

BEN-MOR

Hooked on SERVICE

Coupe :

Robot :

Robot :

Strip :

2007-04-25

CABLE 1x19 Galv. 1/16"

BM21259-012H

B/C Client :

Date de livr. :

Ref: HST #

BM21259-014G # 116GAINENOIR # NUTJN-01428 # L

29 $\frac{13}{16}$ $\pm \frac{1}{32}$

31 $\frac{9}{32}$ $\pm \frac{1}{32}$

HDTG-716

SH-002

BAS505716

ATTENTION A LA PRECISION A LA COUPE DE LA GAINE

15/16" A 30 1/32"

INSTRUCTI

on : Le câble doit glisser f
STUDS après pressage

Par :

Date 2007-07-14

B/C Ben-Mor

B/C Client :

Date de livr. :

RING (RP271068)

COUPE

ACC :

Dénudeur :

Press :

Contrôle qual. :

No. test :

LEATHER PAD ON BOTH SIDE
(ER-TWIN)

EYE (LML/RSJ)

HOOK
(BF+MCB)



« 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 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.

Armored Cable	21	Eye Bolts	36-37, 44, 52	Sleeves	24-25, 50
Ball Fitting	12	Eye End	45	Slings	
Cable & Wire Rope	18-23	Eye Fitting	11	Chain Slings	59
Chain		Eye Nuts	37, 52	Wire Rope Slings	64-65
Grade 30	73	Forestry Chokers	86	Web Slings	67-71
Grade 40	74	Fork	13, 45, 56	Snaps	46-48, 56-57
Grade 70	89	Hammerlock Type		Snatch Block	35
Grade 80	60	Connecting Links	60	Sockets	42-43
Stainless Steel	74	Hoist Rings	38	Spelter Sockets	43
Agricultural Safety Chain	75	Hooks		Stake Hook	45
Bead	81	Grade 40	40, 41	Strap Eyes	13, 56
Coated	78	Grade 70	41	Strap Fork	13, 45, 56
Coil	75	Grade 80	60-62	Stub End Turnbuckles	33
Craft	81	Stainless	57	Studs	10, 44, 53
Cutter	82	Others	39, 40, 42, 45, 87	Swage Cable	21-86-87
Decorative	79	Jaw and Swage Terminal	55	Swage Sockets	42-43
Double Loop	78	Jaw Fitting	11	Swagers	84-85
Electrical	80	Lap Links	82	Swivels	27
Furnace	79	Latch	39	Synthetic Slings	67-71
Hobby	81	Lifting Eye Bolt	52	Thimbles	26-27, 50-51
Jack	77	Load Binders	90	Threaded Fittings	10, 44, 53
Lock Link	78	Marine Eyes	53	Tie-Down Accessories	88
Machine	76	Master Oblong Links	63	Tie Down, Cable and Chain	89
Passing Link	76	Master Rings	63	Toggle Block	35
Plastic	77	Mil Spec Cable	8-9	Tow Cables	91
Safety	79	Military Fittings	10-12	Triangles	69
Sash	79	Pear Shape Weldless Links	63	Turnbuckles	29-33, 54
Sling	59	Pulleys	49	Web Slings	67-71
Utility	75	Quick Links	48, 57	Welded Master Link Assembly	63
Chokers	69	Rings for Main-lines	87	Wire Rope & Cable	18-23
Coated Cable	14-17	Round Rings	49	Wire Rope Clips	28, 51
Cold Shuts	82	Roundslings	70	Wire Rope Cutters	83
Concrete Anchors	90	“S” Hooks	48, 56, 80	Wire Rope Slings	64-65
Connecting Links	82	Shackles	34-35, 55	Whip Restraints	91
Cutters	82-83	Shank Balls	12, 44	Winch Cables	91
Eyelets	13	Sheaves	49		

Dear Customers,

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

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

I would like to take this opportunity to thank all of you for your trust and support through the years. Our excellent business relationship is taking us to the top. With your help, we are celebrating 15 years in business.

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

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

I remain at your service,

Benoît Frappier,
CEO

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

In the background, an artistic creation
made of wire rope.



CABLE ASSEMBLIES

AS 9100
ISO 9001
MIL-SPEC



COATED CABLES



CABLES & WIRE ROPE



ACCESSORIES



STAINLESS STEEL ACCESSORIES



LIFTING



CHAIN



TOOLS



FORESTRY TRANSPORT ASSEMBLIES



CONVERSION TABLE GLOSSARY SALES CONDITIONS



BEN-MOR TEAM



The Cable Assemblies Specialists

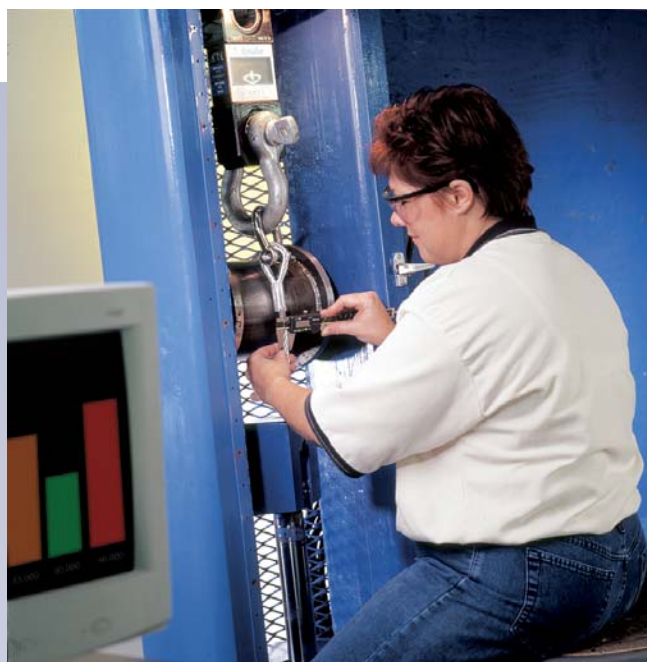


Precision-Machined Components

CNC lathes and milling machines, custom-built deep hole drilling equipment, and a full complement of secondary machines gives us the ability to manufacture fittings for many of our assembly requirements.



Assembly



Superior Quality Control

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

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





Automated precise cuts



High quality swaging



With a variety of hydraulic swagers and rotary swaging machines, we are capable of swaging 3/64" through 1 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.

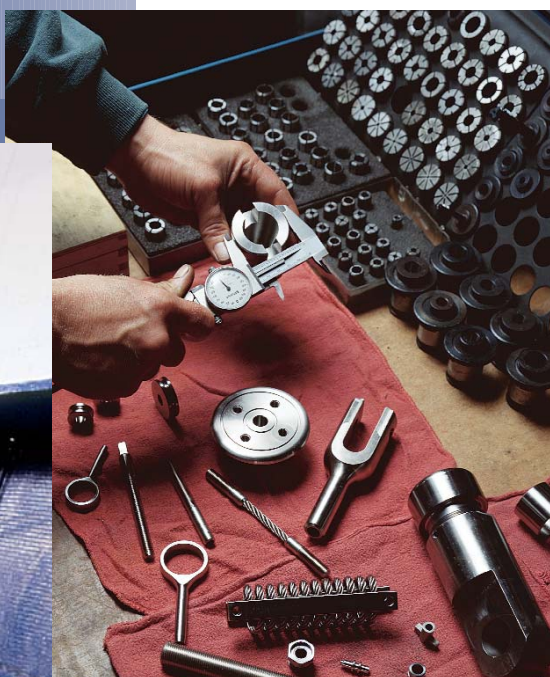


Zinc Die Cast Technology

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

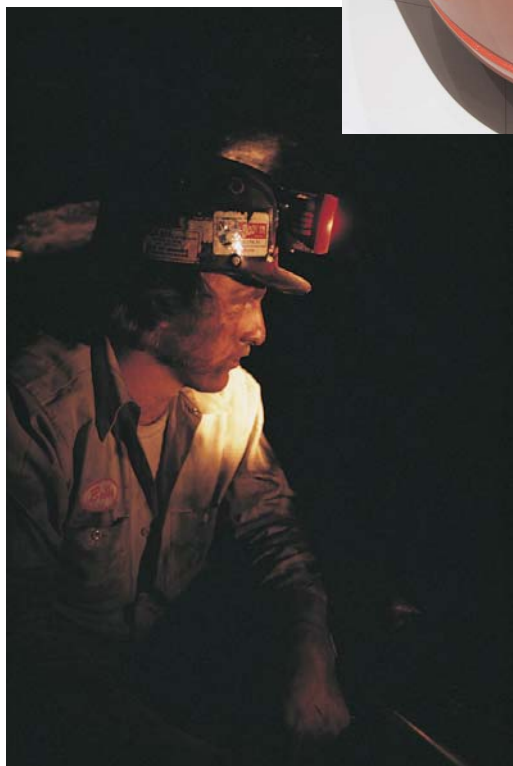
The benefits of zinc die cast termination to consider when designing your cable assembly are:

- **High Strength:** Zinc die cast termination will exceed the nominal published breaking strength of the cable in most cases.
- **Expanded Design Advantages:** Allows shapes to meet specific needs that would not be feasible with swaged fittings.

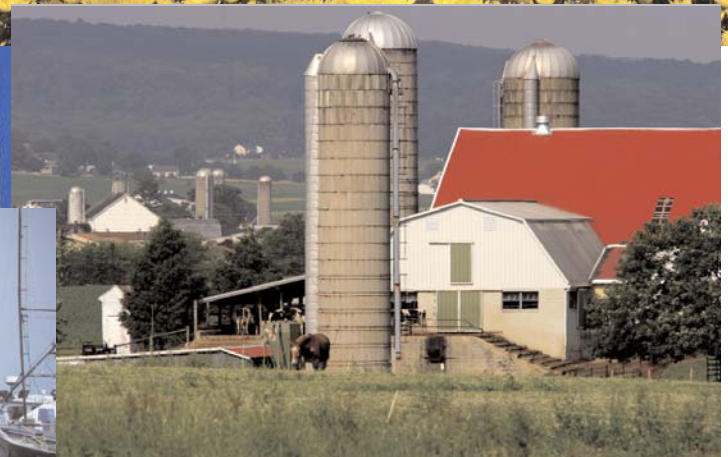
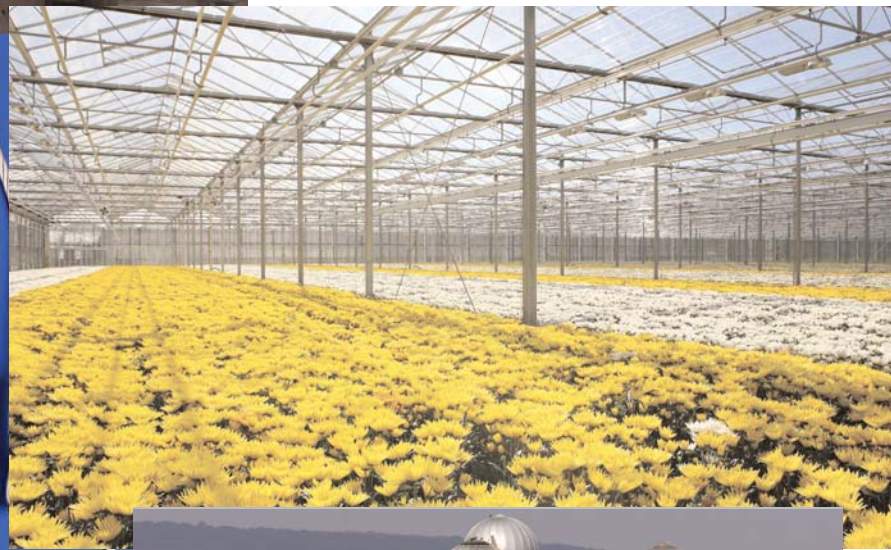




On earth, in the sky or on the sea...



Endless possibilities !





AS 9100
ISO 9001
MIL-DTL-83420

North American
Made Quality



New Hampshire

North American Made Quality



AS 9100
ISO 9001
MIL-SPEC

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

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

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

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



MIL-DTL-83420

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

- Steel composition
- Tin and zinc coating composition
- Lubricant
- Construction
- Wire properties
- Performing
- 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.

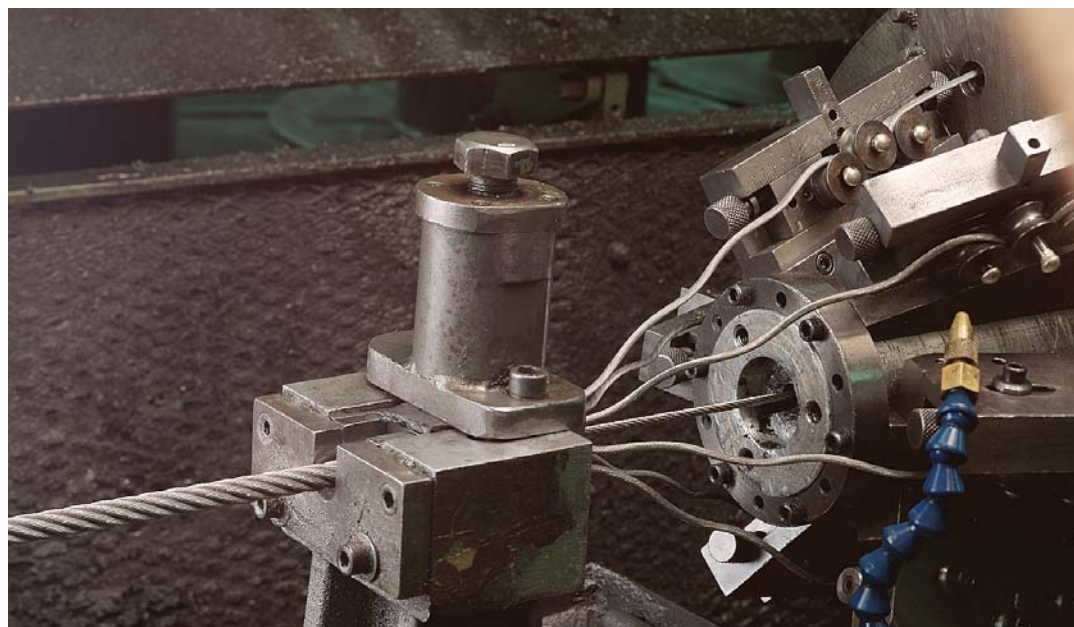
Type 1 - Comp A - Galvanized

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

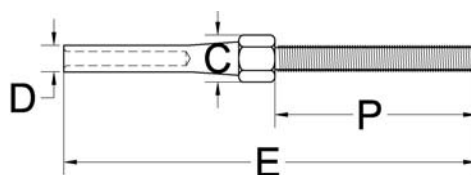
Type 1 - Comp B - Stainless Steel 302/304

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.



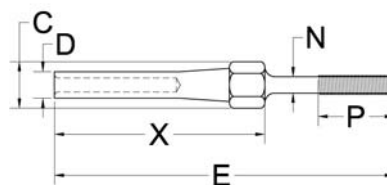
Threaded Aircraft Fittings MS21259 (Stainless Steel)



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

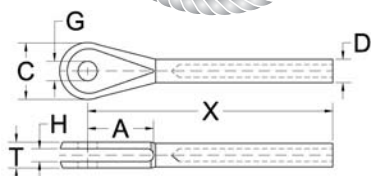
*Available on request: Left-hand thread.

Threaded Aircraft Fittings MS21260 (Stainless Steel)



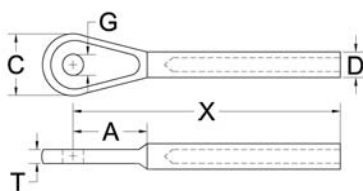
RH or LH Thread Code	For Cable Diameter in.	Weight ea. lbs	Thd. B NF-3A or UNF-3A	Dimensions in.							
				C	D Before swage	D After swage	E ± .063 Before swage	E After swage	N + .006 - .000	P ± .047	X After swage
MS21260- L-2 S-2	1/16	0.010 0.011	6-40	.188	.160	.138	3.491 2.616	3.669 2.794	.092	.375	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.



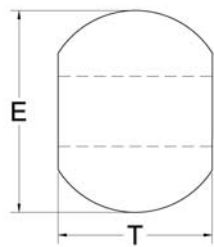
Aircraft Jaw Fitting MS20667
(Stainless Steel)

Code	For Cable Diameter in.	Weight ea. lbs.	Dimensions in.									
			A	C	D Before swage	D After swage	G		H ±.003	T +.010 -.005	X Before swage	X After swage
							Dia.	Tol.				
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



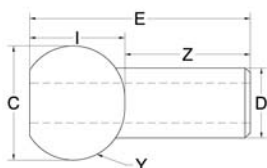
Aircraft Eye Fitting MS20668
(Stainless Steel)

Code	For Cable Diameter in.	Weight ea. lbs.	Dimensions in.									
			A ±.020	C	D Before Swage	D After swage	G		T		X Before swage	X After swage
							Dia.	Tol.	Dia.	Tol.		
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)

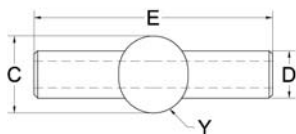
Code	For cable diameter in.	Min. Breaking Strength lbs	Weight / ea. lbs.	Dimensions in.				
				E Before swage		E After swage	T Before swage	
				Max	Min		Max	Min
BA3-1	3/64	215	0.002	.211	.208	.188	.141	.137
BA3-2	1/16	385	0.0017	.211	.208	.188	.141	.137
BA3-3	3/32	735	0.004	.288	.284	.250	.174	.170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



Shank Ball MS20664 (Stainless Steel)

Code 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)

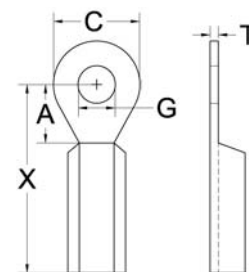
Code Cor. Res. Steel	Nom. Cable Diameter in.	Weight / ea. lbs.	Dimensions in.						
			C Before swage	C After swage	D Before swage	D After swage	E Before swage	E After swage	Y Max. Rad.
MS20663-C2	1/16	.0016	.207	.190	.127	.112	.362	.390	.014
MS20663-C3	3/32	.0032	.277	.253	.163	.143	.525	.578	.019
MS20663-C4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

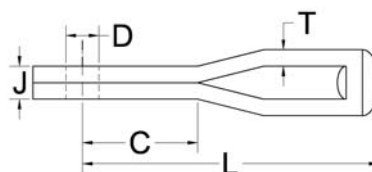
**2403-04, 2401-04, 2413-04, & 2411-04 holds 1600 lbs. max.

