23	2.22	0.77
A337-516	5/16	4,500	0.33	2.22	0.77
A337-038	3/8	7,100	0.65	2.71	0.98
A337-012	1/2	12,000	1.50	3.35	1.17
A337-058	5/8	18,100	2.60	4.17	1.35
A337-034	3/4	28,300	3.80	4.61	1.64
A337-078	7/8	34,200	6.30	5.44	1.96
A337-001	1	47,700	9.30	6.10	2.31
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 in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions 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							





Chain Sling Inspection criteria

It is important to inspect your chain slings after purchase.

Types of inspection

A. **Initial Inspection** - Before any new chain sling is placed in service, it shall be inspected by a designated competent person to ensure that the correct wire rope sling is being used, as well as to determine that the roundsling meets the requirements of this specification.

B. **Frequent Inspection** - This inspection should be conduction by the person handling the sling each time the sling is used.

C. **Periodic Inspection** - This inspection shall be conducted by designated personnel. Frequency of inspection should be based on; Frequency of wire rope sling use, Severity of service conditions, experience gained on the service life of wire rope slings used in similar applications. Inspections should be conducted at least annually.

Remove the sling from service if any of the following is visible:

- ✔ If sling rated capacity or sling material identification is missing or not legible
- ✔ Cracks or breaks
- ✔ Excessive wear, nicks, or gouges
- ✔ Stretched chain links or components
- ✔ Bent, twisted, or deformed chain links or components
- ✔ Evidence of heat damage
- ✔ Excessive pitting, or corrosion
- ✔ Lack of ability of chain or components to hinge freely
- ✔ Weld splatter
- ✔ Any other visible damage that causes doubt as to the strength of the sling

Pitting & corrosion

Deformed components

Inspection Records

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

Repair of Chain Slings

Cracked, broken, or bent chain links shall not be repaired, they shall be replaced. All repaired chain slings must be proof tested to twice the Vertical rated capacity.

In house testing

Ben-Mor has a ROBERTS **350,000 lbs, 60 FT** horizontal test bed. We can offer in-house testing & certification. All slings tested come complete with the proof test certificate, and are logged on-line with EasyTrack.

Batch testing

All of our slings are batch tested to ensure that we are meeting our rated capacities. Our slings are manufactured to meet the criteria of Web Sling & Tie Down Association, ASME B30.9, and OSHA.


Certificate of Testing

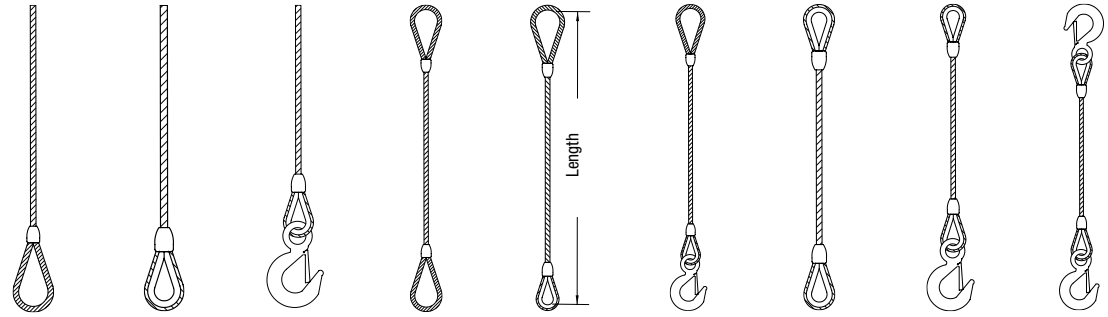
Vertical Application 90 Degrees

Test Results
☐ Acceptable
☑ Not Acceptable

Conducted by:

Re-Certification

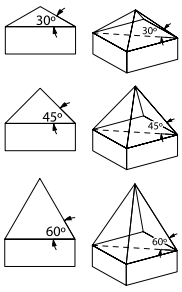
Send in for re-certification; slings, hooks, ropes, chain hoists, hoist rings, hardware. With all proof tests, and destruction tests, you will receive a printed certificate.

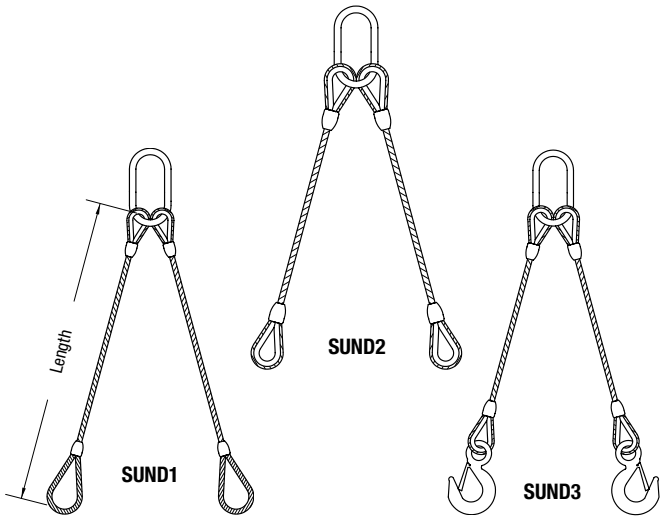


SUNS01 SUNS02 SUNS03 SUNS11 SUNS12 SUNS13 SUNS22 SUNS23 SUNS33

Wire Rope Slings Single Leg, 6 x 19, 6 x 26, 6 x 36, 6 x 41 Steel Core EIPS/IPS

Dia. in.	Standard loops Inside Dim. in.	Hooks Capacity TON	IPS Working Load Limit lbs.						EIPS Working Load Limit lbs.					
			Vertical	Choker	Basket				Vertical	Choker	Basket			
			90 °	90 °	90 °	60 °	45 °	30 °	90 °	90 °	90 °	60 °	45 °	30 °
1/4	2 x 4	1.0	1,100	800	2,200	1,900	1,500	1,100	1,300	960	2,600	2,200	1,820	1,300
5/16	3 x 6	1.0	1,700	1,200	3,400	2,900	2,400	1,700	2,000	1,480	4,000	3,400	2,800	2,000
3/8	3 x 6	1.5	2,400	1,800	4,800	4,100	3,300	2,400	2,800	2,200	5,800	5,000	4,000	2,800
7/16	4 x 8	2.0	3,400	2,500	6,800	5,900	4,800	3,400	3,800	2,800	7,800	6,800	5,400	3,800
1/2	4 x 8	3.0	4,400	3,200	8,800	7,600	6,200	4,400	5,000	3,800	10,200	8,800	7,200	5,000
9/16	5 x 10	4.5	5,540	4,030	11,080	9,570	7,810	5,540	6,400	4,800	12,800	10,880	8,960	6,400
5/8	5 x 10	4.5	6,800	5,000	13,600	11,700	9,600	6,800	7,800	5,800	15,600	13,600	11,000	7,800
3/4	6 x 12	7.0	9,800	7,200	19,600	16,900	13,800	9,800	11,200	8,200	22,000	19,400	15,800	11,200
7/8	7 x 14	11.0	13,200	9,600	26,400	22,800	18,600	13,200	15,200	11,200	30,000	26,000	22,000	15,200
1	8 x 16	11.0	17,000	12,600	34,000	29,400	24,000	17,000	19,600	14,400	40,000	34,000	28,000	19,600
1 1/8	9 x 18	15.0	20,000	15,800	40,000	34,600	28,200	20,000	24,000	18,200	48,000	42,000	34,000	24,000
1 1/4	10 x 20	15.0	26,000	19,400	52,000	45,000	36,700	26,000	30,000	22,000	60,000	52,000	42,000	30,000
1 3/8	11 x 22	22.0	30,000	24,000	60,000	51,900	42,400	30,000	36,000	26,000	72,000	62,000	50,000	36,000
1 1/2	12 x 24	22.0	36,000	28,000	72,000	62,300	50,900	36,000	42,000	32,000	84,000	74,000	60,000	42,000
1 3/4	14 x 28	37.0	48,900	36,600	97,800	85,600	69,800	48,900	56,000	42,000	114,000	98,000	80,000	56,000
2	16 x 32	45.0	64,000	48,000	128,000	110,000	90,000	64,000	74,000	56,000	146,000	126,000	104,000	74,000
2 1/4	18 x 36	45.0	N/A	N/A	N/A	N/A	N/A	N/A	88,000	66,000	176,000	152,000	124,000	88,000
2 1/2	20 x 40	60.0	N/A	N/A	N/A	N/A	N/A	N/A	108,000	81,000	216,000	187,000	152,000	108,000
Safety Factor 5:1														





Wire Rope Slings Double Legs, 6 x 19, 6 x 26, 6 x 36, 6 x 41 Steel Core EIPS/IPS

Dia. in.	Oblong* Master Link	Hooks Capacity TON	IPS Working Load Limit lbs.			EIPS Working Load Limit lbs.		
			60 °	45 °	30 °	60 °	45 °	30 °
1/4	A342-012	1.0	1,900	1,500	1,100	2,200	1,820	1,300
3/8	A342-058	1.5	4,100	3,300	2,400	5,000	4,000	2,800
1/2	A342-001	3.0	7,600	6,200	4,400	8,800	7,200	5,000
5/8	A342-114	4.5	11,700	9,600	6,800	13,600	11,000	7,800
3/4	A342-114	7.0	16,900	13,800	9,800	19,400	15,800	11,200
7/8	A342-114	11.0	22,800	18,600	13,200	26,000	22,000	15,200
1	A342-112	11.0	29,400	24,000	17,000	34,000	28,000	19,600
1 1/8	A342-112	15.0	34,600	28,200	20,000	42,000	34,000	24,000
1 1/4	A342-134	15.0	45,000	36,700	26,000	52,000	42,000	30,000
1 3/8	A342-002	22.0	51,900	42,400	30,000	62,000	50,000	36,000
1 1/2	A342-002	22.0	62,300	50,900	36,000	74,000	60,000	42,000
1 3/4	A342-002	37.0	81,600	66,600	47,100	98,000	80,000	56,000
2	A342-214	45.0	110,000	90,500	64,000	126,000	104,000	74,000
Safety Factor 5:1								

* See dimensions on page 85

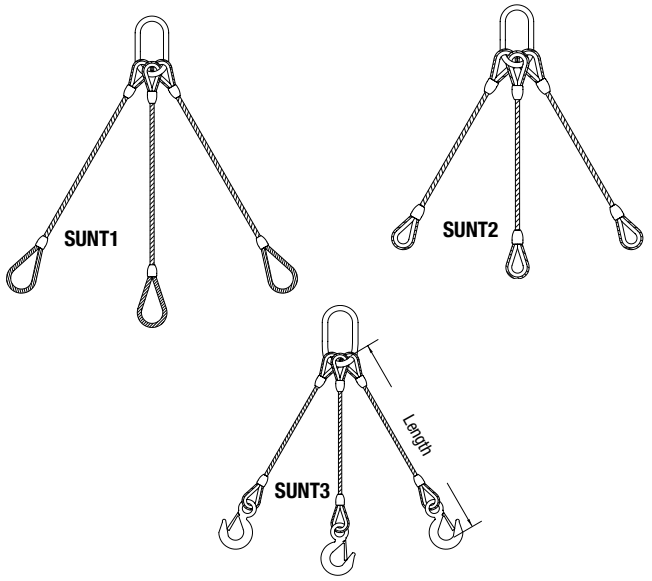
WARNING Maximum rated capacities for new slings.

Do not exceed.

Wire Rope Slings Three Legs, 6 x 19, 6 x 26, 6 x 36, 6 x 41 Steel Core EIPS/IPS

Dia. in.	Oblong * Master Link	Hooks Capacity TON	IPS Working Load Limit lbs.			EIPS Working Load Limit lbs.		
			60 °	45 °	30 °	60 °	45 °	30 °
1/4	A342-058	1.0	2,900	2,300	1,600	3,400	2,800	1,940
3/8	A342-001	1.5	6,200	5,000	3,600	7,400	6,000	4,400
1/2	A342-114	3.0	11,400	9,300	6,600	13,200	10,800	7,600
5/8	A342-114	4.5	17,600	14,400	10,200	20,000	16,600	11,800
3/4	A342-112	7.0	25,400	20,700	14,700	30,000	24,000	16,800
7/8	A342-134	11.0	34,200	27,900	19,800	40,000	32,000	22,000
1	A342-002	11.0	44,100	36,000	25,500	52,000	42,000	30,000
1 1/8	A342-214	15.0	51,900	42,400	30,000	62,000	52,000	36,000
1 1/4	A342-212	15.0	67,500	55,100	39,000	76,000	62,000	44,000
1 3/8	A342-234	22.0	77,900	63,600	45,000	92,000	76,000	54,000
1 1/2	A342-234	22.0	93,500	76,300	54,000	110,000	90,000	64,000
1 3/4	A342-234	37.0	126,000	103,000	72,900	148,000	120,000	84,000
2	A342-234	45.0	166,000	135,000	96,000	190,000	156,000	110,000
Safety Factor 5:1								

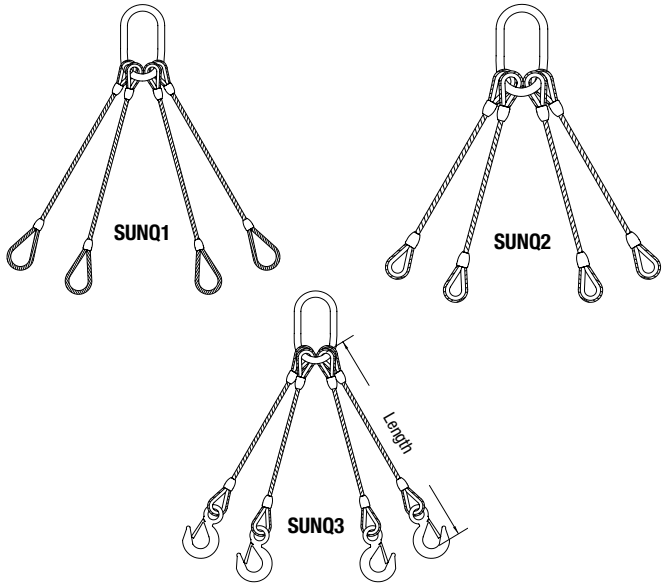
* See dimensions on page 85



Wire Rope Slings Four Legs, 6 x 19, 6 x 26, 6 x 36, 6 x 41 Steel Core EIPS/IPS

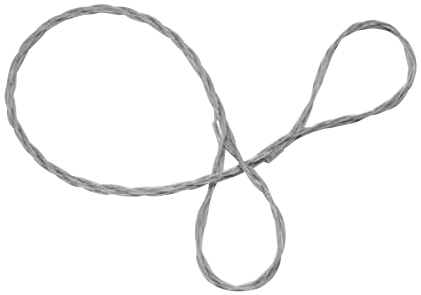
Dia. in.	Oblong * Master Link	Hooks Capacity TON	IPS Working Load Limit lbs.			EIPS Working Load Limit lbs.		
			60 °	45 °	30 °	60 °	45 °	30 °
1/4	A342-058	1.0	3,800	3,100	2,200	4,400	3,600	2,600
3/8	A342-001	1.5	8,300	6,700	4,800	10,000	8,200	5,800
1/2	A342-114	3.0	15,200	12,400	8,800	17,600	14,200	10,200
5/8	A342-114	4.5	23,500	19,200	13,600	28,000	22,000	15,600
3/4	A342-112	7.0	33,900	27,700	19,600	38,000	32,000	22,000
7/8	A342-134	11.0	45,700	37,300	26,400	52,000	42,000	30,000
1	A342-002	11.0	58,800	48,000	34,000	68,000	56,000	40,000
1 1/8	A342-214	15.0	69,200	56,500	40,000	84,000	68,000	48,000
1 1/4	A342-212	15.0	90,000	73,500	52,000	102,000	84,000	60,000
1 3/8	A342-234	22.0	103,900	84,800	60,000	124,000	100,000	72,000
1 1/2	A342-234	22.0	124,700	101,800	72,000	146,000	120,000	84,000
1 3/4	A342-234	37.0	168,000	137,000	97,000	196,000	160,000	114,000
Safety Factor 5:1								

* See dimensions on page 85



Wire Rope Slings, extra-flexibles "Solflex"

Sling Diameter	Working Load Limit lbs.					
	Vertical	Choker	Basket 90 °	Basket 60 °	Basket 45 °	Basket 30 °
3/8	1,500	1,000	3,000	2,500	2,100	1,500
1/2	2,600	1,800	5,200	4,500	3,600	2,600
5/8	4,000	2,800	8,000	6,900	5,600	4,000
3/4	6,000	4,200	12,000	10,300	8,400	6,000
7/8	8,000	5,600	16,000	13,800	11,300	8,000
1	10,000	7,000	20,000	17,300	14,100	10,000
1 1/4	14,000	9,800	28,000	24,200	19,700	14,000
1 1/2	20,000	14,000	40,000	34,600	28,200	20,000
1 3/4	32,000	22,400	64,000	55,400	45,200	32,000
2	40,000	28,000	80,000	69,200	56,500	40,000
Safety Factor 5:1						



Wire Rope Inspection

It is important to inspect your wire slings after purchase.

TYPES OF INSPECTION

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

B. **Frequent Inspection** - This inspection should be conduction by the person handling the sling each time the sling is used.

C. **Periodic Inspection** - This inspection shall be conducted by designated personnel. Frequency of inspection should be based on; Frequency of wire rope sling use, Severity of service conditions, experience gained on the service life of wire rope slings used in similar applications. Inspections should be conducted at least annually.

Remove the sling from service if any of the following is visible:

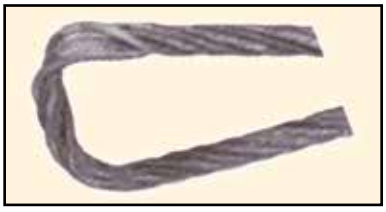
- ✔ If sling rated capacity or sling material identification is missing or not legible
- ✔ Ten broken wires in one rope lay or five broken wires in one strand in one rope lay
- ✔ Severe localized abrasion or scraping
- ✔ Kinking, crushing, birdcaging, or any other damage resulting in damage to the rope structure
- ✔ Evidence of heat damage
- ✔ Severe corrosion of the rope
- ✔ Excessive pitting, or corrosion, or cracked, or distorted, or broken fittings
- ✔ Any other visible damage that causes doubt as to the strength of the sling

Bird caging

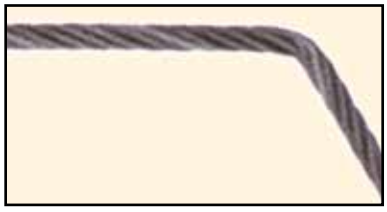
Corroded

Worn wires

Broken wires



Kinked



Crushed

Inspection Records

Written inspection records, utilizing the identification for each sling as established by the user, should bekept on file for all wire rope slings. These records should show a description of the sling and its condition on each periodic inspection.