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.

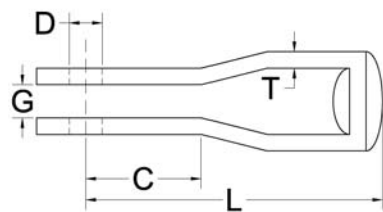
Stainless Strap Eye with markings

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.	Approx. Weight 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)



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

Hooked on SERVICE



Polyvinyl Chloride “Vinyl or PVC”:

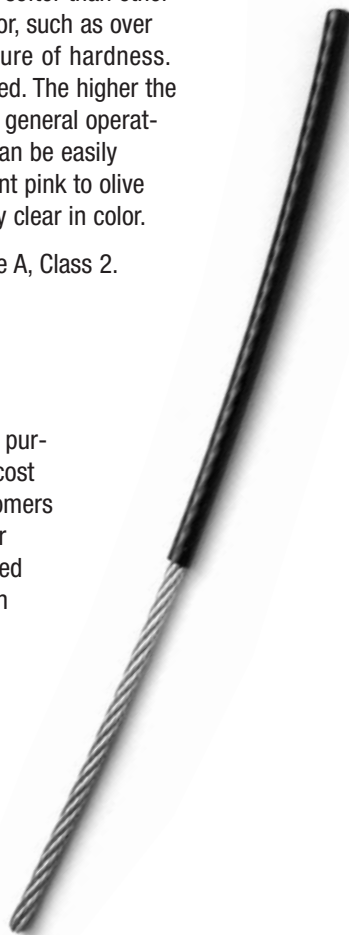
Vinyl is soft, flexible, and economical. It is the most common plastic extruded over steel cable. It offers good weathering resistance and outstanding resistance to ultra violet rays of the sun which degrades many plastics over time. Vinyl has good resistance to water and some resistance to acids and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

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

Nylons:

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

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





Other Plastics

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

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

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

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

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

TOLERANCES

Standard outside diameter tolerances for plastic coated cables.

O.D. of Jacket	Standard Tolerance
Up to .125" (1/8")	+/- .005"
.126" to .250" (1/4")	+/- .006"
.251" to .375" (3/8")	+/- .008"
.376" to .625" (5/8")	+/- .010"

WARNING

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

CUSTOMER SUPPLIED MATERIAL

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

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

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





Cables & Wire Rope

Aircraft Cable and Preformed Strand

Galvanized				
Construction	Code *	Diameter in.	Minimum Breaking Strength lbs.	Weight per 100 ft lbs.
Soft guy wire	11617S0FT	1/16	100	0.85
	56417S0FT	5/64	150	1.4
	33217S0FT	3/32	250	2.0
	01817S0FT	1/8	520	3.3
 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
	01217GEHS	1/2	26,900	52.0
	91617GEHS	9/16	35,000	67.0
	364119G	3/64	375	0.55
	116119G	1/16	500	0.85
	564119G	5/64	800	1.4
 1 x 19	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
	36477G	3/64	270	0.42
	11677G	1/16	480	0.75
	56477G	5/64	650	1.1
 7 x 7	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
	116719G	1/16	480	0.75
 7 x 19	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	11677GBLO	1/16	480	0.75
 7 x 19	018719GBLO	1/8	2,000	2.9
	316719GBLO	3/16	4,200	6.5

Black oxide : Gives galvanized cable a black matte finish





Stainless Steel

Stainless Steel 304

Construction	Code *	Diameter in.	Minimum Breaking strength lbs.	Weight per 100 ft lbs.
 1 x 7	1641754	1/64	40	0.055
	1321754	1/32	185	0.23
	3641754	3/64	375	0.55
	1161754	1/16	500	0.85
	5641754	5/64	800	1.4
	3321754	3/32	1,200	2.0
	0181754	1/8	2,100	3.5
	3161754	3/16	4,700	7.3
	01417S4EHS	1/4	8,500	13.7
	03817S4EHS	3/8	18,000	24.3
	01217S4EHS	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
 7 x 19	01277S4	1/2	23,300	44.0
	116719S4	1/16	480	0.75
	332719S4	3/32	920	1.6
	018719S4	1/8	1,760	2.9
	532719S4	5/32	2,400	4.5
	316719S4	3/16	3,700	6.5
	732719S4	7/32	5,000	8.6
	014719S4	1/4	6,400	11.0
	516719S4	5/16	9,000	17.3
	038719S4	3/8	12,000	24.3

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

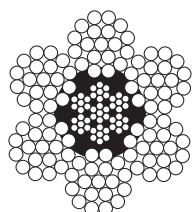
Stainless Steel

Stainless Steel 316

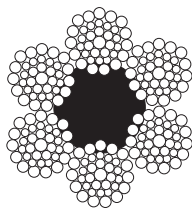
Construction	Code *	Diameter in.	Minimum Breaking strength lbs.	Weight per 100 ft lbs.
 1 x 7	01417S6EHS	1/4	7,650	13.7
	03817S6EHS	3/8	16,200	24.3
	01217S6EHS	1/2	30,200	52.0
 1 x 19	018119S6	1/8	1,780	3.3
	532119S6	5/32	2,800	5.5
	316119S6	3/16	4,000	7.7
	014119S6	1/4	6,900	13.5
	516119S6	5/16	10,600	21.0
	038119S6	3/8	14,800	30.1
 7 x 7	012119S6	1/2	27,000	52.0
	11677S6	1/16	360	0.75
	33277S6	3/32	700	1.6
	01877S6	1/8	1,360	2.85
	31677S6	3/16	2,875	6.2
	51677S6	5/16	7,600	16.7
 7 x 19	018719S6	1/8	1,300	2.9
	532719S6	5/32	2,000	4.5
	316719S6	3/16	2,900	6.5
	014719S6	1/4	4,900	11.0
	516719S6	5/16	7,600	17.3
	038719S6	3/8	11,000	24.3

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





6 x 19

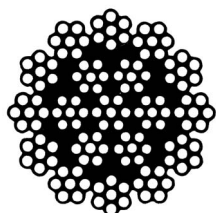


6 x 37

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

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

Cable larger than 1 1/2" available on request.



19 x 7

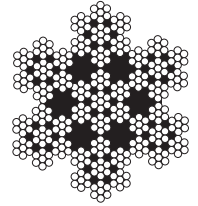
19 X 7 Non-rotating

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



Cable Laid (Galvanized) 7 X 7 X 7

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

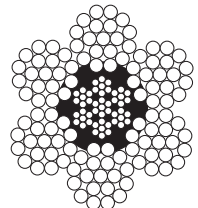


7 x 7 x 7

6 x 19/26 Stainless Steel



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

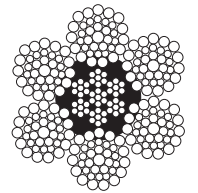


6 x 19

6 x 36/37 Stainless Steel



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



6 x 37

3 x 7 Swaged

Code	Diameter in.	Minimum Breaking Strength lbs.	Weight per 100 ft lbs.
31637BS	3/16	4,000	10



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	1 1/64	1/8 galvanized	4,000	8



Construction & Identification of Steel Wire Rope

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

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

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

Wire Rope Construction

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

Classification

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

Core

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

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

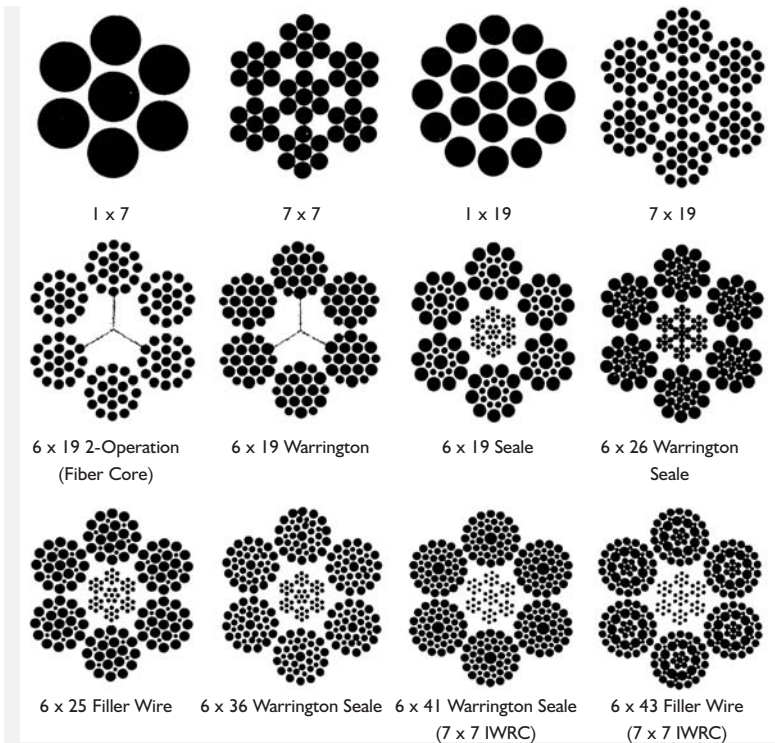
Grade

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

Lay

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

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





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

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

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

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

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

Rotation Resistant Wire Ropes

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

Selection

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

Lubrication

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

Corrosion

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



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



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



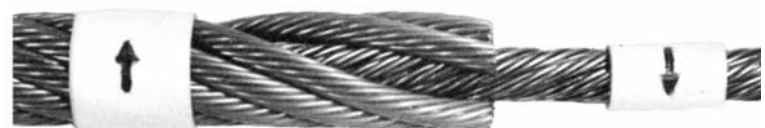
Left Regular Lay – Strands are laid to the left and wires appear in line with the rope.



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



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





Accessories

Aluminum Duplex Sleeves (Hour glass shape)



Code	For cable diameter 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 Oval Sleeves



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

Other sizes available on request.

Copper Duplex Sleeves or Copper Zinc Plated Duplex Sleeves



COS



CZOS

Code 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

Easier
Insertion

Aluminum Stop Sleeves, *chamfered*



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



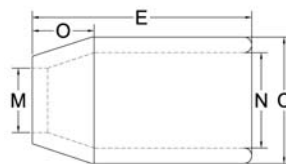
Copper Stop Sleeves

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



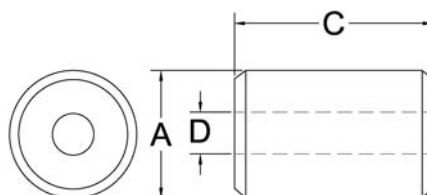
Steel Sleeves

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.)		
		A	C	D
SBS409018	.02	0.438	0.526	0.141
SBS409316	.04	0.568	0.737	0.203
SBS409014	.07	0.632	1.000	0.281
SBS409516	.15	0.852	1.150	0.344
SBS409038	.20	0.875	1.500	0.406
SBS409716	.39	1.136	1.684	0.469
SBS409012	.54	1.278	1.840	0.531
SBS409916	.73	1.420	2.040	0.594
SBS409058	1.07	1.562	2.421	0.656
SBS409034	1.36	1.704	2.720	0.797
SBS409078	2.24	2.000	3.263	0.938
SBS409001	3.27	2.272	3.684	1.063
SBS409118	4.59	2.563	4.050	1.187
SBS409114	7.89	2.840	4.560	1.320
SBS409112	11.01	3.408	5.470	1.578



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

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

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

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

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

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

EYE-SPLICE - OVAL SLEEVE OR DUPLEX

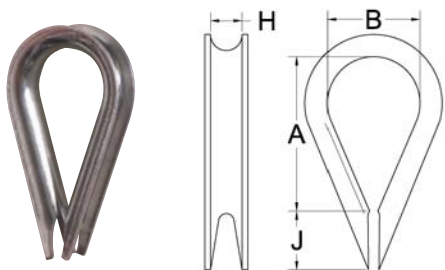
STOP SLEEVE



LAP SPLICE - OVAL SLEEVES OR DUPLEX

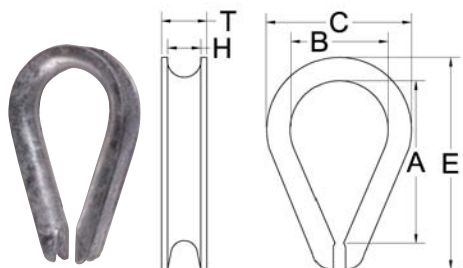


AN Thimbles (zinc plated)



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

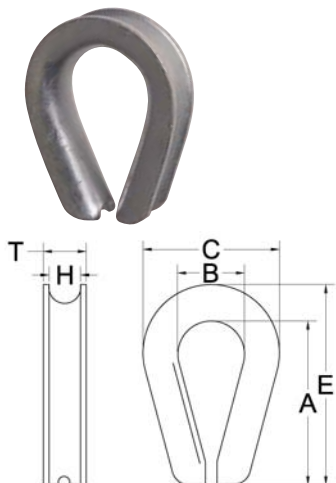
Standard Thimbles (galvanized)



Code	For cable diameter in.	Weight / ea. approx. lbs.	Dimensions in.					
			A	B	C	E	H	T
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.



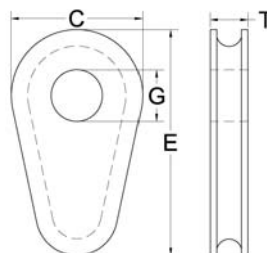
Round Eye Thimbles (zinc)

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



Solid Wire Rope Thimbles

Code	Cable diameter	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

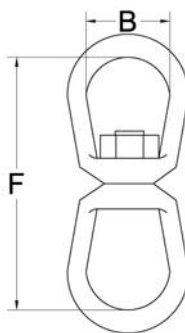


Eye & Eye Swivels (forged steel galvanized)

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

Safety Factor 5:1

Federal Specification : RR-C-271D

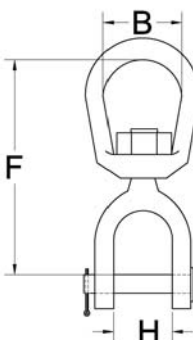


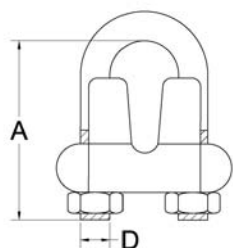
Jaw & Eye Swivels (forged steel galvanized)

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

Safety Factor 5:1

Federal Specification : RR-C-271D





Wire Rope Clips (malleable, zinc plated)

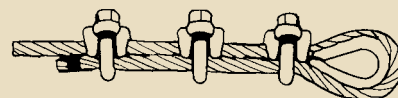
Code	For cable diameter in.	Weight / ea. lbs.	Dimensions in.		Nut Torque ft/lbs	Wire Rope Clips Min. Qty	Turn Back Length in.
			A Minimum	D Minimum			
WRCMA-116	1/16	0.03	0.630	8 - 32	1.0	2	3
WRCMA-018	3/32 - 1/8	0.04	0.780	10 - 24	1.8	2	3 1/4
WRCMA-316	3/16	0.06	0.875	10 - 24	2.6	2	3 3/4
WRCMA-014	1/4	0.12	1.188	5/16 - 18	12	3	4 3/4
WRCMA-516	5/16	0.14	1.188	5/16 - 18	12	3	5 1/4
WRCMA-038	3/8	0.21	1.563	3/8 - 16	18.5	4	6 1/2
WRCMA-716	7/16	0.27	1.625	3/8 - 16	18.5	4	7
WRCMA-012	1/2	0.35	2.000	7/16 - 14	25	4	11 1/2
WRCMA-058	5/8	0.58	2.313	1/2 - 13	35	—	12
WRCMA-034	3/4	0.84	2.563	9/16 - 12	50	—	18
WRCMA-078	7/8	1.24	3.063	5/8 - 11	100	—	19
WRCMA-001	1	1.50	3.375	5/8 - 11	100	—	26
WRCMA-118	1 1/8	2.60	3.875	3/4 - 10	140	—	34
WRCMA-114	1 1/4	?	3.875	3/4 - 10	140	—	44

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

Instructions for use of Wire Rope Clips :

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

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



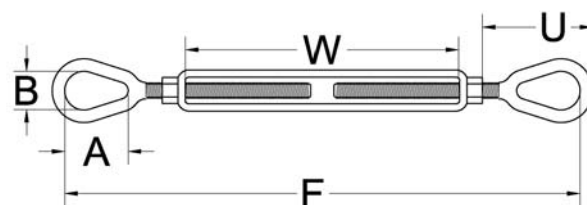
Wire Rope Clips (drop-forged, galvanized)

Code	For cable diameter in.	Weight / ea. lbs.	Dimensions in.		Nut Torque ft/lbs	Wire Rope Clips Min. Qty	Turn Back Length in.
			A Minimum	D Minimum			
WRCDF-018	1/8	0.06	0.719	12 - 24	2.8	2	3 1/4
WRCDF-316	3/16	0.10	0.938	1/4 - 20	5.5	2	3 3/4
WRCDF-014	1/4	0.19	1.031	5/16 - 18	12	2	4 3/4
WRCDF-516	5/16	0.28	1.313	3/8 - 16	18.5	2	5 1/4
WRCDF-038	3/8	0.48	1.500	7/16 - 14	25	2	6 1/2
WRCDF-716	7/16	0.76	1.875	1/2 - 13	35	2	7
WRCDF-012	1/2	0.80	1.875	1/2 - 13	35	3	11 1/2
WRCDF-916	9/16	1.04	2.250	9/16 - 12	50	3	12
WRCDF-058	5/8	1.10	2.375	9/16 - 12	50	3	12
WRCDF-034	3/4	1.42	2.750	5/8 - 11	100	4	18
WRCDF-078	7/8	2.12	3.125	3/4 - 10	140	4	19
WRCDF-001	1	2.52	3.500	3/4 - 10	140	5	26
WRCDF-118	1 1/8	2.90	3.875	3/4 - 10	140	6	34
WRCDF-114	1 1/4	4.30	4.250	7/8 - 9	275	7	44

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



Galvanized Turnbuckles, drop-forged

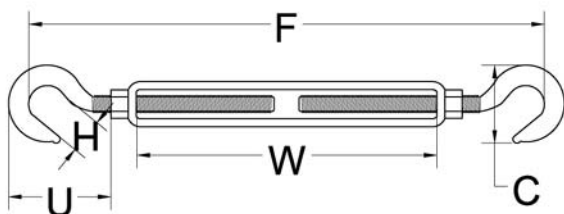


Galvanized Turnbuckles (EYE & EYE), drop-forged

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
TEG-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.