Repair of Wire Rope Slings

There shall be no repairs done to the wire used in a wire rope sling. Repairs shall be restricted to end attachments and fittings, which will be deemed ok by the manufacturer.

Rigging Training

If your workers are using products that look like this, they need to update their training on safe rigging practices

Keep your workforce SAFE!

THIS ... QUICKLY TURNS... INTO THIS!

This sling in new condition should break at 31,000 lbs
This one failed at 7,040 lbs. Because of its condition.

Courses catered to your needs!

- Ben-Mor is a member of the Industrial Training International Advanced Rigging Network — a training partnership providing world class crane and rigging training to customers like you.

We will not come in and train your people on chain slings, when you do not own a chain sling. The course material is specifically set up to *CATER TO EXACTLY WHAT YOU NEED*, to maximize the time we spend with your people. The training will teach your people how to rig safe and prevent accidents as well as how to extend the life of their slings and lifting components.

Intro to Rigging
2 Hours
Your Site or Ours

What do you learn?
- Sling identification
- 2 Hours
- Inspection criteria
- Removal criteria for web slings, wire rope slings, chain slings, and roundslings
- Prevention of sling damage, using wear protection

What does each attendee receive?
- Pocket reference cards
- Workbook
- Certificate of attendance

Who should attend?
- Production workers

Rigging Fundamentals
4 Hours
Your site or ours

What do you learn?
- Sling identification
- Inspection criteria
- Removal criteria for web slings, wire rope slings, chain slings, and roundslings.
- Sling types and hitches
- Safe lifting practices

What does each attendee receive?
- Pocket reference cards
- Workbook
- Certificate of attendance

Who should attend?
- Safety coordinators
- Production workers
- Senior production or trades

Basic Rigger Course
8 Hours
Your site or ours

What do you learn?
- Employer/employee responsibilities
- ASME B30.9 standards
- Sling identification
- Inspection criteria
- Removal criteria for all slings
- Sling hitches
- OSHA regulations
- D/d ratios
- Load angle reductions
- Environmental considerations
- Repairs & certifications
- Hands on testing

What does each attendee receive?
- Pocket reference cards
- Workbook
- Certificate of completion upon test results of 80% or higher
- Lunch

Who should attend?
- Site supervisor
- Foremen
- Production managers
- Safety coordinators
- Senior production or trades

Photos of this page: Industrial Training International

Custom Labeling

The company name, logo, telephone number, or any information can be put on our sling tags. The sling tag can identify a department that the rigging belongs to, a site, a crane, or an individual's name. Our custom tagging is available any sling type. Please contact our sales department.

Tag Varieties

Highest Quality Synthetic Slings

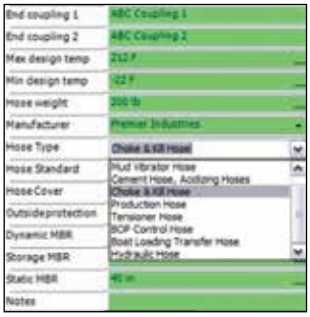
Our standards and our experienced team guarantees a quality product.

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

Eliminate Paperwork... Empower Field Staff

Easy-Track delivers innovative solutions that streamline any inspection and maintenance process. Mobile computing, Radio Frequency (RFID) tagging an internet applications provide you, your contractors, and your customers enhanced accuracy and operational effeciency, not to mention eliminating most of the paperwork.

Easy-Track utilizes durable RFID chips for fast and accurate identification. Handheld computers capture inspections and maintenance operations, eliminating manual data entry. Capture equipment entering in and out of service as well as location transfers. All data is synchronized back to the online database and automatically disseminated to other parties.



Flexible

Easy-Track tracks any asset. Tailor category and item specific attributes, inspection forms, test forms, material certs and other documentation. Initiate items in the shop or the field. This is made simple with prefilled templates and drop down menus for any asset detail you need to track.

Always Available

Easy-Track includes a secure online database hosting your entire asset operation history. Management are notified with alerts for failed inspections, repairs and work order details. Various reports alert you to overdue service and inspections. Asset detail history includes: Size, length, serial number, and part number. Complete backup download of your online database is also available.

Easy-Track Advantage

- ✔ Eliminates the errors and time constraints associated with paperwork, faxing and re-keying data
- ✔ Avoid under utilization - eliminate calendar method of swapping out used assets
- ✔ RFID employee cards manage access and provide accountability
- ✔ Alert service teams automatically on overdue inspections / certifications and corresponding order details
- ✔ Immediate access to inspections and maintenance history through secure, hosted online database
- ✔ Accommodates barcode and traditional serial number tag data.
- ✔ Time stamps prove when and where inspection took place

Lever Hoists

Code	Capacity WLL TON	Standard Lift		Load Chain Diameter		Net Weight	
		m	ft.	mm	in.	kg	lbs.
BMLH014-05	1/4	1,5	5	6	1/4	7,7	17
BMLH012-05	1/2	1,5	5	6	1/4	7,7	17
BMLH034-05-OP	3/4	1,5	5	6	1/4	7,7	17
BMLH112-05-OP	1 1/2	1,5	5	8	5/16	11,8	26
BMLH003-05-OP	3	1,5	5	10	7/16	20,9	46
BMLH006-05-OP	6	1,5	5	10	7/16	31,8	70
BMLH009-05-OP	9	1,5	5	10	7/16	47,2	104

Built in overload protection

Custom chain lenght available on request

Zinc plated hand chain

Ratings in metric ton = Tons of 1000kg or 2200lbs or 9.81 kN.

Proof load = WLL x 1.25

Chain Hoists

Code	Capacity WLL TON	Standard Lift		Load Chain Diameter		Net Weight	
		m	ft.	mm	in.	kg	lbs.
BMCH012-10-OP	1/2	3	10	6	1/4	10,0	22
BMCH012-20-OP	1/2	6	20	6	1/4	14,5	32
BMCH001-10-OP	1	3	10	6	1/4	11,8	26
BMCH001-20-OP	1	6	20	6	1/4	16,5	36
BMCH112-10-OP	1 1/2	3	10	8	5/16	19,0	42
BMCH112-20-OP	1 1/2	6	20	8	5/16	25,0	55
BMCH002-10-OP	2	3	10	8	5/16	20,0	44
BMCH002-20-OP	2	6	20	8	5/16	27,2	60
BMCH003-10-OP	3	3	10	8	5/16	27,2	60
BMCH003-20-OP	3	6	20	8	5/16	37,0	82
BMCH005-10-OP	5	3	10	10	7/16	45,5	100
BMCH005-20-OP	5	6	20	10	7/16	59,0	130
BMCH010-10-OP	10	3	10	10	7/16	83,0	183
BMCH010-20-OP	10	6	20	10	7/16	110,0	243

Built in overload protection

Custom chain lenght available on request

Zinc plated hand chain

Ratings in metric ton = Tons of 1000kg or 2200lbs or 9.81 kN.

Proof load = WLL x 1.25

Beam Clamps

Code	Capacity WLL TON	Net Weight	
		kg	lbs.
BMBC001	1	4,5	9,9
BMBC002	2	5,0	11,0
BMBC003	3	10,5	23,1
BMBC005	5	11,0	24,2
BMBC010	10	16,0	35,3

Push Trolleys

Code	Capacity WLL TON	Net Weight	
		kg	lbs.
BMPT012	1/2	7,0	15,4
BMPT001	1	12,0	26,5
BMPT112	1 1/2	18,0	39,7
BMPT002	2	22,0	48,5
BMPT003	3	30,0	66,1
BMPT005	5	55,0	121,3
BMPT010	10	93,0	205,0

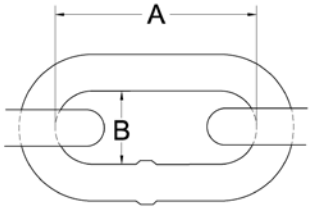
Replacement Parts

Code	Capacity WLL TON	Lifting Chain	Hand Chain	Bottom Hooks with Latch	Safety Latch
Lever Hoist					
BMLH034	3/4	CH80SC-06HOIST	-	SH-034HOIST	LATCH-034HOIST
BMLH112	1 1/2	CH80SC-08HOIST	-	SH-112HOIST	LATCH-112HOIST
BMLH003	3	CH80SC-10HOIST	-	SH-003HOIST-L	LATCH-003HOIST
BMLH006	6	CH80SC-10HOIST	-	SH-006HOIST	LATCH-006HOIST
BMLH009	9	CH80SC-10HOIST	-	SH-009HOIST	LATCH-009HOIST
Chain Hoist					
BMCH012	1/2	CH80SC-06HOIST	CHMZPHOIST	SH-012HOIST-C	LATCH-012HOIST
BMCH001	1	CH80SC-06HOIST	CHMZPHOIST	SH-001HOIST	LATCH-001HOIST
BMCH112	1 1/2	CH80SC-08HOIST	CHMZPHOIST	SH-112HOIST	LATCH-112HOIST
BMCH002	2	CH80SC-08HOIST	CHMZPHOIST	SH-002HOIST	LATCH-002HOIST
BMCH003	3	CH80SC-08HOIST	CHMZPHOIST	SH-003HOIST-C	LATCH-003HOIST
BMCH005	5	CH80SC-10HOIST	CHMZPHOIST	SH-005HOIST	LATCH-005HOIST
BMCH010	10	CH80SC-10HOIST	CHMZPHOIST	SH-010HOIST	LATCH-010HOIST

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

Grade 30 Proof Coil Chain (low carbon steel)

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



Specifications				
Diameter in.	Inside Dimensions in.		Working Load Limit lbs.	Weight / 100 ft. 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
1	3.60	1.25	17,900	941
Safety Factor 4:1				

Test certificate available – Do not use for overhead lifting

Self Colored		
		Drum
Code	Diameter in.	Pack 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
		Metal Drum
53053	5/8	150
		Pail
52000	1/8	250
52001	3/16	150
52002	1/4	100
52003	5/16	75
52006	5/16	90
52004	3/8	45
52005	1/2	25

SELF COLORED

ZINC PLATED

HOT DIPPED GALVANIZED

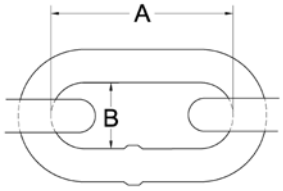
Zinc Plated		
		Drum
Code	Diameter in.	Pack ft.
53010	1/8	1250
53011	3/16	800
53012	1/4	450
53013	5/16	275
53014	3/8	200
53015	1/2	100
		Drum 29 in.
53016	3/16	1,600
53017	1/4	800
		Pail
52009	1/8	250
52010	3/16	150
52011	1/4	100
52012	5/16	75
52013	3/8	45
52014	1/2	25
		Reel
51000	3/16	100
51001	1/4	65
51002	5/16	60
51003	3/8	35
51009	1/8	150

For grade 70 see page 129
For grade 80 see page 84

Hot Dipped Galvanized		
		Metal Drum
53027	5/8	150
53028	3/4	100
		Drum
Code	Diameter in.	Pack 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				

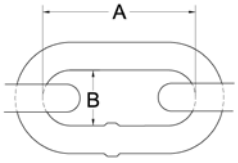
Test certificate available – Do not use for overhead lifting

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



Stainless Steel

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						

Test certificate available – Do not use for lifting

Harrow Chain

Self colored							
Code	Dimensions in.			Working Load Limit lbs.	Pack ft.	Weight / 100 ft. lbs.	Packaging
	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.	Packaging
	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.	Packaging
	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.	Packaging
		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.	Packaging
		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.	Packaging
		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	Packaging
		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.	Packaging
		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.	Packaging
		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.

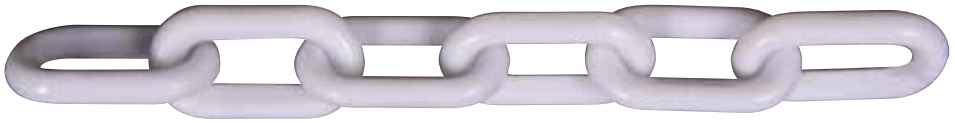
Code	Trade Size #	Dimensions in.		Working Load Limit lbs.	Pack ft.	Weight / 100 ft. lbs.	Packaging
		Dia.	Inside Length				
51141	# 10 (Brass)	.135	.93	43	100	14	Reel
51040	# 10 (Zinc)	.135	.93	43	150	12	Reel
52049	# 10 (Zinc)	.135	.93	43	200	12	Pail
52050	# 10 (Zinc)	.135	.93	43	250	12	Pail
51041	# 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 (Bronze)	.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.	Packaging
		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.	Packaging
		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.	Packaging
		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
51067	# 1 (Zinc)	.105	1.54	.281	155	425	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
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.	Packaging
		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.	Packaging
		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.	Packaging
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.	Packaging
		Dia.	Inside Length	Inside Width				
51087	# 4 Black	.120	.58	.210	70	90	11	Reel
51105	# 4 Zinc Plated	.120	.58	.210	70	90	11	Reel
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
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
51097	#10 Pewter	.109	1.25	.625	45	50	7	Reel
23175	# 10 Pewter	.109	1.25	.625	45	150	7	Special Pail
23170	# 10 Pewter	.109	1.25	.625	45	50	7	Reel
51125	#19 Brass Plated	.043	.205	.110	TBD	82	2	Reel
51086	# 100 Bronze	.087	.63	.240	13	197	3	Reel
51127	# 100 Black	.087	.63	.240	13	197	3	Reel

Dimpled Oval Chain - steel

Code	Trade Size #	Dimensions in.			Working Load Limit lbs.	Pack ft.	Weight / 100 ft. lbs.	Packaging
		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.	Packaging
		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

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

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

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.	Packaging
51065	1/0	.023	35	200	2	Reel

Electrical Fixture Chain

51039 - DOUBLE LOOP

51049 - SINGLE JACK

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

Hook For Fixture Chain

Code	Type	Size or Diameter in.	Inside Length in.	Weight / box lbs.	Packaging	Qty/Pack	Pack/CTN
72021	Fixture Hooks	# W71	-	21	Box	500 (5x100)	1
70929	«S» Hooks	1/8	1.25	14	Box	1000 (10x100)	1
72552	Screw Hooks	# M12	-	21	Box	500 (5x100)	1

Hand Chain

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

Bead Chain

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

Bead Chain Connectors - steel

Code	Trade Size # Finish	Packaging	Qty / Pack	Pack/CTN
55000	#6 Brass Bright	Bag	100	1
55002	#6 Nickel	Bag	100	1
55030	#6 Brass	Card	8	1
55004	# 6 Nickel	Card	6	10
55001	#10 Brass Bright	Bag	100	10
55003	#10 Nickel	Bag	100	1
55031	# 10 Nickel	Card	8	10
55032	#10 Brass Bright	Card	8	10

Hobby / Craft Chain - steel

Code	Trade Size #	Dimensions in.			Working Load Limit lbs.	Pack ft.	Weight per 100 ft. lbs.	Packaging
		Dia.	Inside Length	Inside 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

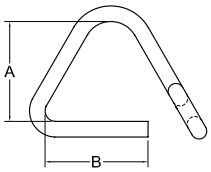
SASH

TWIST

OVAL

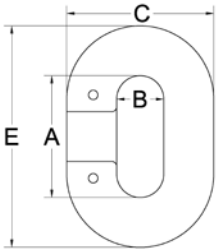
BALL

Cold Shuts (zinc plated steel)



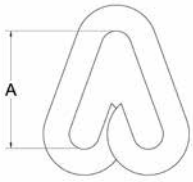
Code	Chain Size in.	Weight / ea. lbs.	Dimensions in.	
			A	B
MF-316	3/16	0.03	15/16	11/32
MF-014	1/4	0.06	1	3/8
MF-516	5/16	0.10	1 3/16	7/16
MF-038	3/8	0.18	1 5/16	5/8
MF-716	7/16	0.27	1 1/2	9/16
MF-012	1/2	0.38	1 9/16	3/4

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.	Pack/CTN
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

Code	For Cable Diameter in.	Length in.	Weight ea. lbs.	Country of origine
RC-8	Up to 3/16	8	0.66	Japan
70293	Up to 3/16	8	0.66	China
RC-450	Up to 1/2	19	3.00	Japan
RC-800	Up to 5/8	23	5.00	Japan

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.

Code	For Oval Sleeves	For Stop Sleeves	For Oval Sleeves 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

Length : 28”— Weight : 5 lbs.

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

Length : 8”— Weight : 8oz

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
70292	Up to 1/4	Up to 1/4	China

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

It's not just rope,

Polyester
Nylon
Polypropylene
Multifilament(MFP)
Cotton
Jute
Sisal
Manila
Anchor Rope
Dock Rope

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. Otherwise, after it has been stretched, it returns to its original lenght. Nylon lasts five times longer than natural fibers because it resists abrasion, chemicals, gas, oil, rotting and UV rays.