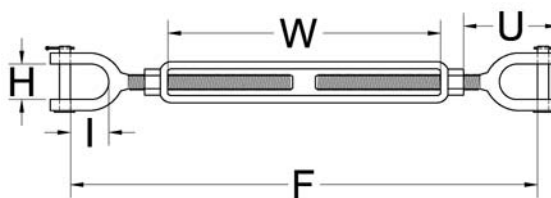


Galvanized Turnbuckles (HOOK & HOOK), drop-forged

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.



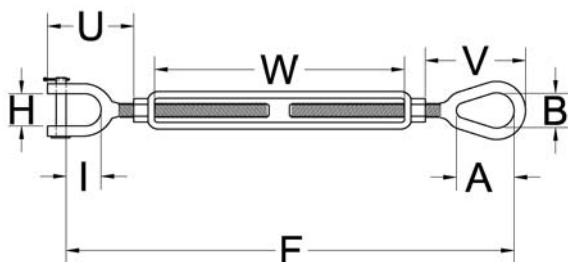
Galvanized Turnbuckles (JAW & JAW), drop-forged

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
TJJ-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.



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.

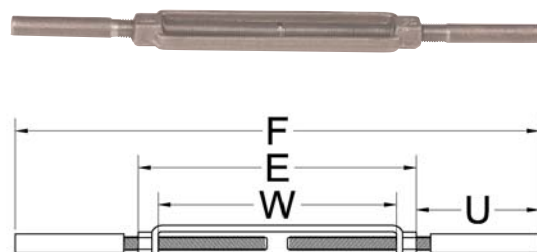


Stub end Turnbuckles, self colored, drop forged

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-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-11212	1 1/2 x 12	21,400	20.44	15.75	26.5	5.38	12.0

Safety Factor 5:1

Federal Specification : FF-T-791B

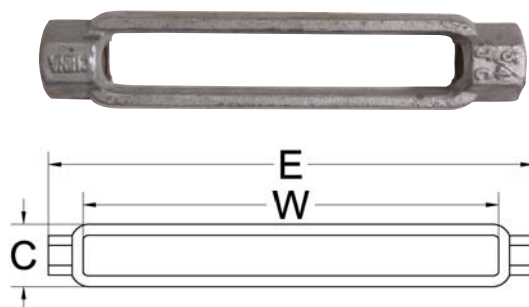


Turnbuckles (body only) galvanized, drop forged

Code	Size Diameter x Take-Up in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.		
				C	E	W
TBG-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-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-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

Safety Factor 5:1

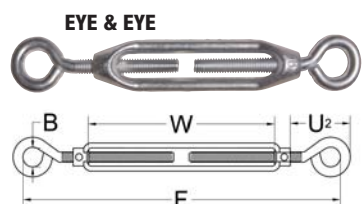
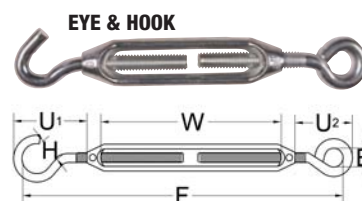
Federal Specification : FF-T-791B Other diameters and/or color available upon request.



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

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



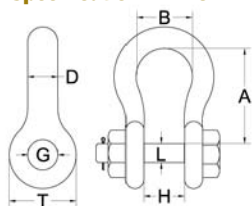


Bolt Type Anchor Shackles, rated (drop forged, galvanized)

Code	Size in.	Working Load Limit Ton	Weight / ea. lbs	Dimensions in.								
				A		B Min	D Min	G Max	H		L Min	T Max
				Nominal	±				Nominal	±		
SPAS2130G012	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
SPAS2130G058	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
SPAS2130G034	3/4	4 3/4	2.72	2 27/32	1/4	1 3/4	3/4	31/32	1 1/4	1/16	7/8	2 1/8
SPAS2130G078	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
SPAS2130G001	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
SPAS2130G118	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
SPAS2130G114	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
SPAS2130G138	1 3/8	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
SPAS2130G112	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
SPAS2130G134	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
SPAS2130G002	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
Safety Factor 6:1												

Safety Factor 6:1

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

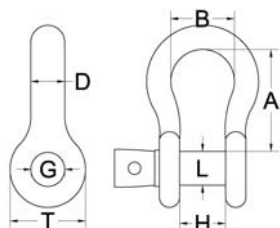


Screw Pin Anchor Shackles, rated (drop forged, galvanized)

Code	Size in.	Working Load Limit Ton	Weight / ea. lbs.	Dimensions in.								
				A		B Min	D Min	G Max	H		L Min	T Max
				Nominal	±				Nominal	±		
SPASX-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-212	2 1/2	55	85.0	10 1/2	1/2	6 3/4	2 1/2	2 29/32	4 1/8	1/8	2 3/4	6 1/4
Safety Factor 6:1												

Safety Factor 6:1

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





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



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



Toggle Block (Tail Board)

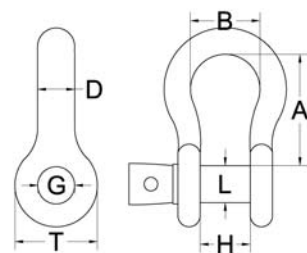
Code	For cable diameter in.	Pulley Diameter in.	Working Load Limit Ton	Weight ea. lbs
K4040-002	3/8	3	2	2
K4040-004	1/2	4 1/2	4	7.5

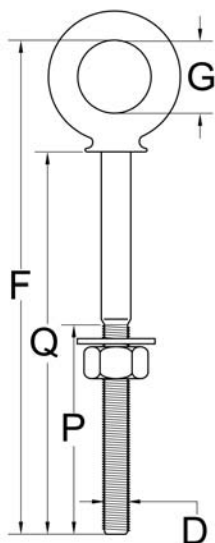


Screw Pin Anchor Shackles, non-rated (drop forged, galvanized)

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





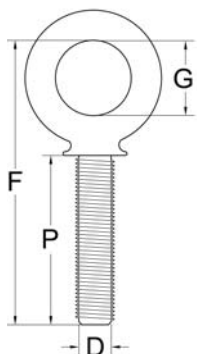
Shoulder Nut Eye Bolts (galvanized, drop-forged)

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

Safety Factor 5:1

N.B. : UNC Thread

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



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

Safety Factor 5:1

N.B. : UNC Thread

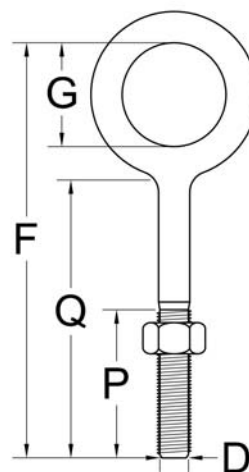


Regular Nut Eye Bolts (galvanized, drop-forged)

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

Safety Factor 5:1

N.B. : UNC Thread

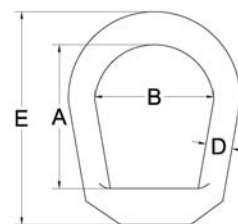


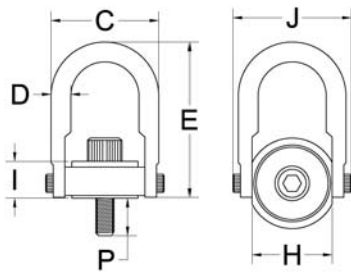
Eye Nuts (galvanized, drop-forged)

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

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-516332	800	5/16-13	1 5/8	3/8	2 5/8	1	45/64	1 27/32	3/32	7	0.3
SHR-5161732	800	5/16-18	1 5/8	3/8	2 5/8	1	45/64	1 27/32	17/32	7	0.3
SHR-0381732	1,000	3/8-16	1 5/8	3/8	2 5/8	1	45/64	1 27/32	17/32	12	0.3
SHR-0121116	2,500	1/2-13	2 7/16	1/2	3 3/4	1 13/32	56/64	2 9/16	1 1/16	26	1.0
SHR-012034	2,500	1/2-13	3 1/4	3/4	4 3/4	2	1 7/32	3 1/2	3/4	26	2.6
SHR-012001	2,500	1/2-13	3 1/4	3/4	4 3/4	2	1 7/32	3 1/2	1	28	2.6
SHR-012114	2,500	1/2-13	3 1/4	3/4	4 3/4	2	1 7/32	3 1/2	1 1/4	28	2.6
SHR-058034	4,000	5/8-11	3 1/4	3/4	4 3/4	2	1 7/32	3 1/2	3/4	60	2.6
SHR-058001	4,000	5/8-11	3 1/4	3/4	4 3/4	2	1 7/32	3 1/2	1	60	2.6
SHR-058114	4,000	5/8-11	3 1/4	3/4	4 3/4	2	1 7/32	3 1/2	1 1/4	60	2.6
SHR-034001a	5,000	3/4-10	3 1/4	3/4	4 3/4	2	1 7/32	3 1/2	1	100	3.0
SHR-034112a	5,000	3/4-10	3 1/4	3/4	4 3/4	2	1 7/32	3 1/2	1 1/2	100	3.0
SHR-034001b	7,000	3/4-10	4 13/16	1	6 1/2	3	1 11/16	5 9/16	1	100	7.0
SHR-034112b	7,000	3/4-10	4 13/16	1	6 1/2	3	1 11/16	5 9/16	1 1/2	100	7.0
SHR-078001	8,000	7/8-9	4 13/16	1	6 1/2	3	1 11/16	5 9/16	1	160	7.0
SHR-001114	10,000	1-8	4 13/16	1	6 1/2	3	1 11/16	5 9/16	1 1/4	230	7.5
SHR-001112	10,000	1-8	4 13/16	1	6 1/2	3	1 11/16	5 9/16	1 1/2	230	7.5
SHR-001214	10,000	1-8	4 13/16	1	6 1/2	3	1 11/16	5 9/16	2 1/4	230	7.5
SHR-114002	15,000	1 1/4-7	5	1 1/4	8 3/4	3 3/4	2 7/64	6 1/2	2	470	14.0
SHR-112234	24,000	1 1/2-6	8	1 3/4	12 15/32	4 7/8	2 13/16	8 35/64	2 3/4	800	34.0
SHR-002003	30,000	2 1/2-4	8	1 3/4	12 15/32	4 7/8	2 13/16	8 35/64	3	800	36.0
SHR-212004	50,000	2 1/2-4	10 1/2	2 1/4	18 7/8	6 1/2	4 3/32	11 43/64	4	2,100	88.0
SHR-003514	75,000	3-4	13	2 3/4	19 1/2	8 7/64	5 17/64	14 5/32	5 1/4	4,300	166.0
SHR-312007	100,000	3 1/2-4	14	3 1/4	22 3/32	8 7/64	6 1/16	15 29/32	7	5,100	265.0

Safety Factor 6:1

Metric Swivel Hoist Rings

Code	Min. Load 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

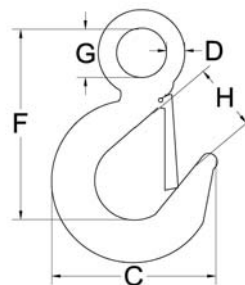
Safety Factor 6:1



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

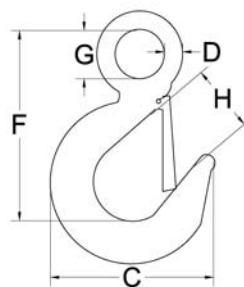
Safety Factor 5:1



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-412C	4 1/2	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

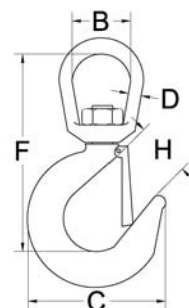
Safety Factor 5:1



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

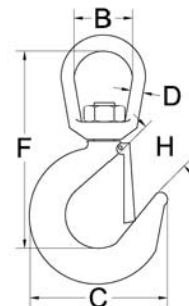
Safety Factor 5:1



Swivel Hooks with latch (carbon, zinc plated)

Code	Working Load Limit lbs.	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

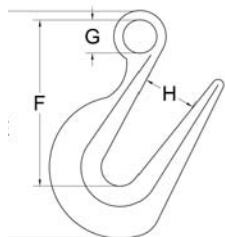


Safety Latch Kits (stainless steel)

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





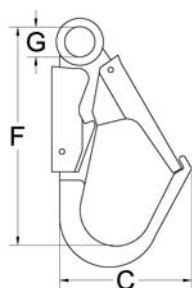
Sorting Hooks (alloy)

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	9 3/16	1.38	2.81

Safety Factor 4:1



BM-5316



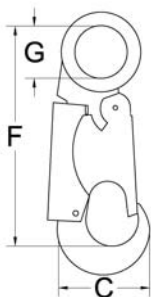
Eye Slip Tow and Land Yard Hooks (zinc plated steel)

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

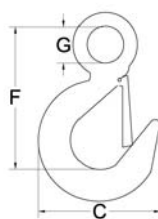
Safety Factor 5:1



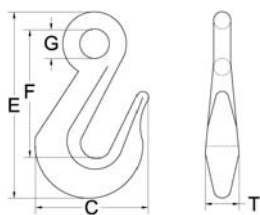
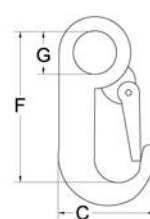
BM-5315



BM-5555



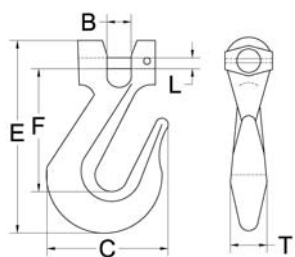
BM-BC53



Eye Grab Hooks (Gr. 40 zinc plated)

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

Safety Factor 4:1



Clevis Grab Hooks (Gr. 40, Zinc Plated)

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

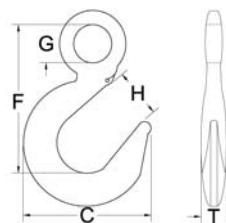
Safety Factor 4:1



Eye Slip Hooks (Gr. 40 zinc plated)

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

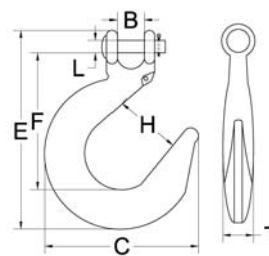
Safety Factor 4:1



Clevis Slip Hooks (Gr. 40, zinc plated)

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

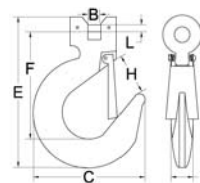
Safety Factor 4:1



Clevis Slip Hooks (Gr. 70, gold chromate)

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

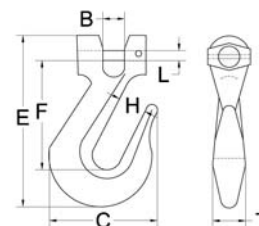
Safety Factor 4:1



Clevis Grab Hooks (Gr. 70, gold chromate)

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

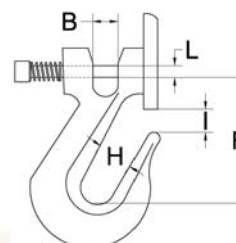
Safety Factor 4:1

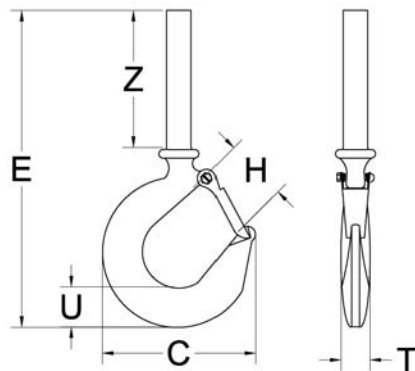


Clevis Grab Hooks with latch (Gr. 70, gold chromate)

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

Safety Factor 4:1



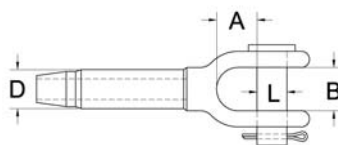


Shank Hooks, with latch (carbon)

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

Safety Factor 5:1

Open Swage Sockets (forged steel)



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

ISO 9001:2000

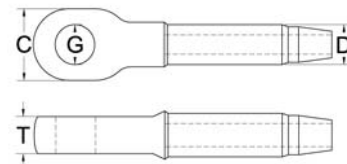
Quality at Ben-Mor ...