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 and 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 no 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	co	Weakens at 180°C / 350°F	No effect	No effect	No effect
Resistance to the sun	● ●	● ●	● ● ● ●	● ● ● ●	● ● ● ●	● ● ● ●

Polyester Seine Twine, Mason And Chalkline

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

Code	Size	Length m.	Length ft.	Color	Packaging	Pack/ 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 m.	Length ft.	Color	Packaging	Pack/ 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

Contractor Grade — Twisted 100% Nylon Twine

Code	Size	Length m.	Length ft.	Color	Packaging	Pack/ CTN
60120	#18	76	250	White	Tube wrapped	6
60121	#18	152	500	White	Tube wrapped	6
60122	#18	76	250	Pink	Tube wrapped	6
60123	#18	152	500	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 m.	Length ft.	Color	Packaging	Pack/ 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

Contractor Grade — 100% Nylon, Seine, Mason And Chalkline Twine On Hand Reel

Code	Size	Length m.	Length ft.	Color	Construction	Packaging	Pack/ CTN
60173	#18	76	250	Orange	Twisted	Plastic hand reel	48
60174	#18	152	500	Orange	Twisted	Plastic hand reel	48
60175	#18	76	250	Yellow	Twisted	Plastic hand reel	48
60176	#18	152	500	Yellow	Twisted	Plastic hand reel	48
60177	#18	76	200	Pink	Braided	Plastic hand reel	48
60178	#18	152	500	Pink	Braided	Plastic hand reel	48
60179	#18	76	250	Orange	Braided	Plastic hand reel	48
60180	#18	76	250	Yellow	Braided	Plastic hand reel	48
60182	#18	152	500	Orange	Braided	Plastic hand reel	48
60184	#18	152	500	Yellow	Braided	Plastic hand reel	48

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 m.	Length ft.	Color	Packaging	Pack/ 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	Coil wrapped	6
60642	Medium	914	3000	Beige	Tube wrapped	1
60643	Medium	49	160	White	Tube wrapped	6
60646	Medium	2133	7000	White	Coil wrapped	1

Polyester Twine

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

Code	Size	Length m.	Length ft.	Color	Packaging	Pack/ 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 m.	Length ft.	Color	Packaging	Pack/ 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

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 m.	Length ft.	Color	Packaging	Pack/ CTN
60560	2 strands fins	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 moyens	50	165	Brown	Tube wrapped	6
60571	2 strands moyens	79	260	Green	Tube wrapped	6
60572	2 strands moyens	151	495	Brown	Tube wrapped	6
60574	2 strands moyens	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 m.	Length ft.	Color	Packaging	Pack/ 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

Braided Cotton Rope

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

Code	Use	Size mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ 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	Sash	3,6	1/8	15	50	White	Hank	6
60625	Sash	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 mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ 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

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 mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ CTN
60502	6,4	1/4	15	50	Natural	Wrapped mini-coil	6
60503	6,4	1/4	30	100	Natural	Wrapped mini-coil	6
60504	6,4	1/4	152	500	Natural	Wrapped mini-coil	4
60508	9,5	3/8	15	50	Natural	Wrapped mini-coil	6
60509	9,5	3/8	183	600	Natural	Wrapped mini-coil	2
60510	12,7	1/2	15	50	Natural	Wrapped mini-coil	6
60511	12,7	1/2	91	300	Natural	Wrapped mini-coil	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 mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ CTN
60586	6,4	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

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 mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ 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 black and yellow stripes	Mini-reel	1
60282	General	5,6	7/32	15	50	White with black and yellow 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 black and yellow 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

Diamond 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 mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ CTN
60240	4	5/32	15	50	Grey	Hank	6
60242	4	5/32	23	75	Khaki	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	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
60066	4	5/32	23	75	Mixed	Reel	12
60067	4,8	3/16	23	75	Mixed	Reel	12

Camouflage Diamond Braided Polypropylene Rope

Code	Size mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ CTN
60243	9,5	3/8	15	50	Camouflage	Plastic hand reel	6
60244	9,5	3/8	30	100	Camouflage	Plastic hand reel	6
60245	4	5/32	15	50	Camouflage	Plastic hand reel	6
60246	4	5/32	30	100	Camouflage	Plastic hand reel	6
60247	6,4	1/4	15	50	Camouflage	Plastic hand reel	6
60248	6,4	1/4	30	100	Camouflage	Plastic hand reel	6

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 mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ CTN
60167-IND	4,8	3/16	648	2125	Yellow	Reel	1
60169-IND	4,8	3/16	648	2125	White	Reel	1
60191-IND	6,4	1/4	396	1300	Yellow	Reel	1
60195-IND	7,9	5/16	274	900	Yellow	Reel	1
60209-IND	9,5	3/8	183	600	Yellow	Reel	1
60215-IND	12,7	1/2	102	335	Yellow	Reel	1
60223-IND	16	5/8	61	200	Yellow	Reel	1
60229-IND	19	3/4	48	150	Yellow	Reel	1

Dyneema Winch Cable

An alternative to wire rope at 1/7th the weight of same size wire rope. This synthetic cable will not rust is non-rotational and has same stretch attributes as wire rope. Made with 100% Dyneema fiber.

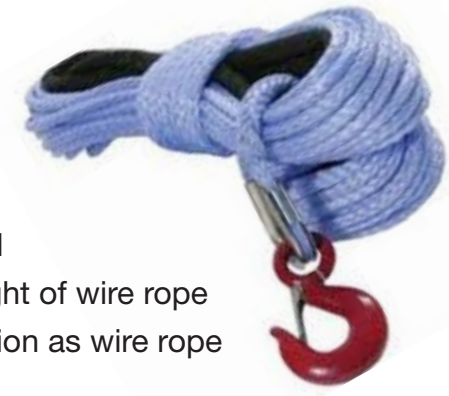
Code	Size mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ CTN
60401	12,7	1/2	220	721	Blue	Reel	1
60406	38	1 1/2	220	721	Blue	Reel	1
60407	51	2	220	721	Blue	Reel	1
60806	4,8	3/16	274	900	Blue	Reel	1
60803	6,4	1/4	500	1640	Blue	Reel	1
60805	9,5	3/8	274	900	Blue	Reel	1
60809	12,7	1/2	274	900	Blue	Reel	1

Code	Size mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ CTN
WCD-316050	4,8	3/16	15	50	Blue	Bag	1
WCD-14050	6,4	1/4	15	50	Blue	Bag	1

DYNEEMA Winch Cable

BEN-MOR®

- Made with 100% Dyneema fibers
- Wire Rope replacement
- Highly flex-fatigue resistant
- Highly abrasion resistant



- Non-rotational
- 1/7th the weight of wire rope
- Same elongation as wire rope
- Anti-corosion

High Visibility Polypropylene Rope

Code	Size mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ CTN
60030	4	5/32	15	50	Orange (Reflective)	Plastic hand reel	12
60032	9,5	3/8	15	50	Orange (Reflective)	Plastic hand reel	12
60044	4,8	3/16	15	50	Green (Glow in the dark)	Hank	12
60043	6,4	1/4	15	50	Green (Glow in the dark)	Hank	12

Solid Braided Nylon Rope

Code	Size mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ CTN
60361	3,2	1/8	366	1,200	White	Reel	1
60363	4,8	3/16	366	1,200	White	Reel	1
60390	6,4	1/4	305	1,000	White	Reel	1
60365	6,4	1/4	366	1,200	White	Reel	1
60366	7,9	5/16	183	600	White	Reel	1
60369	9,5	3/8	183	600	White	Reel	1
60370	12,7	1/2	91	300	White	Reel	1

Double Braided Nylon Rope

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

Code	Size mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ CTN
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	300	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 general-purpose cord, it is very resistant to abrasion. It is frequently used as cord for Venetian blinds, pulleys and lawn umbrellas and as start-up cord.

Code	Size mm	Size in.	Length m.	Length ft.	Color	Packaging	Pack/ CTN
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
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	30	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
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

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		Length		Color	Packaging	Pack/ CTN
	mm	in.	m.	ft.			
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.

Code	Size		Length		Color	Packaging	Pack/ CTN
	mm	in.	m.	ft.			
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

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	Pack/ 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

Stronger and lighter than wire

Features

- Made with 100% Dyneema® fiber
- Samthane coated
- Maximum strength-to-weight ratio
- Highly flex-fatigue resistant
- Highly abrasion resistant
- Nonrotational
- 1/7th the weight of wire
- Same elongation as wire
- Wire rope replacement

Applications

- Pulling/stringing lines
- Climbing/rigging accessories
- Winch lines
- Slings
- Lifelines
- Camera control lines
- Event/special effects rigging

Specific Gravity

0.98 g/cm³

Elastic Elongation Percentage

At % of break strength
10% 0.46%
20% 0.70%
30% 0.96%

SAMSON — AmSteel®-Blue

Size Dia. in.	Size Circ. in.	Weight Per 100 ft. lbs.	Avg. Strength* lbs.	MBS* lbs.	Size Diameter mm	Weight Per 100 M kg	Avg. Strength* kg	MBS* kg
7/64	5/16	0.3	1,600	1,400	2.5	.45	730	650
1/8	3/8	0.5	2,500	2,300	3	.74	1,100	1,000
5/32	15/32	.75	4,000	3,600	4	1.1	1,800	1,600
1/4	3/4	1.6	8,600	7,700	6	2.4	3,900	3,500
5/16	1	2.7	13,700	12,300	8	4.4	6,200	5,600
3/8	1-1/8	3.6	19,600	17,600	9	5.4	8,900	8,000
7/16	1-1/4	4.2	23,900	21,500	11	6.2	10,800	9,800
1/2	1-1/2	6.4	34,00	30,600	12	9.5	15,400	13,900
9/16	1-3/4	7.9	40,500	36,500	14	11.8	18,400	16,500
5/8	2	10.2	52,800	47,500	16	15.2	24,000	21,600
3/4	2-1/4	13.3	64,400	58,000	18	19.8	29,200	26,300
7/8	2-3/4	19.6	90,800	81,700	22	29.2	41,200	37,100
1	3	21.8	109,000	98,100	24	32.4	49,400	44,500
1-1/16	3-1/4	27.5	131,000	118,000	26	40.9	59,600	53,600
1-1/8	3-1/2	31.9	148,000	133,000	28	47.5	67,100	60,400
1-1/4	3-3/4	36.2	165,000	149,000	30	53.9	75,000	67,500
1-5/16	4	41.8	184,000	166,000	32	62.2	83,600	75,200
1-3/8	4-1/8	45.0	205,000	185,000	34	67.0	93,200	83,900
1-1/2	4-1/2	51.7	228,000	205,000	36	76.9	103,000	93,000

* Spliced strength.

High-performance Synthetic ropes for mining

Features

- Similar to AmSteel®-Blue with improved coating to reduce internal yarn to yarn abrasion
- Decreased coefficient of friction at winch surfaces
- A size-for-size strength replacement for wire rope at only 1/7th the weight and flexibility
- Easier handling results in less down time during change-outs

Applications

- Utility winch lines
- Shield hauler winch lines
- Stringing lines

Specific Gravity

0.98 (floats) g/cm³

Elastic Elongation Percentage

At % of break strength
10% 0.46%
20% 0.70%
30% 0.96%

SAMSON — Saturn-12

Size Dia. in.	Size Circ. in.	Weight Per 100 ft. lbs.	Avg. Strength* lbs.	MBS* lbs.	Size Diameter mm	Size Circ. in.	Weight Per 100 M kg	Avg. Strength* kg	MBS* kg	ISO 2307 Strength metric Tons
1/4	3/4	1.6	8,600	7,700	6	18	2.4	3,900	3,500	3.9
5/16	1	2.7	13,700	12,300	8	24	4	6,200	5,600	6.2
3/8	1-1/8	3.6	19,600	17,600	9	27	5.4	8,900	8,000	8.9
7/16	1-1/4	4.2	23,900	21,500	11	33	6.2	10,800	9,800	10.8
1/2	1-1/2	6.4	34,000	30,600	12	36	9.5	15,400	13,900	15.4
9/16	1-3/4	7.9	40,500	36,500	14	42	11.8	18,400	16,500	18.4
5/8	2	10.2	52,800	47,500	16	48	15.2	24,000	21,600	24
3/4	2-1/4	13.3	64,400	58,000	18	54	19.8	29,200	26,300	29,2
13/16	2-1/2	17	82,000	73,800	20	60	25.3	37,200	33,500	37.2
7/8	2-3/4	19.6	90,800	81,700	22	66	29.2	41,200	37,100	41.2
1	3	21.8	109,000	98,100	24	72	32.4	49,400	44 500	49.4
1-1/16	3-1/4	27.5	131,000	118,000	26	78	40.9	59,400	53 500	59.4
1-1/8	3-1/2	31.9	148,000	133,000	28	84	47.5	67,100	60,400	67.1
1-1/4	3-3/4	36.2	165,000	149,000	30	90	53.9	74,800	67,400	74.8
1-5/16	4	41.8	184,000	166,000	32	96	62.2	83,500	75,100	83.5
1-3/8	4-1/8	45	205,000	185,000	34	100	67	93,000	83,700	93
1-1/2	4-1/2	51.7	228,000	205,000	36	108	76.9	103,000	93,100	103
1-5/8	5	65.2	283,000	255,000	40	120	97	128,000	116,000	128
1-3/4	5-1/2	78.4	335,000	302,000	44	132	117	152,000	137,000	152
2	6	87	381,000	343,000	48	144	129	173,000	156,000	173
2-1/8	6-1/2	109	457,000	411,000	52	156	162	207,000	187,000	207
2-1/4	7	116	537,000	483,000	56	168	173	244,000	219,000	244
2-1/2	7-1/2	148	588,000	529,000	60	180	220	267,000	240,000	267
2-5/8	8	167	662,000	596,000	64	192	248	300,000	270,000	300
2-3/4	8-1/2	187	735,000	662,000	68	204	278	333, 000	300,000	333
3	9	206	832,000	749,000	72	216	307	377,000	340,000	377
3-1/8	9-1/2	228	920,000	828,000	76	228	339	417,000	376,000	417
3-1/4	10	240	1,007,000	906,000	80	240	357	457,000	411,000	457

* Spliced strength.

SAMSON — Super Strong

Size Dia. in.	Size Circ. in.	Weight Per 100 ft. lbs.	Avg. Strength* lbs.	MBS* lbs.	Size Diameter mm	Weight Per 100 M kg	Avg. Strength* kg	MBS* kg
1/4	3/4	1.6	2,300	2,000	6	2.4	1,000	890
5/16	1	2.6	3,400	2,900	8	3.9	1,500	1,300
3/8	1-1/8	3.7	4,900	4,200	9	5.5	2,200	1,900
7/16	1-1/4	5.1	6,600	5,600	11	7.6	3,000	2,500
1/2	1-1/2	6.6	8,600	7,300	12	9.8	3,900	3,300
9/16	1-3/4	9.3	11,900	10,100	14	13.8	5,400	4,600
5/8	2	12.0	15,200	12,900	16	17.9	6,900	5,900
3/4	2-1/4	15.0	18,800	16,000	18	22.3	8,500	7,200
7/8	2-3/4	22.0	29,000	24,700	22	32.7	13,200	11,200
1	3	26.0	36,000	30,600	24	38.7	16,300	13,900
1-1/16	3-1/4	31.0	40,700	34,600	26	46.1	18,500	15,700
1-1/8	3-1/2	36.0	45,000	38,300	28	53.6	20,400	17,400
1-1/4	3-3/4	41.0	52,000	44,200	30	61.0	23,600	20,000
1-5/16	4	43.5	59,300	50,400	32	64.7	26,900	22,900
1-1/2	4-1/2	60.0	75,600	64,300	36	89.3	34,300	29,100

* Spliced strength. This product meets various military specifications; please consult Customer Service for details.

Excellent in all conditions

Features

- High-tenacity nylon fiber
- Pro-Gard finish
- Firm
- Flexible
- Excellent shock mitigation

Applications

- Winch working lines
- Heavy lift slings
- Utility rigging

Specific Gravity

1.14 g/cm^3

Elastic Elongation Percentage

At % of break strength

10% 3.0%

20% 5.3%

30% 6.7%

SAMSON — Stable Braid

Size Dia. in.	Size Circ. in.	Weight Per 100 ft. lbs.	Avg. Strength* lbs.	MBS* lbs.	Size Diameter mm	Weight Per 100 M kg	Avg. Strength* kg	MBS* kg
1/4	3/4	2.1	2,300	2,000	6	3.1	1,000	890
5/16	1	3.2	3,600	3,100	8	4.8	1,600	1,400
3/8	1-1/8	4.5	5,600	4,800	9	6.7	2,500	2,200
7/16	1-1/4	6.1	7,700	6,500	11	9.1	3,500	3,000
1/2	1-1/2	8.2	10,400	8,800	12	12.2	4,700	4,000
9/16	1-3/4	11.0	13,300	11,300	14	16.4	6,000	5,100
5/8	2	14.0	16,300	13,900	16	20.8	7,400	6,300
3/4	2-1/4	18.0	20,400	17,300	18	26.8	9,300	7,900
7/8	2-3/4	27.1	29,900	25,400	22	40.3	13,600	11,500
1	3	34.0	39,200	33,300	24	50.6	17,800	15,100
1-1/8	3-1/2	45.3	48,200	41,000	28	67.4	21,900	18,600
1-1/4	3-3/4	53.9	57,300	48,700	30	80.2	26,000	22,100
1-5/16	4	60.8	64,700	55,000	32	90.5	29,300	24,900
1-1/2	4-1/2	73.3	75,100	63,800	36	109	34,100	29,000

* Spliced strength. This product meets various military specifications; please consult Customer Service for details.