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



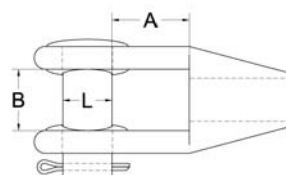
Closed Swage Sockets (forged steel)

Code	For cable diameter in.	Weight ea. lbs.	Dimensions in.				
			C	D Before swage	D After swage	G	T
S502-014	1/4	0.35	1 7/16	.495	.438	.750	1/2
S502-516	5/16	0.77	1 11/16	.770	.688	.875	1 1/16
S502-038	3/8	0.73	1 11/16	.770	.688	.875	1 1/16
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



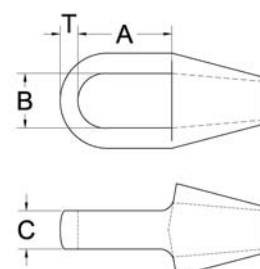
Open Spelter Sockets (forged steel, galvanized)

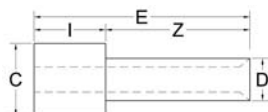
Code	For cable diameter in.	(G416 - G417) Wirelock Req. cc	Weight ea. lbs.	Dimensions in.		
				A	B	L
G416-014	1/4	9	0.90	1.219	1 1/16	1 1/16
G416-516	5/16	17	1.30	1.344	1 3/16	1 3/16
G416-038	3/8	17	1.30	1.344	1 3/16	1 3/16
G416-716	7/16	35	2.30	1.000	1	1
G416-012	1/2	35	2.30	1.000	1	1
G416-916	9/16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

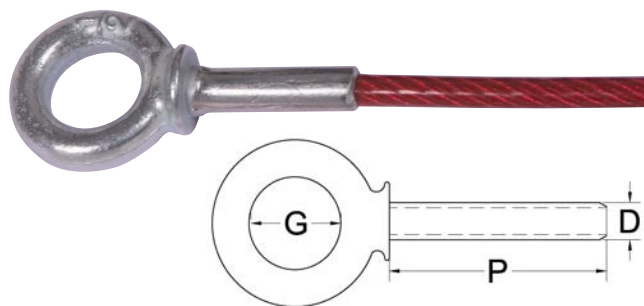




Ben-Mor Single Shank Balls

Code	For diameter cable 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)

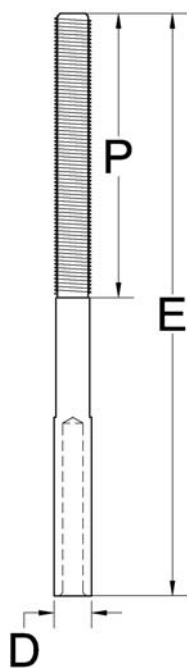
Code	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.		
			D	G	P
BM-55830	2400	0.35	1/2	1	1 1/2

Safety Factor 5:1

Other dimensions available upon request

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

Ben-Mor Threaded Studs



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

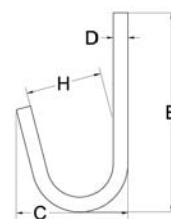
Available on request : Stainless steel, Left-Hand thread, metric thread, fine thread. Custom made for cables up to 1 1/2".
Other dimensions available upon request.



Stake Hooks

Code	For cable diameter in.	Weight ea. lbs.	Dimensions in.				
			C	D Before swage	D After swage	E	H
BM100-009	1/8	0.220	1 3/16	0.03	0.250	2	0.625

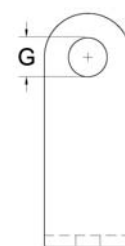
Available in zinc plated steel.



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

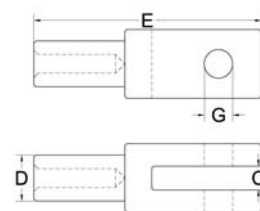
Available in steel natural finish and zinc plated.



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

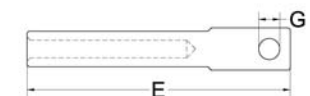
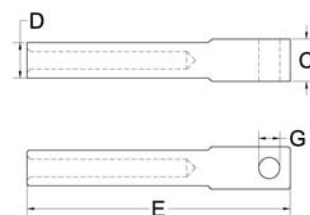
Available in steel natural finish and zinc plated. Custom made for cables up to 1 1/2". Other dimensions available upon request.



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.





Code : 70823
Description : Swivel Lever Snap
Zinc, Nickel plated
Dimension Eye : 1"
Length : 3 1/2"
Std Pack : 6



Code : 70824 (Vrac / Bulk : 3142)
Description : Heavy Duty Swivel Snap
Steel, Nickel plated
Dimension Eye : 1"
Length : 3 3/4"
Std Pack : 6



Code : 70825
Description : Spring Snap (square eye)
Zinc, Nickel plated
Dimension Eye : 1"
Length : 3"
Std Pack : 6



Code : 70827
Description : Panic Snap
Zinc, Nickel plated
Dimension Eye : 1/2"
Length : 3 3/4"
Std Pack : 6



Code : 70828 (Bulk : S5-3)
Description : Swivel Lock Snap
Zinc, Nickel plated
Dimension Eye : 3/4"
Length : 3 1/2"
Std Pack : 12



Code : 70829 (Bulk : S5-3MNP)
Description : Swivel Lock Snap
Zinc, Nickel plated
Dimension Eye : 1/2"
Length : 3"
Std Pack : 12



Code : 70830
Description : Swivel Lever Snap
Brass
Dimension Eye : 3/4"
Length : 3 3/4"
Std Pack : 6



Code : 70831
Description : Simplex Snap
Zinc, Nickel plated
Dimension Eye : -
Length : 3 1/4"
Std Pack : 6



Code : 70832 (Bulk : S5-1)
Description : Swivel Lock Snap
Zinc, Nickel plated
Dimension Eye : 3/8"
Length : 2"
Std Pack : 6



Code : 70810
 Description : Spring Snap (Zc)
Zinc, Nickel plated
 Dimension Eye : 3/8"
 Length : 1 3/4"
 Std pack : 12



Code : 70812
 Description : Swivel Spring Snap
Zinc, Nickel plated
 Dimension Eye : 3/8"
 Length : 2 1/4"
 Std Pack : 12



Code : 70813
 Description : Opened Swivel Snap
Zinc, Nickel plated
 Dimension Eye : 3/8"
 Length : 2 1/4"
 Std Pack : 12



Code : 70816
 Description : Swivel Lever Snap
Zinc, Nickel plated
 Dimension Eye : 5/8"
 Length : 3 1/4"
 Std Pack : 12



Code : 70819
 Description : Scissor Snap
Zinc, Nickel plated
 Dimension Eye : 5/8"
 Length : 2 1/2"
 Std Pack : 12



Code : 70820
 Description : Swivel Lock Snap
Brass
 Dimension Eye : 3/4"
 Length : 3"
 Std Pack : 6



Code : 70821
 Description : Swivel Lever Snap (br)
 Dimension Eye : 5/8"
 Length : 3 1/4"
 Std Pack : 6

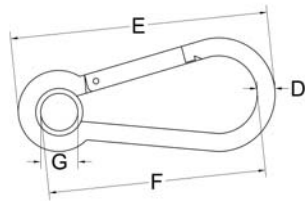


Code : 70822
 Description : Double Lock Snap
Zinc, Nickel plated
 Dimension Eye : –
 Length : 4"
 Std Pack : 6

Ben-Mor Snap Hook

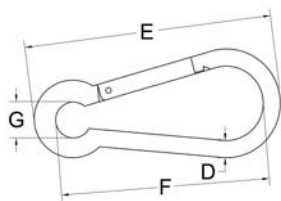


Code	Length in.	Breaking Strength lbs.	For cable diameter in.	Weight ea. lbs.
BM844-A-NP	2 1/2	500	3/32	0.082
BM844-B-NP	2 1/8	500	1/8	0.079
BM830-2-NP	2 3/4	1,000	1/8	0.192



Carbine Snap Hooks with Eyelets (zinc plated)

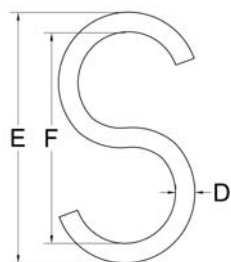
Code	Working Load Limit Lbs	Weight / ea. lbs	Dimensions in.				
			D		E	F	G
			in.	mm			
S8-1	100	0.04	3/16	5	1.97	1.586	0.197
S8-2	140	0.06	1/4	6	2.36	1.894	0.197
S8-3	240	0.15	5/16	8	3.15	2.449	0.315
S8-4	400	0.32	3/8	10	3.94	3.071	0.394
S8-5	560	0.60	1/2	12	5.51	4.470	0.512



Carbine Snap Hooks (zinc plated)

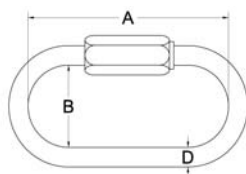
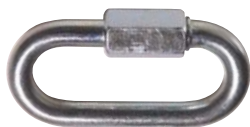
Code	Working Load Limit Lbs	Weight / ea. lbs	Dimensions in.				
			D		E	F	G
			in.	mm			
S10-1	100	0.04	3/16	5	1.97	1.614	0.197
S10-2	140	0.06	1/4	6	2.36	1.949	0.197
S10-3	240	0.15	5/16	8	3.15	2.545	0.315
S10-4	400	0.32	3/8	10	3.94	3.199	0.394
S10-4.5	485	0.42	7/16	11	4.72	3.960	0.433
S10-5	560	0.60	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	2.40	3/8	10



Quick links rated (zinc plated)

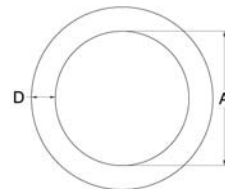
Code Zinc	Working Load Limit Lbs	Weight / ea. lbs	Dimensions in.			
			A	B	D	
					in.	mm
QLZ-018	220	0.03	1.00	0.335	1/8	3
QLZ-316	660	0.06	1.40	0.512	3/16	5
QLZ-014	880	0.09	1.77	0.571	1/4	6
QLZ-516	1,760	0.18	2.28	0.689	5/16	8
QLZ-038	2,640	0.28	2.72	0.808	3/8	10
QLZ-716	2,900	0.48	3.00	0.870	7/16	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



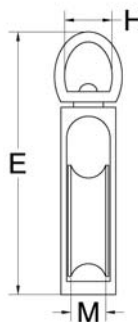
Round Rings (Nickel plated)

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



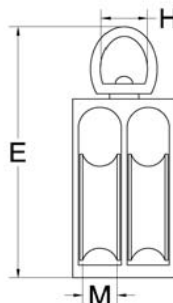
Zinc Swivel Eye Pulleys (single)

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
70725	2	6	4.220	.728	.383



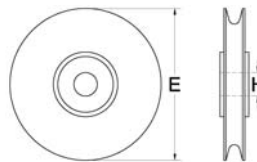
Zinc Swivel Eye Pulleys (double)

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



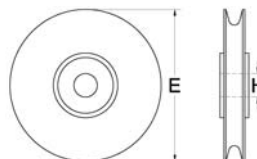
Zinc Sheave Black Oxide, Ball Bearing

Code	Cable diameter in.	Dimensions in.	
		E	H
BM100063BO	3/16	2	3/8



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)



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 303)



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

Other dimensions available upon request.

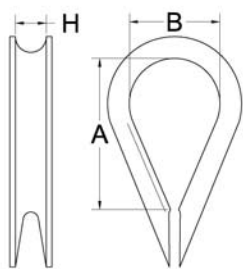
Oval Sleeves (Stainless Steel 304)



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.

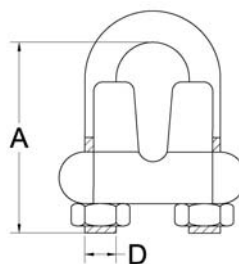
AN Thimbles (stainless steel 304)



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

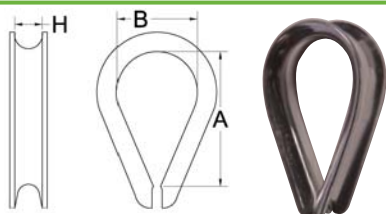
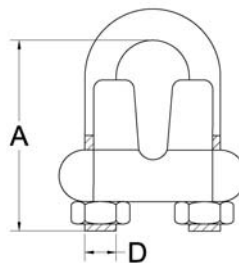
Wire Rope Clips (stainless steel 316)

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



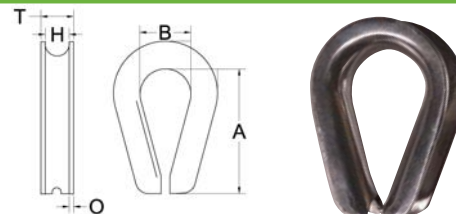
Wire Rope Clips (stainless steel 304)

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



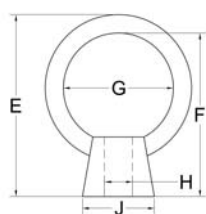
Standard Thimbles (stainless steel 304)

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



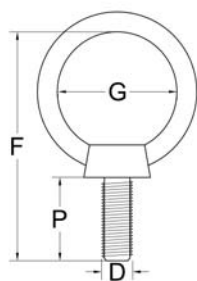
Heavy Duty Thimbles (stainless steel 316)

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



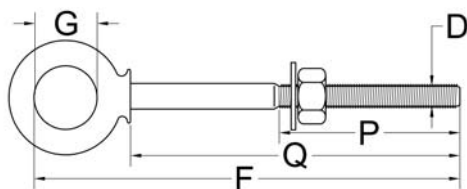
Eye Nuts (Stainless Steel)

Code	Working Load Limit Ton	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							



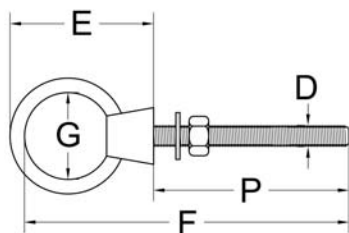
Lifting Eye Bolts (Stainless Steel 316)

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)

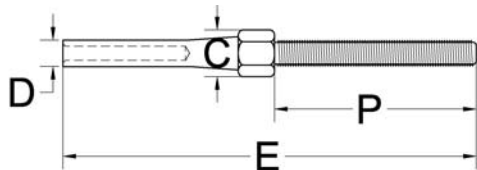
Code	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.				
			D	F	G	P	Q
SNEBS-014004	370	0.06	1/4	4 13/16	.495	2 5/8	4
SNEBS-516412	625	0.13	5/16	5 7/8	.620	2 7/16	4 1/2
SNEBS-038412	930	0.20	3/8	5 1/4	.759	2 1/2	4 1/2
SNEBS-012006	1,700	0.33	1/2	7 3/4	1.021	3	6
Safety Factor 5:1							



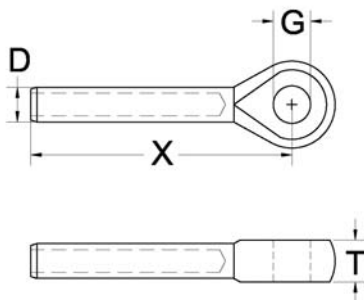
Shoulder Nut Eye Bolts Heavy Duty (Stainless Steel 316)

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							

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

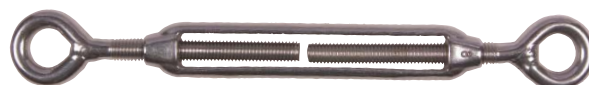


Marine Eyes EY1 (Stainless Steel)

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	0.488	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.	Code H & H	Size Diameter x Take-Up in.	Working Load Limit lbs.	Weight / ea. lbs.
			E & E / J & J			H & H	
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

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.	Code H & H	Size Diameter x Take-Up in.	Working Load Limit lbs.	Weight / ea. lbs.
			E & E / J & J			H & H	
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



Jaw and swage terminals (stainless steel 316)

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

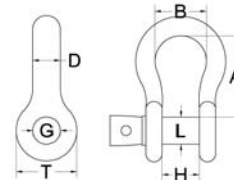


Screw Pin Shackles, bow type (stainless steel 316)

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

Safety Factor 5:1

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

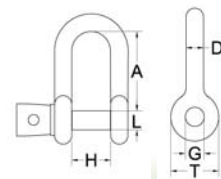


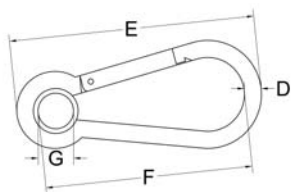
Screw Pin Shackles, chain type (stainless steel 316)

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

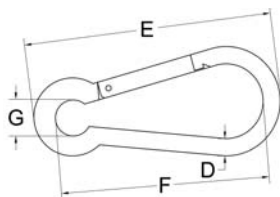
Do not use for lifting. Lifting application available on request.





Carbine Snap Hooks with Eyelets (stainless steel 316)

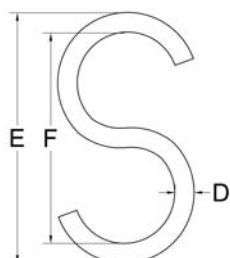
Code	Working Load Limit lbs	Weight / ea. lbs	Dimensions in.				
			D		E	F	G
			in.	mm			
S9-1	100	0.04	3/16	5	1.97	1.553	0.197
S9-2	140	0.06	1/4	6	2.36	1.918	0.197
S9-3	240	0.15	5/16	8	3.15	2.471	0.315
S9-4	400	0.32	3/8	10	3.94	3.036	0.394
S9-5	560	0.60	1/2	12	5.51	4.516	0.512



Carbine Snap Hooks (stainless steel 316)

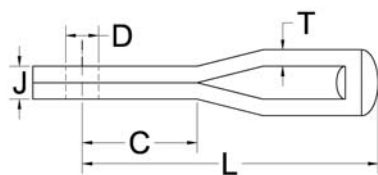
Code	Working Load Limit lbs	Weight / ea. lbs	Dimensions in.				
			D		E	F	G Min
			in.	mm			
S11-1	120	0.04	3/16	5	1.97	1.609	0.197
S11-2	160	0.06	1/4	6	2.36	1.945	0.197
S11-3	300	0.15	5/16	8	3.15	2.578	0.315
S11-4	400	0.32	3/8	10	3.94	3.146	0.394
S11-5	700	0.60	1/2	12	5.51	4.678	0.512

Safety Factor 5:1



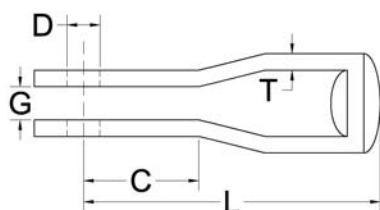
"S" Hooks (stainless steel 316)

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



Stainless Strap Eyes (Stainless Steel)

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

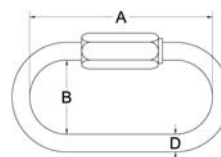


Stainless Strap Forks (Stainless Steel)

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

Quick links (stainless steel 316)

Code	Working Load Limit Lbs	Weight / ea. lbs	Dimensions in.			
			A	B	D	
					in.	mm
QLS-018	450	0.03	1.00	0.335	1/8	3
QLS-316	1,200	0.06	1.40	0.512	3/16	5
QLS-014	1,400	0.09	1.77	0.571	1/4	6
QLS-516	2,400	0.18	2.28	0.689	5/16	8
QLS-038	3,200	0.28	2.72	0.808	3/8	10
QLS-012	5,500	0.70	3.17	0.925	1/2	12
Safety Factor 2.5 : 1						



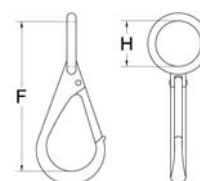
Swivel Eye Snaps (stainless steel 316)

Code	Working Load Limit 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



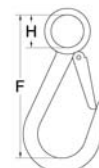
Fixed Eye Snaps (stainless steel 316)

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



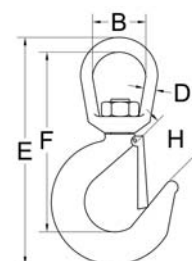
Safety Snap Hooks (stainless steel 316)

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



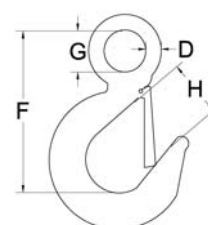
Swivel Hooks (stainless steel 316)

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	900	0.35	1/4	2.54	0.53	0.68
EHS-516	5/16	1,250	0.55	5/16	2.85	0.64	0.70
EHS-038	3/8	2,000	0.92	3/8	3.28	0.71	0.80
EHS-012	1/2	3,000	1.90	1/2	4.17	0.94	1.02
Safety Factor 5:1							





Lifting

We Build the Future





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

SINGLES



Type A



Type B



S00



S0F



S0G



S0S

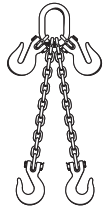


SSG



SSS

DOUBLES



Type A



Type B



DOF

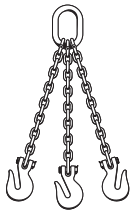


DOG



DOS

TRIPLES



TOG



TOS

QUADRUPLES



QOG



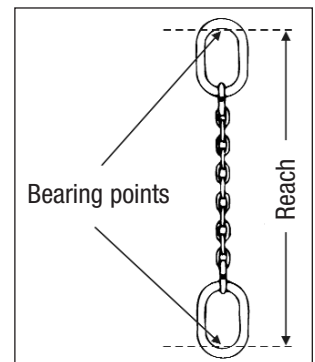
QOS

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

*See dimensions on page 63

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

*See dimensions on page 63

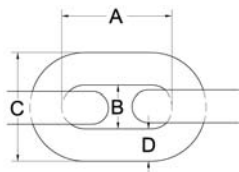


We offer a sling inspection and a sling cleaning service.



Alloy Lifting Chain Grade 80

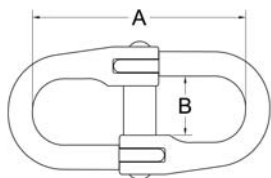
Grade 80 alloy chain is used for overhead lifting.



Code	Diameter 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

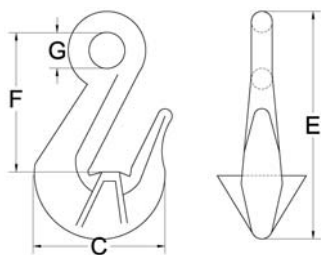
Grade 100 Chains, Slings and Components also available.



Hammerlock Type Connecting Links (alloy Gr 80)

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

Safety Factor 4:1



Eye Cradle Grab Hooks (alloy Gr 80)

Code	For Chain Size 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	3,500	.40	1.81	3.44	2.36	.63
EGH80-038	3/8	7,100	1.06	2.63	4.67	3.11	.78
EGH80-012	1/2	12,000	2.26	3.34	5.86	3.94	1.03
EGH80-058	5/8	18,100	4.36	4.08	7.13	4.78	1.25
EGH80-034	3/4	28,300	8.82	5.23	8.99	6.25	1.44
EGH80-078	7/8	34,200	10.40	5.69	9.63	6.50	1.75
EGH80-001	1	47,700	20.90	7.00	12.44	8.09	1.88
EGH80-114	1 1/4	72,300	40.00	8.50	15.56	10.50	2.25

Safety Factor 4:1



WARNING

Acidic chemicals and atmospheres

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

Extreme temperature conditions

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

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

Use

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

Temperature of chain (°F)	Working load limit while at temperature 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.

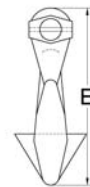
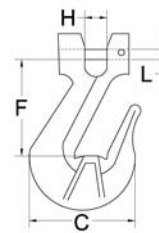
² When chain is used at room temperature after having been subjected to temperatures shown in first column.

We offer a sling inspection and a sling cleaning service.

Clevis Cradle Grab Hooks (alloy Gr. 80)

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

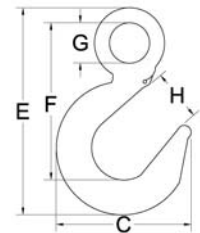
Safety Factor 4:1



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

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

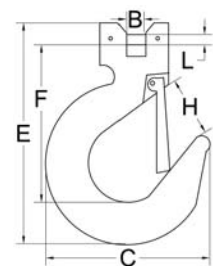
Safety Factor 4:1

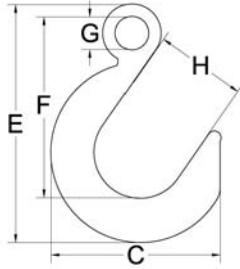


Clevis Sling Hooks with latch (Alloy Gr. 80)

Code	For Chain Size in.	Working Load Limit lbs.	Weight / ea. lbs.	Dimensions in.					
				B	C	E	F	H	L
CSH80L-932	9/32	3,500	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

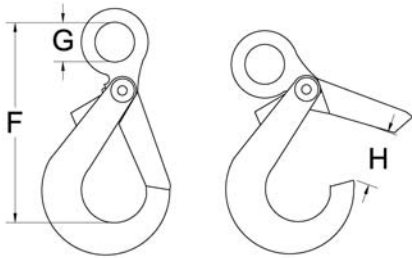




Eye Foundry Hooks (alloy Gr. 80)

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

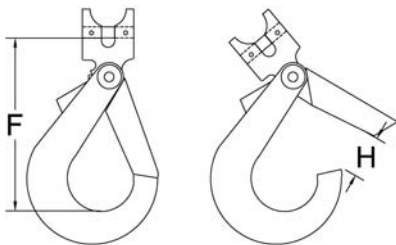
Safety Factor 4:1



Eye Self Locking Hooks (alloy Gr. 80)

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

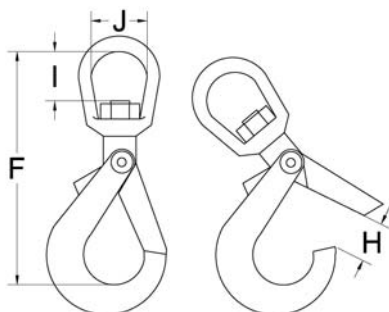
Safety Factor 4:1



Clevis Self Locking Hooks (Gr. 80)

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

Safety Factor 4:1



Swivel Self Locking Hooks (Gr. 80)

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

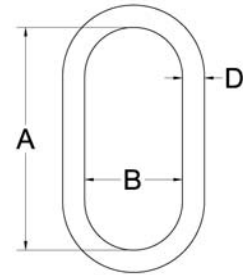
Safety Factor 4:1



Master Oblong Links (alloy steel)

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

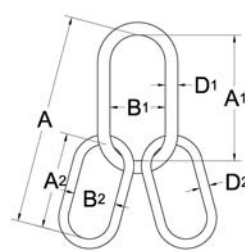
Safety Factor 6:1



Welded Master Link Assemblies

Code	Working Load Limit lbs. (at 60°)	Weight / ea. lbs.	A ₁	A ₂	B ₁	B ₂	D ₁	D ₂
SUB-012	5,460	1.8	4.838	4.130	2.688	2.294	0.512	0.437
SUB-034	9,100	5.0	6.611	5.292	3.719	2.977	0.750	0.625
SUB-001	18,400	9.9	7.526	6.611	4.301	3.719	1.000	0.750
SUB-114	31,200	19.9	9.261	7.526	5.292	4.301	1.250	1.000
SUB-112	47,000	26.5	11.025	7.526	6.300	4.301	1.500	1.000
SUB-134	73,500	44.0	12.863	9.261	7.350	5.292	1.750	1.250
SUB-002	88,900	70.8	14.700	11.025	8.400	6.300	2.000	1.500
SUB-214	123,900	104.8	16.538	12.863	9.450	7.350	2.250	1.750
SUB-234	187,800	176.5	20.213	14.700	11.550	8.400	2.750	2.000

Safety Factor 4:1

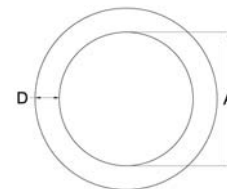


ACCESSORIES FOR CABLE SLING

Weldless Master Rings (carbon steel)

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

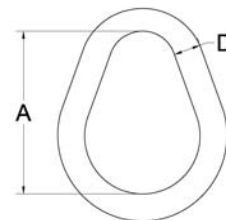
Safety Factor 6:1 – Federal Specification : RR-C-271D



Pear Shape Weldless Links (galvanized carbon steel)

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

Safety Factor 6:1



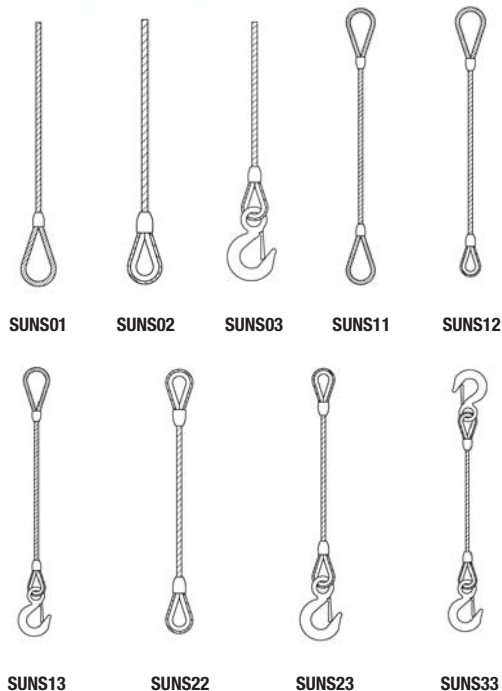


Wire Rope Slings

Single, 6 X 26 Steel Core.

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

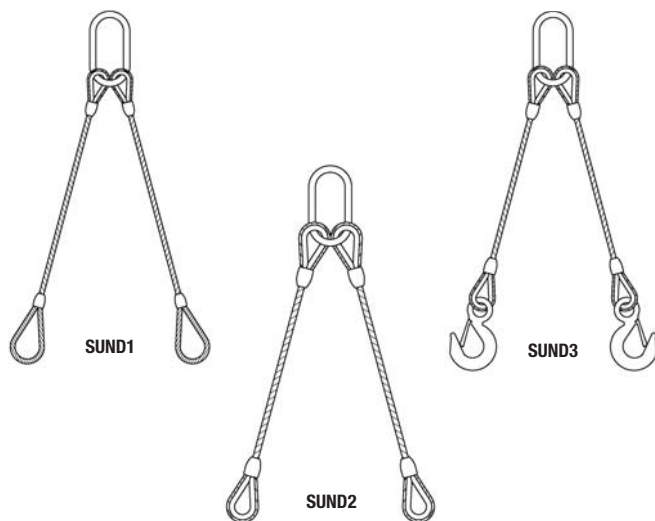
Safety Factor 5:1



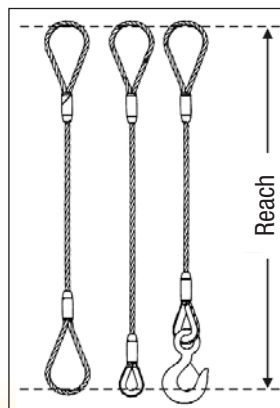
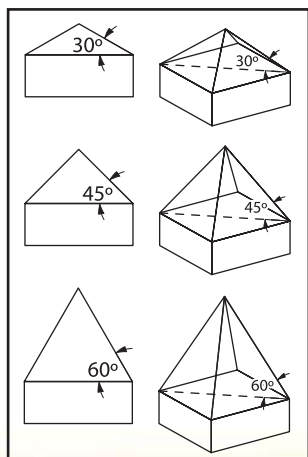
Double, 6 X 26 Steel Core

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

Safety Factor 5:1



* See dimensions on page 63



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

Slings made in conformance with
ASME B30.9 1996 standard

Wire Rope Slings

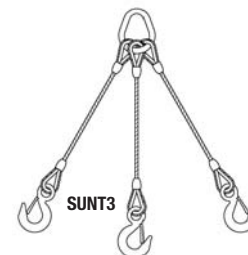
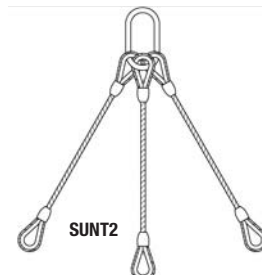
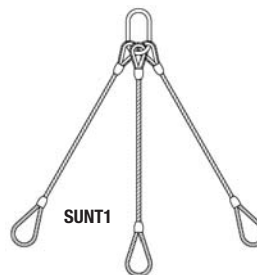


Triple, 6 X 26 Steel Core

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

Safety Factor 5:1

* See dimensions on page 63

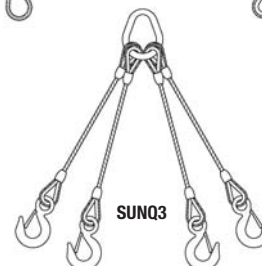
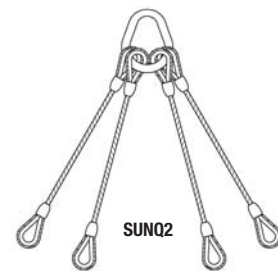
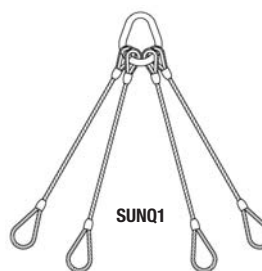


Quadruple, 6 X 26 Steel Core

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

Safety Factor 5:1

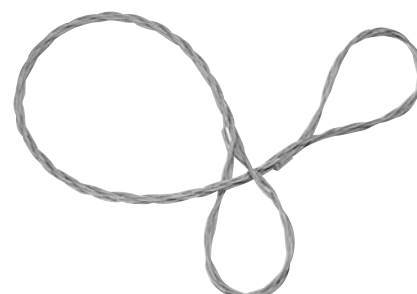
* See dimensions on page 63



Wire Rope Slings, extra-flexibles "Solflex"

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

Safety Factor 5:1





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

This is SECUTEX™ ...

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

High structure retention

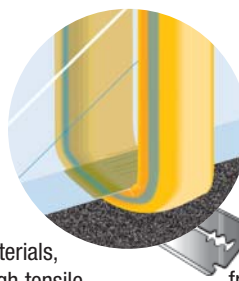
Compared to other chemical materials, **Secutex™** has an extremely high tensile strength. The **Secutex™** material can be stretched to 500% of its original length without breaking.

High flexibility

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

Extremely hard wearing

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



Extreme cut-resistance

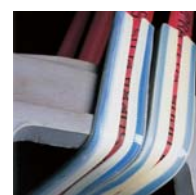
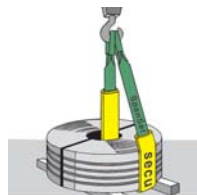
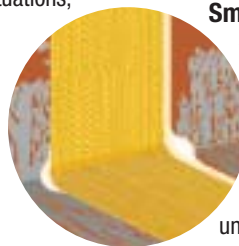
Secutex™ coated protective sleeves and lifting slings are very flexible, to form around the sharp edges of the load. The extreme structural resistance of **Secutex™** material prevents the lifting sling from being cut.

Wear and abrasion resistance

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

Smooth goods handling

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



Just lift and tilt

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

Now the easiest solution :

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

Multiple ways to protect the tool and the load while lifting

Secutex™ Fork Shoes

1. Anti-slip coating

The **Secutex™** coating is made from polyurethane. The high friction of the **Secutex™** coating ensures that load rests securely on the forks, thus significantly reducing the danger of the load slipping off the forks.

2. Noise reduction

When using **Secutex™** fork shoes, the contact area between the load and the forks contains noise reducing, elastic **Secutex™** material. Consequently less noise is generated.



3. Wear resistance

The **Secutex™** material is extremely robust and hard-wearing. The product's long life results in considerable cost savings.

4. Easy installation

No need for complex installation :

Secutex™ fork shoes are easily secured...

by simply sliding the shoes onto the forks, or, in case of fork extensions, by fastening with a split-pin bolt.