Versatile and dependable

Features

- Polyester cover and core
- Torque-free construction
- Durable
- Abrasion resistant
- UV resistant
- Heat resistance
- Flex-fatigue resistance
- Firm flexible
- Low elongation

Applications

- Utility rigging
- Winch lines
- Winch working lines
- Pulling/stringing lines
- Heavy lift slings
- Rigging lines
- Stage rigging

Specific Gravity

1.38 g/cm^3

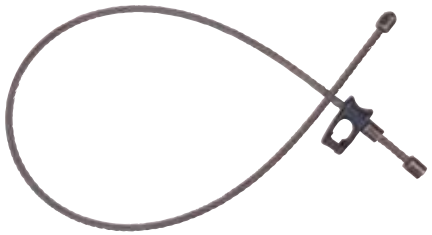
Elastic Elongation Percentage

At % of break strength

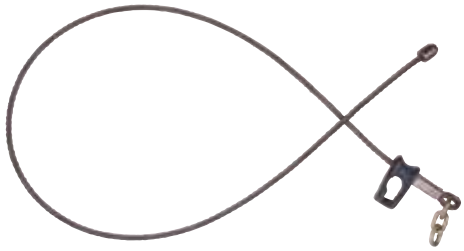
10% 1.1%

20% 1.7%

30% 2.7%



TYPE 3 BUTTONS



CHAIN TYPE

Forestry chokers

Code Type 3 (buttons)	Code Chain Type	Diameter x length in.	Minimum Breaking Strength 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

TYPE 6
Also available

Extensions (type 2 buttons)

Code	Diameter x length in.	Minimum Breaking Strength 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 in. x ft.	Minimum Breaking Strength lbs.	Weight / ft. approx. 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 in. x ft.	Minimum Breaking Strength lbs.	Weight / ft. approx. 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

Code	Diameter in.	Grade	Finish	Length ft.	Working Load Limit lbs.	Weight / ea. 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)

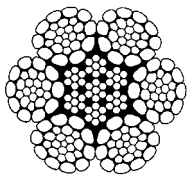
Code WITHOUT latch	Code WITH latch	For cable diameter in.	Eye diameter in.	Throat opening in.	Weight / ea. approx. lbs.
A350-038	A350L-038	3/8	11/16	5/8	0.75
A350-012	A350L-012	1/2	3/4	25/32	1.25
A350-058	A350L-058	5/8	7/8	15/16	3.10
A350-034	A350L-034	3/4	1	1 5/32	5.17

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

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



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

Tie-Down Accessories

Delta Rings

Code	Material width in.	Weight / lbs.
DR2	2	0.2
DR3	3	0.8

Flat Hooks

Code	Material width in.	Weight / lbs.
CP2	2	0.7
CP3	3	1.1
CP4	4	2.0

Narrow Wire Hooks

Code	Material width in.	Weight / lbs.
CF1	1	0.1
CF2	2	0.6
CF3	3	1.6

Ratchet Buckles

Code	Material width in.	Weight / lbs.
RAT1	1	1.0
RAT2L	1 3/4	2.5
RAT3L	3	7.0

Snap Hook

Code	Hook Type	Material width in.	Weight / lbs.
3010250	Snap	1	0.2
3020253	Snap	2 (BS 6,000 lbs.)	0.4
3020254	Snap	2 (BS 10,000 lbs.)	0.6
3020255	Long Snap	2 (BS 10,000 lbs.)	0.7
3020251	Twisted Snap	2 (BS 10,000 lbs.)	0.6

Vinyl "S" Hook

Code	Material width in.	Weight / lbs.
3010330	1 (BS 1,200 lbs.)	0.3

"E" Fitting

Code	Material width in.	Weight / lbs.
304900	2 (BS 4,500 lbs.)	0.2

Chain Assembly

Code	Material width in.	Weight / lbs.
3020010	2	2.3
3030010	3	3.6
3040010	4	4.2

Corner Caps

Code	Material width in.	Weight / lbs.
MCC2	1 3/4 - 2	–
MCC4	2 - 4	–
PCC	2 - 4	0.2

Side Winches

Code	Material width in.	Weight / lbs.
TRS2	2	3.5
TRS5	5	9.0
TRS7	7	12.0

Rubber Straps w/ «S» Hooks

Code	Length in.	Weight / lbs.
TC9	9	0.2
TC21	21	0.3
TC31	31	0.4
TC41	41	0.5

Sliding Bars

Code	Length in.	Weight / lbs.
RAIL6	72	35.0

Winch Bars

Code	Length in.	Weight / lbs.
BAR	30	5.0

IWRC 6x26 Wire Core

Diameter in.	Breaking Strength	Swivel SL Hook in.
7/8	76,000	5/8
1	98,000	3/4

Warning - Maximum rated capacities for new cable. Do not exceed.

Roll off Cables

We manufacture brand new roll-off cables, or we can use customers hooks and re-wire them. A re-wire will include a proof test on the hook to ensure it is still good.

Winch Cables

Made with 6x19 IWRC cable, and an alloy eye hook with latch one end. Special order for Fiber Core,

Wire Core		
Diameter in.	Breaking Strength	Allow Hook Ton
5/16	10,500	1
3/8	15,100	2
7/16	20,400	3
1/2	26,600	3
9/16	33,600	4.5
5/8	41,200	4.5
3/4	58,800	7

Wire Core		
Diameter in.	Breaking Strength	Allow Hook Ton
5 /16	8,500	1
3/8	12,200	2
7 /16	16,500	3
1 /2	21,400	3
9 /16	27,000	4.5
5/8	33,400	4.5
3 /4	47,600	7

Warning - Maximum rated capacities for new cable. Do not exceed.

1" Straps

1" Utility straps are used for securing motorcycles, snowmobiles, or small equipment. 1" straps are available in wide range of colors.


RSSH1


RSWH1


RSWHD1

Code	Diameter x length in. x ft.	Minimum Breaking Strength lbs.	Type	End Harware
CSSH1-6	1 x 6	500	Cam Strap	Vinyl "S" Hook
RSSH1-10	1 x 10	800	Ratchet Strap	Vinyl "S" Hook
RSSH1-16	1 x 16	800	Ratchet Strap	Vinyl "S" Hook
RSWH1-12	1 x 12	1,100	Ratchet Strap	Wire Hook
RSWH1-16	1 x 16	1,100	Ratchet Strap	Wire Hook
RSWHD1-16	1 x 16	1,100	Ratchet Strap	Wire Hook & Dee Ring
RSWH1-20	1 x 20	1,100	Ratchet Strap	Wire Hook

Custom sizes available.

2" Straps

Standard Rachet straps are made with Long Wide Handle Ratchet Buckle.


RSWH2


RSFH2


RSWCA2


RSEN2

Code	Diameter x length in. x ft.	Minimum Breaking Strength lbs.	Type	End Harware
RSWH2-20	2 x 20	3,300	Rachet Strap	Wire Hook
RSWH2-25	2 x 25	3,300	Rachet Strap	Wire Hook
RSWH2-30	2 x 30	3,300	Rachet Strap	Wire Hook
RSFH2-25	2 x 25	3,300	Rachet Strap	Flat Hook
RSFH2-30	2 x 30	3,300	Rachet Strap	Flat Hook
RSCA2-25	2 x 25	3,300	Rachet Strap	Chain Assembly
RSCA2-30	2 x 30	3,300	Rachet Strap	Chain Assembly
RSEN2-20	2 x 20	3,300	Rachet Strap	Endless
RSEN2-25	2 x 25	3,300	Rachet Strap	Endless

Custom sizes available.

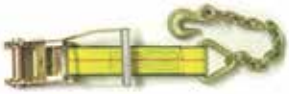
2" Tail Straps


TSRFH2


TSRWH2


TSWH2


TSFH2


TSRCA2


TSCA2

Code	Diameter x length in. x in	Minimum Breaking Strength lbs.	Type	End Harware
TSRWH2-18	2 x 18	3,300	Rachet Tail	Wire Hook
TSRFH2-18	2 x 18	3,300	Rachet Tail	Flat Hook
TSRCA2-33	2 x 33	3,300	Rachet Tail	Chain Assembly
TSWH2-1	2 x 12	3,300	1" Loop	Wire Hook
TSFH2-1	2 x 12	3,300	1" Loop	Flat Hook
TSCA2-30	2 x 30	3,300	1" Loop	Chain Assembly

3" & 4" Straps


RSCA3

Code	Diameter x length in. x ft.	Minimum Breaking Strength lbs.	Type	End Harware
RSWH3-30	3 x 30	5,000	Rachet strap	Wire Hook
RSFH3-30	3 x 30	5,400	Rachet strap	Flat Hook
RSCA3-30	3 x 30	5,400	Rachet strap	Chain Assembly
RSDR3-30	3 x 30	5,400	Rachet strap	Dee Ring
RSFH4-30	4 x 30	5,400	Rachet strap	Flat Hook
RSCA4-30	4 x 30	5,400	Rachet strap	Chain Assembly

Custom sizes available.

WARNING Maximum rated capacities for new slings.

Do not exceed.

White Tie Downs

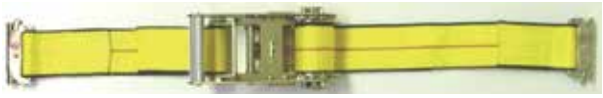
1" White tie-downs are great for event tents or tarps.

Van Straps

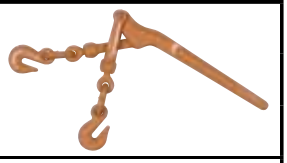
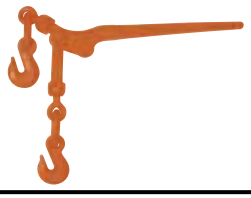
Standard Van straps are made with Short Handle Ratchet Buckle.

Code	Diameter x length in. x ft.	Minimum Breaking Strength lbs.	Type	End Harware
RSEF2-12	2 x 12	1,500	Rachet Strap	E-Fitting
RSEF2-16	2 x 16	1,500	Rachet Strap	E-Fitting

Custom sizes available.