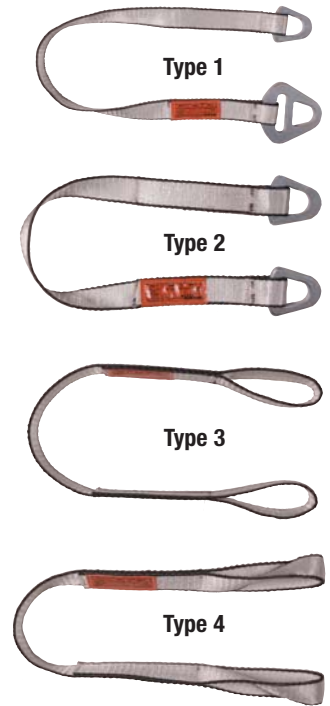
Synthetic Web Sling type # 1 - 2 - 3 - 4

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

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

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

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



Synthetic Web Sling type # 3 - 4

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

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

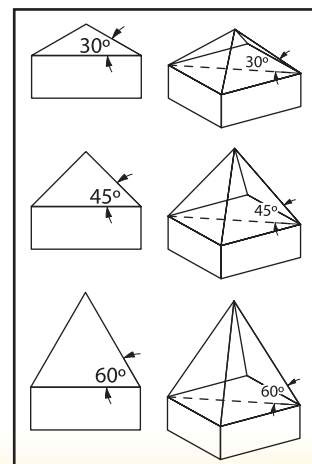
Material available : Polyester, Nylon

Class 7 : 9,800 lbs/in. = Fabric Tensile

Slings made in conformance with ASME B30.9 - 1996 Standard

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

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





Synthetic Web Sling type # 5



Type 5

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

Safety Factor 5:1

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

Safety Factor 5:1

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

Safety Factor 5:1

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

Safety Factor 5:1

Synthetic Web Sling type CARGO



SINGLE PLY			
Width in.	Working Load Limit lbs.		
	Vertical	Choker	Vertical Basket
2	6,200	4,960	12,400
4	11,000	8,800	22,000
6	16,500	13,200	33,000

Safety Factor 5:1

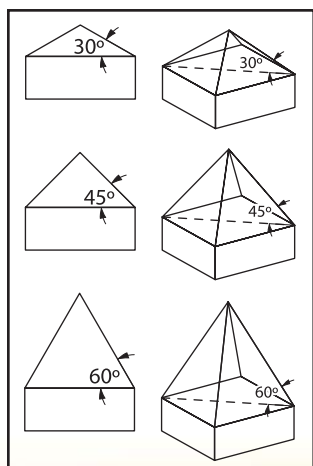
DOUBLE PLY			
Width in.	Working Load Limit lbs.		
	Vertical	Choker	Vertical Basket
2	12,400	9,920	24,800
4	22,000	17,600	44,000
6	33,000	26,400	66,000

Safety Factor 5:1

Material available : Polyester, Nylon

Class 7 : 9,800 lbs/in. = Fabric Tensile

Slings made in conformance with ASME B30.9 - 1996 Standard



PRODUCT CODE

Ex: 1 9 01 P 3 B 003 - 06

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

Environmental considerations



WARNING

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

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

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

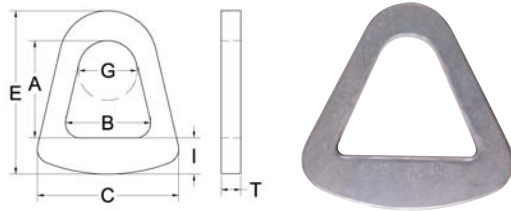
Chemicals	OK
	NOT OK

	Nylon	Polyester
Acids	NOT OK	OK *
Alcohols	OK	OK
Aldehydes	OK	NOT OK
Strong Alkalis	OK	OK **
Bleaching Agents	NOT OK	OK
Dry Cleaning Solvents	OK	OK
Ethers	OK	NOT OK
Halogenated Hydro-Carbons	OK	OK
Hydro-Carbons	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.

Steel Triangles, zinc plated*

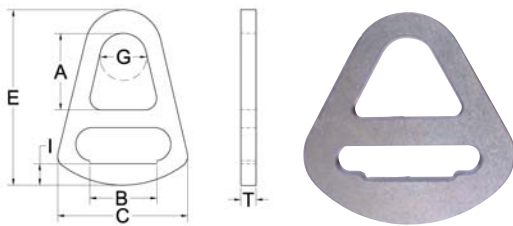


Code	Dimensions in.							Weight Approx. lbs.	Working Load Limit lbs.
	A	B	C	E	G	I	T		
TAC2	2 5/16	2 1/8	3 3/4	3 7/8	1 3/4	1	1/2	1	6,600
TAC3	3 5/16	3 1/16	5	5 3/16	2	1 1/4	1/2	1.6	8,900
TAC4	3 7/8	4 5/16	6 5/8	6 7/16	2	1 5/8	1/2	2.7	11,600
TAC5	4 15/16	5 3/16	7 15/16	7 7/8	2 1/2	2	1/2	3.5	14,000
TAC6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

Safety Factor 5:1

* Better corrosion resistance

Steel Chokers, zinc plated*



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

Safety Factor 5:1

* Better corrosion resistance



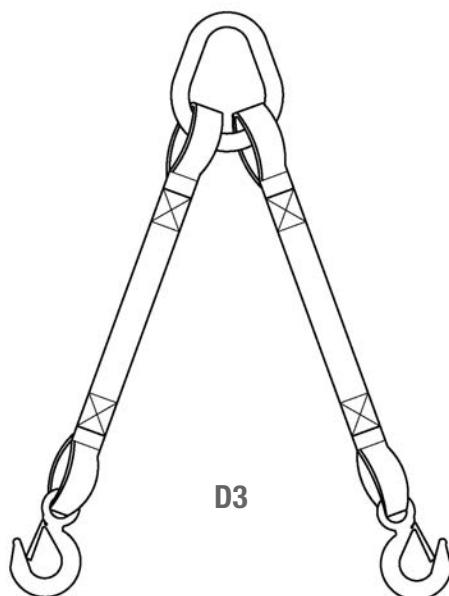
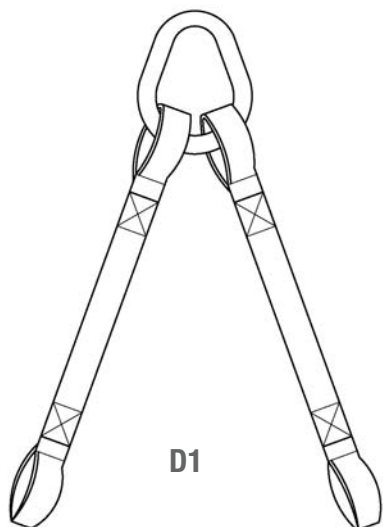
Endless roundslings

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

Safety Factor 5:1



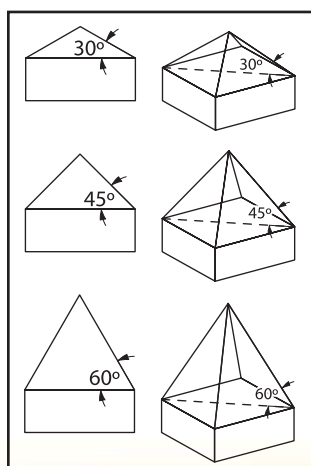
Synthetic Web Sling, double



Number of plies	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	10,730	8,760	6,200
2	3	15,240	12,440	8,800
2	4	19,050	15,550	11,000
3	1	7,440	6,080	4,300
3	2	14,370	11,730	8,300
3	3	21,990	17,950	12,700
3	4	28,920	23,610	16,700
4	1	9,520	7,770	5,500
4	2	19,050	15,550	11,000
4	3	28,490	23,260	16,450
4	4	35,330	28,840	20,400

Safety Factor 5:1

Note : Never exceed work load limit.



PRODUCT CODE

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

NUMBER OF LEGS
D = 2 T = 3 Q = 4
Double legs

ENDS
1 = STD LOOP
3 = EYE HOOK

NUMBER OF PLY

FABRIC TENSILE
(9800 LBS/PO)

WIDTH

MATERIAL
P = POLY N = NYLON

TYPE

COLOR
B = WHITE J = YELLOW

LENGTH
FEET
INCHES

with eye hooks, 1 ply, 9800 lbs/po, 1", Poly, Type 3, White, 3' 6"

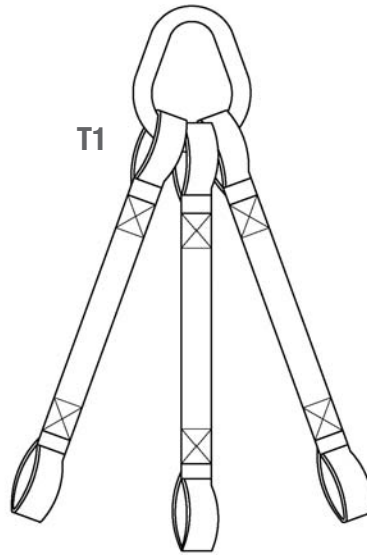


Synthetic Web Sling, triple

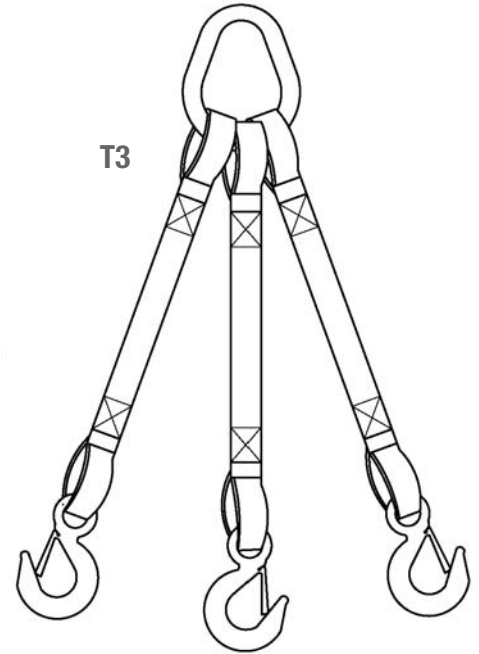
Number of plies	Material Width in.	Working Load Limit lbs.		
		60 °	45 °	30 °
1	1	4,150	3,390	2,400
1	2	8,050	6,570	4,650
1	3	12,200	9,960	7,050
1	4	16,100	13,100	9,300
2	1	8,050	6,570	4,650
2	2	16,100	13,100	9,300
2	3	22,800	18,600	13,200
2	4	28,500	23,300	16,500
3	1	11,100	9,120	6,450
3	2	21,500	17,600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

Safety Factor 5:1

Note : Never exceed work load limit.



T1



T3

Synthetic Web Sling, quadruple

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

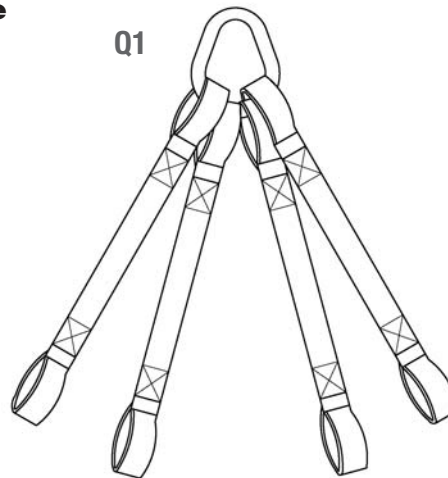
Safety Factor 5:1

Note : Never exceed work load limit.

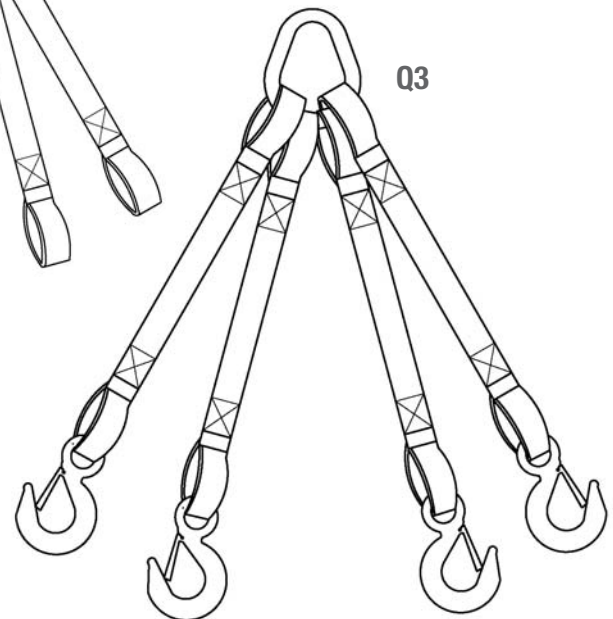
Material available : Polyester, Nylon

Class 7 : 9,800 lbs/in. = Fabric Tensile

Slings made in conformance with ASME B30.9 - 1996 Standard



Q1



Q3



Chain

Merchandising at it's best !

Displays come with removable third tray that can be used to promote reels of chain & cable (A) and pre-cut cables (B).

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

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

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

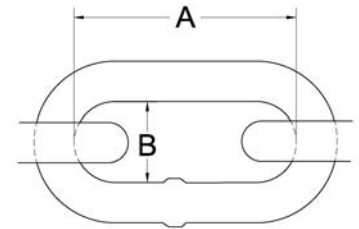




Grade 30 Proof Coil Chain - low carbon steel

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	1100	52
5/16	1.24	.50	1900	85
3/8	1.35	.57	2650	124
1/2	1.70	.75	4500	234



Safety Factor 3:1

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
Seau / Pail		
52000	1/8	250
52001	3/16	150
52002	1/4	100
52003	5/16	75
52004	3/8	45
52005	1/2	25

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
Pail		
52009	1/8	250
52010	3/16	150
52011	1/4	100
52012	5/16	75
52013	3/8	45
52014	1/2	25
Reel		
51000	3/16	100
51001	1/4	65
51002	5/16	60
51003	3/8	35
51009	1/8	150



Self Colored



Zinc Plated



Hot Dipped Galvanized

For grade 70 see page 89
For grade 80 see page 60

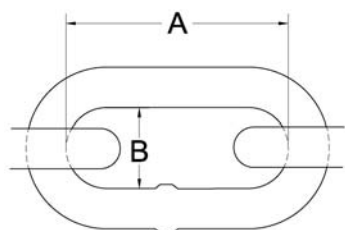


Hot Dipped Galvanized		
Drum		
Code	Diameter in.	Pack ft.
53020	1/8	1250
53021	3/16	800
53022	1/4	450
53023	5/16	275
53024	3/8	200
53025	1/2	100
Pail		
52020	1/8	250
52021	3/16	150
52022	1/4	100
52023	5/16	75
52024	3/8	45
52025	1/2	25



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	2600	71
5/16	1.12	.48	3900	102
3/8	1.35	.57	5400	140
1/2	1.70	.75	9200	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

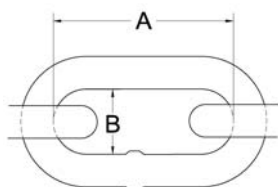


Hot Dipped Galvanized

Drum

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

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	0.14	0.48	5
CHS-018	4	1/8	400	0.27	0.91	20
CHS-316	5.5	3/16	800	0.40	0.96	40
CHS-014	7	1/4	1,300	0.43	1.18	66
CHS-516	8	5/16	1,700	0.50	1.26	86
CHS-038	10	3/8	2,650	0.60	1.31	142
CHS-012	13	1/2	4500	0.72	1.79	242

Safety Factor 4:1



Agricultural Safety Chain for Towed Machines (Grade 70)

Code	Chain Size in.	Length ft.	Rated lbs.	Weight / ea. lbs.
ASC-01405	1/4	5	10,000	5.5
ASC-51605	5/16	5	15,000	8.5
ASC-03805	3/8	5	20,000	11.5
ASC-01205	1/2	5	40,000	18.5
ASC-01406	1/4	6	10,000	5.5
ASC-51606	5/16	6	15,000	8.5
ASC-03806	3/8	6	20,000	11.5
ASC-01206	1/2	6	40,000	19.5

Custom sizes available on request.



Coil Chain - low carbon steel

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



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



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

Endweld Utility Chain - steel

A standard chain for all purpose usage except lifting.



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



Machine Chain - low carbon steel

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



Straight Link

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



Twist Link

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

Passing Link Chain - low steel carbon

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



Zinc

Code	Trade Size #	Dimensions in.			Working Load Limit lbs.	Pack ft.	Weight / 100 ft. lbs	Std Pack
		Dia.	Inside Length	Inside Width				
51035	2/0	.190	.88	.47	450	120	32	Reel
51036	2/0	.190	.88	.47	450	250	32	Pail



Single Jack Chain - steel

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



Code	Trade Size #	Dimensions in.		Working Load Limit lbs.	Pack ft.	Weight / 100 ft. lbs.	Std Pack
		Dia.	Inside Length				
51038	#18 (Zinc)	.047	.39	5	200	1.7	Reel
51040	#10T (Zinc)	.125	1.86	43	150	12	Reel
51041	#12 (Zinc)	.105	.77	29	100	9	Reel
51044	#12 (Brass)	.105	.77	29	100	9	Reel
51042	#14 (Zinc)	.080	.66	16	200	5	Reel
51045	#14 (Brass)	.080	.66	16	200	5	Reel
51043	#16 (Zinc)	.062	.52	11	250	2.75	Reel
51046	#16 (Brass)	.062	.52	11	250	2.75	Reel
51047	#14 (Black)	.080	.66	16	200	5	Reel
51140	#14 (Polycoat black)	.080	.66	16	190	5	Reel
51141	#10 (Brass glo)	.135	.93	43	100	14	Reel
52049	#10T (Zinc)	.125	1.86	43	200	12	Pail
52050	#10T (Zinc)	.125	1.86	43	250	12	Pail



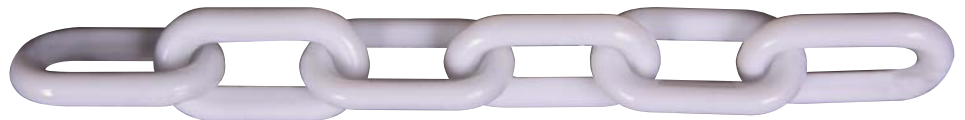
Double Jack Chain - steel

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



Brass							
Code	Trade Size #	Dimensions in.		Working Load Limit lbs.	Pack ft.	Weight / 100 ft. lbs.	Std Pack.
		Dia.	Inside Length				
51075	#16 (Pl. Bronze / Brass Pl.)	.22	0.058	11	200	6	Reel

Plastic Chain



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



Double Loop Chain - steel

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



Zinc								
Code	Trade Size #	Dimensions in.			Working Load Limit lbs.	Pack ft.	Weight / 100 ft. lbs.	Std Pack.
		Dia.	Inside Length	Inside Width				
51145	# 1 (Zinc)	.105	2.0	.281	155	125	8	Reel
51146	# 1/0 (Polycoat white)	.120	2.21	.312	200	100	13	Reel
51050	# 2/0 (Zinc)	.135	2.21	.340	255	75	17	Reel
51051	# 1/0 (Zinc)	.120	2.21	.312	200	200	13	Reel
51052	# 1 (Zinc)	.105	2.0	.281	155	250	8	Reel
51053	# 3 (Zinc)	.080	1.10	.187	90	200	6	Reel
51054	# 4 (Zinc)	.072	1.02	.171	70	250	5	Reel
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
51059	# 3 (Zinc)	.080	1.10	.187	90	700	6	Pail
51062	# 3/0 (Zinc)	.148	2.17	.415	305	150	20	Pail
51064	# 1 (Zinc)	.105	2.0	.281	155	450	8	Pail
51155	# 2/0 Inco (Polycoat yellow)	.135	2.21	.340	255	200	17	Pail
52059	# 2/0 Inco (Polycoat white)	.135	2.21	.340	255	200	17	Pail
52060	# 3 (Zinc)	.080	1.10	.187	90	750	6	Pail
52146	# 2/0 Inco (Zinc)	.135	2.21	.340	255	275	17	Pail



Vinyl covered								
Code	Trade Size #	Dimensions in.			Working Load Limit lbs.	Pack ft.	Weight / 100 ft. lbs.	Std Pack.
		Dia.	Inside Length	Inside Width				
51055	# 1/0 (Green)	.120	2.21	.312	200	100	17	Reel
51056	# 2 (Blue)	0.091	1.33	0.167	115	125	11	Reel

Lock Link Chain - steel

The strongest weldless chain. Provides a flat suspension surface.



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



Decorative Oval Chain (Swag)



Code	Trade Size #	Dimensions in.			Working Load Limit lbs.	Pack ft.	Weight / 100 ft. lbs.	Std Pack
		Dia.	Inside Length	Inside Width				
51005	#4 Zinc Plated	.12	.58	.21	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 Antique Brass	.109	1.25	.625	45	50	7	Reel
51085	#10 Antique Copper	.109	1.25	.625	45	50	7	Reel
51086	#100 Bronze	.087	.63	.24	13	197	3	Reel
51087	#4 Black	.12	.58	.21	70	90	11	Reel
51127	#100 Black	.087	.63	.24	13	197	3	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.	Std Pack
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.	Std Pack
51065	1/0	.023	35	200	2	Reel

Furnace Chain - steel

Light duty chain.



Zinc

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



Electrical Fixture Chain



51039



51049

Code	Trade Size #	Dimensions in.			Working Load Limit lbs.	Length	Weight / box lbs.
		Dia.	Inside Length	Inside Width			
51039	# 10T (zinc)	.125	1.86	—	100	500' total (10 x 50')	60
51049	# 4 (zinc)	.072	1.02	.171	70	800' total (8 x 100')	40

"S" Hook For Fixture Chain, #105



Code	Diameter in.	Inside Length in.	Pack	Master Pack	Weight / box lbs.
70929	1/8	.1.25	100 / bag	10 bags	14

BEN-MOR

A winning Team !

2003

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

Winner in the categories:

"Customer Orientation"

"New Investment Project"

"Grand Prize of the Jury"

1999

First Prize Any Age Entrepreneur presented by the Gouvernement of Québec

1998

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

1997

Winner of the Best Young Enterprise Award

presented by St-Hyacinthe Chamber of Commerce

1996

First Prize in the Bourse Desjardin's Young Entrepreneur Award

1995

Third Prize in the Bourse Desjardin's Young Entrepreneur Award

1994

Received the Federal Bank of Development's Young Entrepreneur Award

(Province of Québec)

1993

Received the Federal Bank of Development's Young Entrepreneur Award

(first year in business)



Bead Chain – steel

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



Bead Chain Connectors – steel

Code	Trade Size # Finish	Qty / Pack	Std Pack
55000	#6 Brass Bright	100 pcs / bag	Bag
55001	#10 Brass Bright	100 pcs / bag	Bag
55002	#6 Nickel	100 pcs / bag	Bag
55003	#10 Nickel	100 pcs / bag	Bag
55030	#6 Brass	8 pcs / card	Card
55031	# 10 Nickel	8 pcs / card	Card
55004	# 36 Chrome plated	6 pcs / card	Card



Hobby / Craft Chain – steel

Code	Trade Size #	Dimensions in.			Working Load Limit lbs.	Pack ft.	Weight per 100 ft. lbs.	Std Pack
		Dia.	Inside Width	Inside Length				
51110	#3 Clock Brass Plated	.043	.300	.92	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 Black	.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



Oval



Ball



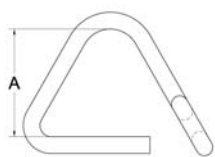
Clock



Sash

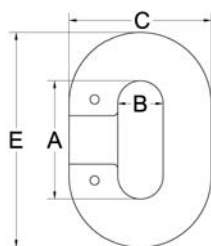


Twist



Cold Shuts (zinc plated steel)

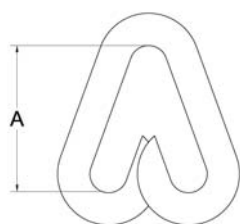
Code	Chain Size in.	Weight / ea. lbs.	Dimensions in.
			A
MF-316	3/16	0.03	1 1/32
MF-014	1/4	0.06	3/8
MF-516	5/16	0.10	7/16
MF-038	3/8	0.18	5/8
MF-012	1/2	0.38	3/4



Connecting 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-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-012	1/2	0.53	2 1/2

Federal Specification : RR-C-271D



44



65



88



25

Chain Cutters

Code	Product	For diameter in. Maximum	Weight lbs.	Std Pack
55020	#25	1/4 G30	5	1
55021	#44	3/8 G40	35	1
55022	#65	3/8 G40	17	1
55023	#88	1/2 G40 - 3/8 G70	46	1
55024	#88 kit	1/2 G40 - 3/8 G70	2	1
55025	#88 Carbide teeth	1/2 G40 - 3/8 G70	-	2



"Felco" Wire Rope Cutters, Switzerland

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



FC-7



FC-16



FC-12



FC-9

Wire Rope Cutters, Japan

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



RC-800



RC-8



RC-450

Wire Rope Cutters, USA

Code	For Cable Diameter in.	Length in.	Weight ea. oz.
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, USA

Length : 20"— Weight : 4.2 lbs

Code	For Oval Sleeves	For Stop Sleeves	For Oval Sleeves Stainless Steel
HS-0A	3/64	3/64	1/16
HS-0B	1/16	1/16	3/32
HS-0C	3/32	3/32 – 1/8	1/8
HS-0D	1/8	3/32 – 3/16 – 7/32	—
HS-0E	5/32	—	—
HS-0F	3/16	—	—



Length : 28"— Weight : 5 lbs

Code	For Oval Sleeves	For Stop Sleeves
HS-1A	7/32	—
HS-1B	1/4	1/4 – 9/32 – 5/16
HS-1C	9/32	—
HS-1D	5/16	—
HS-1E	3/8	—



Length : 8"— Weight : 8oz

Code	For Oval Sleeves	For Stop Sleeves
S 132	1/32	1/32
S 1532	3/64	3/64
S 232	1/16	1/16

Functional Swagers, USA - Japan

Length : 14"— Weight : 2 lbs.



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



Pocket Hand Swagers, USA

Length : 9"— Weight : 12 oz.

Code	For Oval Sleeves	For Stop Sleeves
HS-3	1/32 – 3/64 – 1/16	1/32 – 3/64 – 1/16



S2632H



HS5

Multicompression Hand Swagers with Cable Cutter, USA - Japan

Length : 28"— Weight : 6.5 lbs.

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



S2632B

Bench Swagers, USA - Japan

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

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



BS-1



50 Ton Hydraulic Swager



Specifications

CAPACITY

Aluminum or copper ovals

One pressing	5/32" (3/16" with special dies)
Two pressings	5/16"
Three pressings	3/8"

Aluminum or copper stops

One pressing	5/16"
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Stainless straight shank fittings

MS20667, 20668, 21259, 21260 and similar marine and industrial fittings	3/16" (5/16" after-swage diameter)
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Mild steel straight shank fittings

Eyes, studs, forks, etc.	1/4" (7/16" after-swage diameter)
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Stops

Stainless steel or mild steel	1/4" (7/16" after-swage diameter)
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Ball and ball/shank fittings

MS20663	5/32"
MS20664	3/16"
Plain ball	3/16"

Fold black sleeves

Carbon steel and stainless steel	1/4"
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Stake (stamped) eyes

Carbon steel and stainless steel	1/8"
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Maximum cable diameter

Designed and built by GBG the 50 Ton is lightweight and fast. The 50 Ton can open opportunities in small assemblies thru 3/16" diameter where larger equipment is not effective. This versatile swager and dies are offered at attractive prices.

HYDRAULIC

Low pressure system (maximum 1050 psi). Pump: 1.44 GPM, reservoir 1 gallon. Complete with hoses.

SAFETY GUARDS

Steel expanded-metal. Shields entire machine except swaging area. IT IS THE BUYER'S RESPONSIBILITY TO INSTALL POINT OF OPERATION SAFETY DEVICES APPROPRIATE TO THE TYPE OF SWAGING BEING PERFORMED.

WEIGHT

Swager	85 lbs.
Complete Assembly (swager, table, equipment)	242 lbs.

DIMENSIONS

Overall height	44"
Table dimensions:	
height	30"
length	27"
width	24"

CYCLE TIME

Fully open to closed (no load):	1.8 seconds
Closed to fully open:	1.7 seconds

ELECTRICAL

Pump motor: 1 hp., 110 V single phase, 1750 RPM
A/C hookup standard. 220 V hookup available
(switching remains at 110 V)

Foot switch: Dual action (close/open). Operates only when pressure is applied; swager stops instantly when foot pressure is removed. With full guard.

OPTION: AUTO RETURN

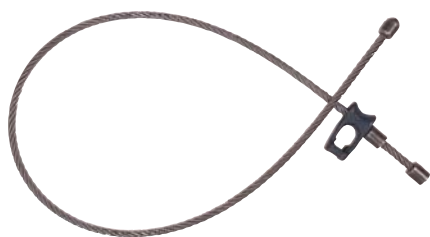
Allows press to automatically open specified amount when down foot pedal is released.

OPTION: HIGH VOLUME PUMP

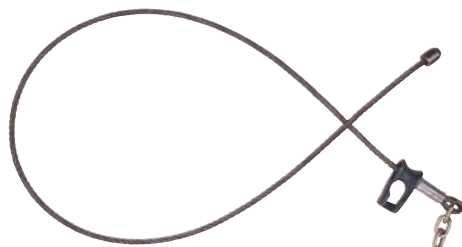
Capable of delivering 1.85 GPM displacement, reducing cycle time by 28%.



Forestry



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-716004	7/16 x 7'	17,200
SFE3-716008	SFEC-716008	7/16 x 8'	17,200
SFE3-012006	SFEC-012006	1/2 x 6'	23,600
SFE3-012612	SFEC-012612	1/2 x 6' 6"	23,600
SFE3-012007	SFEC-012007	1/2 x 7'	23,600
SFE3-012008	SFEC-012008	1/2 x 8'	23,600
SFE3-012009	SFEC-012009	1/2 x 9'	23,600
SFE3-012010	SFEC-012010	1/2 x 10'	23,600
SFE3-916010	SFEC-916010	9/16 x 10'	28,600
SFE3-916011	SFEC-916011	9/16 x 11'	28,600
SFE3-916012	SFEC-916012	9/16 x 12'	28,600
SFE3-916013	SFEC-916013	9/16 x 13'	28,600
SFE3-916014	SFEC-916014	9/16 x 14'	28,600
SFE3-916015	SFEC-916015	9/16 x 15'	28,600



Extensions (type 2 buttons)

Code	Diameter x length 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			
3Code	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	1 1/16 x 100	54,400	1.20
SFCPB-034	3/4 x 100	68,800	1.55

Any length available upon request.

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	1 1/16 x 100	67,400	1.20
SFCPB-034S	3/4 x 100	72,200	1.55



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	À oeil inversé – With reversed eye
SFGS-516	Goupille spirale – 5/16 x 2 – Spiral pin



SFMLR-E



SFGS-516



SFMLR-TH

Links and buttons

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

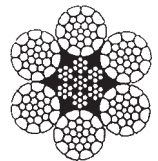
Choker Sliding Hooks (carbon steel)

Code	For cable diameter in.	Eye diameter in.	Throat opening in.	Weight / ea. approx. lbs.
A350-038	3/8	5/8	5/8	0.75
A350-012	1/2	3/4	25/32	1.25
A350-058	5/8	3/4 or 1	15/16	3.10
A350-034	3/4	1 or 1 7/16	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	1 1/16	65,000	122
034626BSS	3/4	77,000	185
078626BSS	7/8	104,000	209
001626BSS	1	133,000	244



6 x WS(26)IWRC

6 X 26 Swaged

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

8 X 36 Steel Core (Natural) EIPS

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



Transport

Tie-Down Accessories



Code	Description	Dimensions	Weight lbs.
DR2	Delta Rings	webbing : 2"	0.2
DR3	Delta Rings	webbing : 3"	0.8
TC9	Rubber Straps w/ "S" Hooks	length : 9"	0.2
TC21	Rubber Straps w/ "S" Hooks	length : 21"	0.3
BAR	Winch Bar	length : 30"	5.0
RAT1	Ratchet Buckles	webbing : 1"	1.0
RAT2L	Ratchet Buckles	webbing : 1 3/4"	2.5
RAT3L	Ratchet Buckles	webbing : 3"	7.0
MCC2	Corner Caps — Cable / Chain & Web	webbing : 1 3/4" - 2"	—
MCC4	Corner Caps — Webbing	webbing : 2" - 4"	—
PCC	Corner Caps — Plastic	webbing : 2" - 4"	0.2
TC7051614	Tow Chain (grade 70)	5/16" x 14'	15.0
TC7003816	Tow Chain (grade 70)	3/8" x 16'	24.0
RAIL6	Sliding Bars	length : 72"	35.0
TRS2	Side Winches	width : 2"	3.5
TRS5	Side Winches	width : 5"	9.0
TRS7	Side Winches	width : 7"	12.0
CF1	Narrow Wire Hook 1"	webbing : 1"	0.1
CF2	Narrow Wire Hook 2"	webbing : 2"	0.6
CF3	Narrow Wire Hook 3"	webbing : 3"	1.6
CP2	Flat Hook 2"	webbing : 2"	0.7
CP3	Flat Hook 3"	webbing : 3"	1.1
CP4	Flat Hook 4"	webbing : 4"	2.0
56001	Grade 30 chain logging ZP	1/4" x 14'	9.0
56002	Grade 30 chain logging SC	5/16" x 14'	13.0
56003	Grade 30 chain logging SC	3/8" x 14'	21.0
56004	Grade 70 Binder	5/16" x 14'	16.0
56005	Grade 70 Binder	3/8" x 20'	30.0

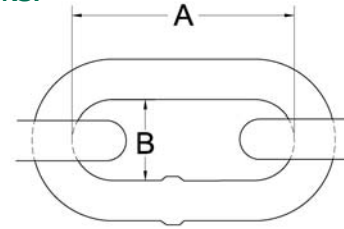




Grade 70 Transport Chain - yellow chromate carbon steel

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

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

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



Cable and Chain Tie Down (Tagged)

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

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



Polyester Tie-Down Straps										
		1" x 10'	1" x 15'	1" x 20'	1 3/4" x 15'	1 3/4" x 20'	1 3/4" x 25'	3" x 20'	3" x 25'	3" x 30'
A	Wire Hook	PCF110	PCF115	PCF120	PCF215	PCF220	PCF225	PCF320	PCF325	PCF330
B	Flat Hook	—	—	—	PCP215	PCP220	PCP225	PCP320	PCP325	PCP330
C	Chain Anchor	—	—	—	PTC215	PTC220	PTC225	PTC320	PTC325	PTCC330
D	Ratchet & Chain Anchor Strap	—	—	—	BTPTCC 215	BTPTCC 220	BTPTCC 225	BTPTCC 320	BTPTCC 325	BTPTCC 330
E	Ratchet & Wire Hook	BTPCF110	BTPCF115	BTPCF120	BTPCF215	BTPCF220	BTPCF225	BTPCF320	BTPCF325	BTPCF330
F	Ratchet & Flat Hook	—	—	—	BTPCP215	BTPCP220	BTPCP225	BTPCP320	BTPCP325	BTPCP330

Any length or accessories available.