Load Binders

Code	Product	Chain Size in.	Capacity lbs.	Weight lbs.	
55005	BX 270 Style	3/16 (G30)	375	1.0	
55006	BX 271 Style	1/4 (G30 - G40) 5/16 (G30)	2,600	3.5	
55007	BX 320 Style	5/16 (G40 - G70) 3/8 (G40)	5,400	7.0	
55008	BX 400 Style	3/8 (G40 - G70) 1/2 (G40)	9,200	10.5	
55009	BX 600 Style	5/16 (G40 - G70) 3/8 (G40)	5,400	10.25	
55010	BX 800 Style	3/8 (G40 - G70) 1/2 (G40)	9,200	14.0	
55014	Ratchet Type	1/4 (G40 - G70) 5/16 (G30)	2,600	3.85	
55015	Ratchet Type	5/16 (G40 - G70) 3/8 (G40)	5,400	10.8	
55015HD	Ratchet Type	5/16 (G40 - G70) 3/8 (G40-G70)	6,600	10.8	
55016	Ratchet Type	3/8 (G40 - G70) 1/2 (G40)	9,200	12.75	
55017	Ratchet Type	1/2 (G40 - G70) 5/8 (G40)	13,000	14.55	
LBS150-012	Lever Type	1/2 (G40 - G70) 5/8 (G40)	11,000	20	

WARNING Maximum rated capacities for new slings.
Do not exceed.

Tie Down Chain (Grade 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.	Tow Capacity lbs.	Weight / ea. lbs.
ASC-01405	56011	1/4	5	10,000	5.5
ASC-01406	56013	1/4	6	10,000	5.5
ASC-51605	56012	5/16	5	15,000	8.5
ASC-51606	56014	5/16	6	15,000	8.5
ASC-03805	56009	3/8	5	20,000	11.5
ASC-03806	56015	3/8	6	20,000	11.5
ASC-01205	56010	1/2	5	40,000	18.5
ASC-01206	56016	1/2	6	40,000	19.5
Safety factor : 4:1					

Custom sizes available on request.

Tow Chain (Grade 70)

Code Bulk	Code Packaged	Chain Size in.	Length ft.	WLL lbs.	Weight / ea. lbs.
TC7051614	56115	5/16	14	4,300	15.0
TC7003816	56116	3/8	16	5,250	24.0
Safety factor : 4:1					

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
Safety factor : 3:1					

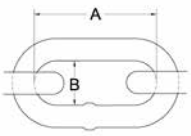
Other combinations of cables, chain and hook available upon request.

Tie Down Chain (Grade 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		
		Drum
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
		Pail
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

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
56111	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 Trade	30	3	36	2 x «S» Hooks 7/16	1.6
56105	1/4 Trade	30	3	48	2 x «S» Hooks 7/16	2.1
56106	1/4 Trade	30	3	60	2 x «S» Hooks 7/16	2.0
56107	1/4 Trade	30	3	72	2 x «S» Hooks 7/16	3.1
56112	1/4 Trade	30	3	24	1 x «S» Hook 7/16	1.0
56109	1/4 Trade	30	3	30	1 x «S» Hook 7/16	1.3
56110	1/4 Trade	30	3	36	1 x «S» Hook 7/16	1.6

Other

Code	Chain Diameter in.	Grade	Class	Length in.	Endings	Weight / ea. lbs.
56113	5/16	30	N/A	40	1 x «S» Hook with latch	3.48
56114	3/8	30	N/A	41	1 x Hook with G43 latch	4.74

TOW CABLE

WINCH CABLE

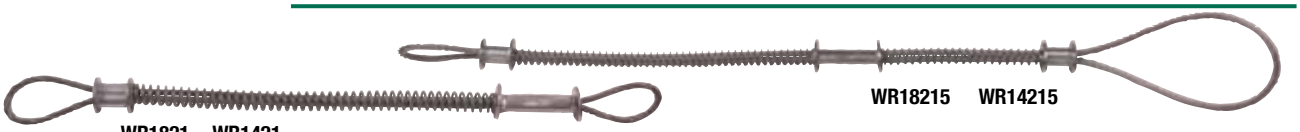
Tow Cables and Winch Cables

Code	Description
90300	Tow Cable 7/32, 7 x 19 GAC x 25'
90304	Tow Cable 7/32, 7 x 19 GAC x 50'
90301	Tow Cable 5/16, 7 x 19 GAC x 25'
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'
90305	Winch Cable 3/16, 7 x 19 GAC x 50'

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.



WR1821 WR1421 WR18215 WR14215

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

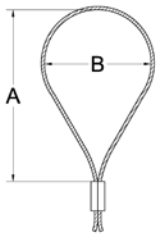
Code	For hose diameter Po. / in.	Length in.	Diameter of cable used in.	Weight / ea. approx. lbs.
WR1821-S	1/2 – 1 1/4	14	1/8	0.21

Any length available upon request.

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

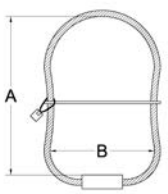
Wire rope concrete anchor custom made available.



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.



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Packaged Chains

Code	Description	Finish	Dia. in.	Trade size #	Package ft.	Inside dimensiond			Working load limit lbs.	Weight lbs.	Packaging	Pack/ CTN
						Dia.	Inside length	Inside width				
55260	G30	Zinc	1/8	-	16	-	0.69	.25	325	3.2	Pail	6
55261	G30	Zinc	3/16	-	16	-	0.97	.33	630	4.6	Pail	6
55262	G30	Zinc	1/4	-	10	-	1.14	.43	1,100	5.2	Pail	4
55263	G30	Zinc	5/16	-	8	-	1.24	.50	1,900	6.8	Pail	4
55264	G30	Zinc	3/8	-	5	-	1.35	.57	2,650	6.2	Pail	4
55270	G30	Galvanized	1/8	-	16	-	0.69	.25	325	3.2	Pail	6
55271	G30	Galvanized	3/16	-	16	-	0.97	.33	630	4.6	Pail	6
55272	G30	Galvanized	1/4	-	10	-	1.14	.43	1,100	5.2	Pail	4
55273	G30	Galvanized	5/16	-	8	-	1.24	.50	1,900	6.8	Pail	4
55274	G30	Galvanized	3/8	-	5	-	1.35	.57	2,650	6.2	Pail	4
55280	Passing Link	Zinc	-	2/0	10	.190	.88	.47	450	3.2	Pail	6
55204	Machine Chain Twist Link	Zinc	-	2/0	10	.190	.73	.28	520	3.4	Pail	6
55206	Coil Chain Straight Link	Zinc	-	2/0	10	.190	1.29	.32	520	2.7	Pail	6
55243	Double Loop	Zinc	-	2/0	16	.135	1.82	.34	255	2.7	Pail	6
55245	Double Loop	Zinc	-	3/0	16	.148	2.17	.415	305	3.2	Pail	4

Stainless Steel Cable

Galvanized Cable

	50'			100'			150'			200'		
Dia. In.	GAC	SS304	SS316	GAC	SS304	SS316	GAC	SS304	SS316	GAC	SS304	SS316
3/64	83030	83130	83230	81030	81130	81230	89030	89130	89230	88030	88130	88230
1/16	83031	83131	83231	81031	81131	81231	89031	89131	89231	88031	88131	88231
5/64	83032	83132	83232	81032	81132	81232	89032	89132	89232	88032	88132	88232
3/32	83033	83133	83233	81033	81133	81233	89033	89133	89233	88033	88133	88233
1/8	83034	83134	83234	81034	81134	81234	89034	89134	89234	88034	88134	88234

7 x 7

	250'			500'			1000'		
Dia. In.	GAC	SS304	SS316	GAC	SS304	SS316	GAC	SS304	SS316
3/64	82030	82130	82230	80030	80130	80230	86030	86130	86230
1/16	82031	82131	82231	80031	80131	80231	86031	86131	86231
5/64	82032	82132	82232	80032	80132	80232	86032	86132	86232
3/32	82033	82133	82233	80033	80133	80233	86033	86133	86233
1/8	82034	82134	82234	80034	80134	80234	86034	86134	86234

7 x 7

	50'			100'			150'			200'		
Dia. In.	GAC	SS304	SS316	GAC	SS304	SS316	GAC	SS304	SS316	GAC	SS304	SS316
1/8	83042	83142	83242	81042	81142	81242	89042	89142	89242	88042	88142	88242
5/32	83043	83143	83243	81043	81143	81243	89043	89143	89243	88043	88143	88243
3/16	83044	83144	83244	81044	81144	81244	89044	89144	89244	88044	88144	88244
1/4	83045	83145	83245	81045	81145	81245	89045	89145	89245	88045	88145	88245
5/16	83046	83146	83246	81046	81146	81246	89046	89146	89246	88046	88146	88246
3/8	83047	83147	83247	81047	81147	81247	89047	89147	89247	88047	88147	88247

7 x 19

	250'			500'			1000'		
Dia. In.	GAC	SS304	SS316	GAC	SS304	SS316	GAC	SS304	SS316
1/8	82042	82142	82242	80042	80142	80242	86042	86142	86242
5/32	82043	82143	82243	80043	80143	80243	86043	86143	86243
3/16	82044	82144	82244	80044	80144	80244	86044	86144	86244
1/4	82045	82145	82245	80045	80145	80245	86045	86145	86245
5/16	82046	82146	82246	80046	80146	80246	86046	86146	86246
3/8	82047	82147	82247	80047	80147	80247	86047	86147	86247

7 x 19

Conversion Table

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”	0.23475	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.


Merci!
20
Ans

BEN-MOR®

www.ben-mor.com
info@ben-mor.com

Head Office
1105, Lemire, St-Hyacinthe, Quebec, Canada, J2T 1L8
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TURNER & SEYMOUR

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