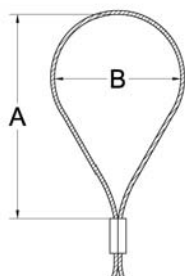


Transport

Load Binders

Code	Product	Chain diameter in.	Capacity lbs.	Weight lbs.	Std Pack	
55005	BX 270 Style	3/16	750	1.0	1	
55006	BX 271 Style	1/4	2,600	3.5	1	
55007	BX 320 Style	5/16 - 3/8	5,400	7.0	1	
55008	BX 400 Style	3/8 - 1/2	9,200	10.5	1	
55009	BX 600 Style	5/16 - 3/8	5,400	10.25	1	
55010	BX 800 Style	3/8 - 1/2	9,200	14.0	1	
55015	Ratchet Type	5/16 - 3/8	6,600	10.8	1	
55016	Ratchet Type	3/8 - 1/2	9,200	12.75	1	
55017	Ratchet Type	1/2 - 5/8	13,000	14.55	1	

Assemblies



Loop Wire Rope Concrete Anchors

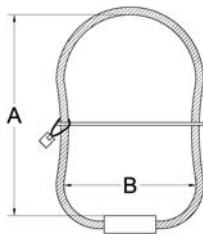
Code	Cable	Working Load Limit ton	Weight / ea. lbs.	Dimensions in.	
				A	B
LWRCA-058	6 x 19 Galv., 5/8"	6	3.72	22	11
LWRCA-038	7 x 19 Galv., 3/8"	2	1.04	18 1/4	9

Wire rope concrete anchor custom made available.

Oval Wire Rope Concrete Anchors (tagged)

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

Wire rope concrete anchor custom made available.



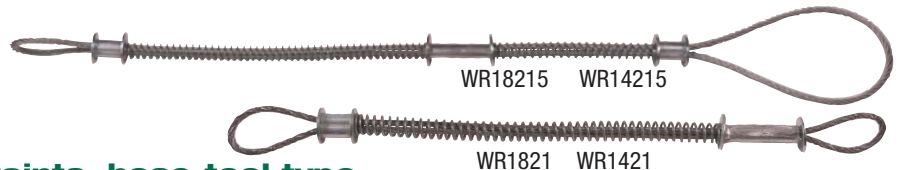


Whip Restraints, hose-hose type



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

Any length available upon request.



Whip Restraints, hose-tool type

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

Any length available upon request.



Whip Restraints, hose-tool type with snap hook

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

Any length available upon request.

Many other models available in stock

Tow Cables and Winch Cables

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



Winch Cable

Tow Cable



Conversion Table & Glossary

Conversion table

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

Fractions	Decimals	mm
33/64"	0.515625	13.0969
17/32"	0.53125	13.4938
35/64"	0.546875	13.8906
9/16"	0.5625	14.2875
37/64"	0.578125	14.6844
19/32"	0.59375	15.0812
39/64"	0.609375	15.4781
5/8"	0.625	15.875
41/64"	0.640625	16.2719
21/32"	0.65625	16.6688
43/64"	0.671875	17.0656
11/16"	0.6875	17.4625
45/64"	0.703125	17.8594
23/32"	0.71875	18.2562
47/64"	0.734375	18.6531
3/4"	0.75	19.05
49/64"	0.765625	19.4469
25/32"	0.78125	19.8438
51/64"	0.796875	20.2406
13/16"	0.8125	20.6375
53/64"	0.828125	20.0344
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



Glossary of Wire Rope Terms

ABRASION - Surface wear on the wires of a wire rope.

ACCELERATION STRESS - Additional stress imposed on a wire rope due to increasing the velocity of the load.

AGGREGATE BREAKING STRENGTH - The breaking strength derived by totaling the individual breaking strengths of the elements of the strand or rope. This strength does not give recognition to the reduction in strength resulting from the angularity of the elements in the rope nor other factors which may affect efficiency.

AIRCRAFT CABLES - Strands, cords and wire ropes made of special strength wire primarily for aircraft controls and miscellaneous uses of Aircraft Industry.

ALTERNATE LAY - Lay of a wire rope in which the strands are alternately regular and Lang Lay.

AREA, METALLIC - Sum of the cross-sectional areas of individual wires in a wire rope or strand.

ARMORED ROPE - Rope with individual strands spirally wrapped with flat steel wire.

BACK-STAY - Guy used to support a boom or mast; or that section of a main cable, as on a suspension bridge, cable way, etc., leading from the tower to the anchorage.

BENDING STRESS - Stress imposed on wires of a rope by bending.

BIRDCAGE - A colloquialism descriptive of the appearance of a wire rope forced into compression. The outer strands form a cage and at times, displace the core.

BREAKING STRENGTH (aggregate wire) - The ultimate load at which a tensile failure occurs in the sample of wire rope being tested. (Note: The term breaking strength is synonymous with actual strength.) Minimum Acceptance Strength is that strength which is 2-1/2% lower than the catalog or nominal strength. This tolerance is used to offset testing variables which exist when the test is made to determine the breaking strength of a specific sample of wire rope. Its use originated with the basic government wire rope specification. Nominal strength is the published (catalog) strength calculated by a standard procedure and accepted by the wire rope industry. The wire rope manufacturer designs wire rope to this strength, and the user should consider this to be the minimum strength when making design calculations.

BRIDLE SLING - A two-part wire rope sling attached to a single part line. The legs of the sling are spread to divide and equalize the load.

BRIGHT ROPE - Wire rope made of wires that are not coated with zinc, tin, or any other protective metal.

BRONZE ROPES - Wire rope made of bronze wires.

BUTTON CONVEYOR ROPE - Wire ropes to which buttons or discs are attached at regular intervals to move material in a trough.

CABLE - A term loosely applied to wire ropes, wire strands, and electrical conductors.

CABLE-LAID WIRE ROPE - A type of wire rope consisting of several wire ropes laid into a single wire rope.

CENTERS - Wire, strand or fiber in the center of a strand about which the wires are laid.

CHOKER - Short wire rope sling used to form a slip noose around the object to be moved or lifted.

CIRCUMFERENCE - Measured perimeter of a circle that circumscribes either the wires of a strand or the strands of a wire rope.

CLAMPS, STRAND - A fitting for forming a loop at the end of a length of strand, consisting of two grooved plates and bolts.

CLASSIFICATION - Group or family designation based on wire rope constructions with strengths and weights jointly listed under the broad designation.

CLEVIS - A "U" shaped fitting with pin.

CLIP - Fitting for clamping two parts of wire rope.

COIL - Circular bundle or package of wire rope that is not affixed to a reel.

COME-ALONG - Device for making temporary grip on a wire rope.

COMMON STRAND - Galvanized strand made of galvanized iron wire whose grade is common iron.

CONICAL DRUM - Grooved hoisting drum of tapering diameter.

CONSTRUCTION - Design of wire rope including number of strands, number of wires per strand and arrangement of wires in each strand.

CONTINUOUS BEND - Reeving of wire rope over sheaves and drums so that it bends in the same direction, as opposed to reverse bend.

CONVEYOR ROPE - Parallel endless wire ropes used to carry material.

CORE - Member of a wire rope about which the strands are laid. It may be fiber, a wire strand or an independent wire rope.

CORING LINE - Wire rope used to operate the coring tool for taking core samples during the drilling of a well.

CORROSION - Chemical decomposition of the wires of a rope by exposure to moisture, acids, alkalies or other destructive agents.

CORROSION - Resisting Steel - Chrome-nickel steel alloys designed for increased resistance to corrosion.

COVER WIRES - Outer layer of wires.

CORRUGATED - Term used to describe the grooves of a sheave or drum after these have been worn down to a point where they show an impression of a wire rope.

CREEP - The unique movement of a wire rope with respect to a drum surface or sheave surface resulting from the asymmetrical load between one side of the sheave (drum) and the other. It is not dissimilar from the action of a caterpillar moving over a flat surface. It should be distinguished from slip which is yet another type of movement between rope and the sheave or drum surface.

CRITICAL DIAMETER - Diameter of the smallest bend for a given wire rope which permits the wires and strands to adjust themselves by relative movement while remaining in their normal position.

CYLINDRICAL DRUM - Hoisting drum of uniform diameter.

DECELERATION STRESS - Additional stress imposed on a wire rope due to decreasing the velocity of the load.

DEFLECTION - a) The sag of a rope in a span. Usually measured at mid-span as the depth from the chord joining the tops of the two supports. b) Any deviation from a straight line.

DESIGN FACTOR - In a wire rope, it is the ratio of the listed breaking strength to the total working load.

DIAMETER - Distance measured across the center of a circle circumscribing the wires of a strand or the strands of a wire rope.

DOG-LEG - Permanent short bend or kink in a wire rope caused by improper use.

DRUM - A cylindrical flanged barrel of uniform or tapering diameter on which rope is wound for operation or storage. It may be smooth or grooved.

EFFICIENCY (wire rope) - Percentage of measured breaking strength of a wire rope to the aggregate strength of all individual wires tested separately.

ELASTIC LIMIT - Limit of stress above which a permanent deformation takes place within the material.

ENDLESS ROPE - Rope whose ends are spliced together.

EQUALIZING SLINGS - Multiple-leg slings composed of wire rope and fittings that are designed to help distribute the load equally.

EQUALIZING THIMBLES - Special type of load distributing fitting component part of some wire rope slings.

EXTRA FLEXIBLE WIRE ROPE - An ambiguous and archaic term sometimes



applied to describe wire ropes in the 8 x 19 class and a 6 x 37 class. The term is so indefinite as to be meaningless and is in disfavor today.

EXTRA HIGH STRENGTH STRAND - A grade of galvanized or bright strand.

EXTRA IMPROVED PLOWSTEEL ROPE - A specific wire rope grade.

EYE OR EYE SPLICE - A loop with or without a thimble formed in the end of a wire rope.

FACTOR OF SAFETY - A term originally used in the wire rope industry to state the ratio of nominal strength to be the total working load. The term is no longer used since it implies the permanent existence of this ratio when in actuality the rope strength begins to reduce the moment it is placed in service. See DESIGN FACTOR.

FATIGUE - In wire rope the term is usually applied to the process of progressive fracture from bending of the individual wires. These fractures may and usually do occur at bending stresses as well below the ultimate strength of the material: it is not an abnormality although it may be accelerated due to conditions in the rope such as rust or lack of lubrication.

FERRULE - A metallic button, usually cylindrical in shape, normally fastened to a wire rope by swaging.

FIBER CENTERS - Cords of rope made of vegetable fiber or synthetic fiber used in the core of a wire rope.

FIBER CORES - Cords or rope made of vegetable fiber or synthetic fiber used in the core of a wire rope.

FILLER WIRE - Small auxiliary wires in a strand for spacing and positioning other wires.

FITTING - Any accessory used as an attachment for wire rope.

FLAT ROPE - Wire rope made of parallel alternating right lay and left lay ropes sewn together by relatively soft wires.

FLEET ANGLE - Angle between position of a rope at the extreme end wrap on a drum, and a line drawn perpendicular to the axis of the drum through the center of the nearest fixed sheave.

FLEXIBLE WIRE ROPE - An archaic and imprecise term to differentiate one rope construction from another; such as 6 x 7 (least flexible) and 6 x 19 classification (somewhat more flexible).

GALVANIZE - To coat with zinc to protect against corrosion.

GALVANIZED ROPE - Rope made of galvanized wire.

GALVANIZED STRAND - Strand made of galvanized wire.

GALVANIZED WIRE - Wire coated with zinc.

GRADES, ROPE - Classification of wire rope by its breaking strength. In order of increasing breaking strengths they are Iron, Traction, Mild Plow Steel, Plow Steel, Improved Plow Steel, Extra Improved Plow Steel.

GRADES, STRAND - Classification of strand by its breaking strength. In order of increasing breaking strengths they are Common, Siemens Martin, High Strength and Extra-high Strength. A Utilities grade strand is also made to meet special requirements.

GROOVED DRUM - Drum with grooved surface to accommodate and guide the rope.

GROOVES - Depressions in the periphery of a sheave or drum for positioning and supporting a rope.

GROMMET - An endless 6-strand wire rope with a strand core made of one continuous length of strand.

GUARD RAIL CABLE - A galvanized wire rope or strand erected along a highway.

GUY LINE - Strand or rope, usually galvanized, for holding a structure in position.

HIGH STRENGTH STRAND - Grade of galvanized or bright strand.

IDLER - Sheave or roller used to guide or support a rope.

INDEPENDENT WIRE ROPE CORE - Wire rope used as the core of a larger rope.

INTERNALLY LUBRICATED - Wire rope or strand having all wires coated with lubricant.

IRON ROPE - See "Grades, Rope".

IRONING - Sometimes called Milking, it is the progressive movement of strands along the axis of the rope that results from its movement through a restricted passage such as a tight sheave.

IWRC - "Independent Wire Rope Core".

KINK - Sharp bend in a wire rope that permanently distorts the wires and strands.

LAGGING - External wood covering on a reel of rope or strand.

LANG LAY ROPE - Wire rope in which the wires in the strands in the rope are laid in the same direction.

LAY - a) The manner in which the wires in a strand or the strands in a rope are helically laid, or b) the length, parallel to the longitudinal axis in which a wire makes one complete turn about the axis of the strand or a strand about the axis of a rope. In this connection lay is also referred to as lay length or pitch.

LAY TYPES - 1) Right Lay: Product in which the elements are laid in a right hand helix. 2) Left Lay: Product in which the elements are laid in a left hand helix. 3) Cross Lay: Product in which one or more laying or closing operations are performed in opposite directions. A multiple operation is named according to the direction of the outside layer. 4) Regular Lay: Wire rope in which the wires in the strands and the strands in the wire rope are laid in opposite directions. The crowns of the wires appear to line up with the axis of the rope. 5) Lang Lay: Wire rope in which the wires in the strands and strands in the rope are laid in the same direction. The crowns of the wires make an angle with the axis of the rope. 6) Alternate Lay: Lay of a wire rope in which the strands are alternately regular and lang lay. 7) Alberts Lay: An old, now rarely used term for lang lay. 8) Reverse Lay: Another term for alternate lay. 9) Spring Lay: This is not actually a unique lay and more properly refers to a wire rope construction. See MOORING LINES and SPRING LAY. 10) Herringbone: An unusual construction consisting of 4 Lang Lay strands each pair of which is separated by a Regular Lay strand. See LAY.

MARLINE SPIKE - Tapered steel pin used in splicing wire rope.

MARTENSITE - A micro-constituent of steel that becomes extremely brittle when the steel is heated above the critical temperature and rapidly quenched. This can occur in wire ropes as a result of frictional heating and the mass cooling effect of the cold metal beneath. Martensite cracks very easily when bent and such cracks propagate through the entire structure below.

MESSANGER STRAND - Galvanized strand or bronze strand used to support telephone and electrical cables.

MILD PLOW - See "Grades, Rope".

MILKING - Sometimes called "Ironing", it is the progressive movement of strands along the axis of the rope that results from its movement through a restricted passage such as a tight sheave.

MODULUS OF ELASTICITY - Mathematical quantity giving the ratio, within the elastic limit, between a definite range of unit stress on a wire rope, to the corresponding elongation.

MOORING LINES - Galvanized wire rope, usually 6 x 12, 6 x 24 or spring lay construction, for holding ships to dock.

NON-ROTATING WIRE ROPE - 18 x 7 wire rope consisting of a 6 x 7 left lay Lang lay inner rope covered by twelve 7-wire stands right lay regular lay - also 19 x 7's.

PEENING - Permanent distortion resulting from cold plastic flow of the outer wires. Usually caused by pounding against a sheave or machine member or by heavy operating pressure between rope and sheave rope and drum, or rope and adja-



cent wrap of rope.

PLOW STEEL - See "Grades, Rope".

PREECE TEST - A recognized standard of testing the galvanized coating on wire.

PREFORMED WIRE ROPE - Wire rope in which the strands are permanently shaped, before fabrication into the rope, to the helical form they assume in the wire rope.

PREFORMED STRAND - Strand in which the wires are permanently shaped, before fabrication in the strands, to the helical form they assume in the strand.

PRESSED FITTING - Fittings which are attached to wire rope by cold forming the fitting onto the rope by means of a rotary swager or a press. *See SWAGED FITTINGS.*

PRESTRETCHING - Stressing a wire rope or strand before use under such a tension and for such a time that the constructional stretch is largely removed.

PROOFLOADING - Subjecting a wire rope or strand to tension prior to its intended application for an extent and over a period of time sufficient to remove most of the constructional stretch.

PROPORTIONAL LIMIT - As used in the rope industry this term is virtually the same as elastic limit. It is the end of the load versus elongation relationship at which an increase in load no longer produces a proportional increase in elongation and from which point recovery to the rope's original length is unlikely.

RATED CAPACITY - The load which a wire rope or wire rope sling, when new, may handle under given operating conditions and at an assumed design factor.

REEL - The flanged spool on which wire rope or strand is wound for storage or shipment.

REGULAR LAY ROPE - Wire rope in which the wires in the strands and the strands in the rope are laid in opposite directions.

RESERVE STRENGTH - The strength of a rope exclusive of the outer wires, refers to all ropes that exhibit some type of rotational-resistant quality or characteristic.

RESERVE BEND - Reeving of a wire rope over sheaves and drums so that it bends in opposite directions.

REVERSE LAY - Synonymous with "Alternate Lay".

RIGHT LAY - (a) Strand - Strand in which the cover wires are laid in a helix having a right-hand pitch, similar to a right-hand screw (b) Rope - rope in which the strands are laid in a helix having a right-hand pitch, similar to a right-hand screw.

ROLLERS - Relatively small diameter cylinders which are free to turn while supporting ropes.

ROTATIONAL-RESISTANT ROPE - A wire rope consisting of an inner layer of strand laid in one direction covered by a layer of strand laid in the opposite direction. This has the effect of counteracting torque by reducing the tendency of the finished rope to rotate.

SAFE-WORKING LOAD - Potentially misleading, this term is in disfavor. Essentially, it means the portion of the nominal rope strength that can be applied to move or sustain a load. It is misleading because it is valid only when the rope is new and equipment is in good condition.

SASH CORD - Term applied to small 6 x 7 wire ropes commonly made of iron, bronze or copper wires.

SEALE - The name for a type of strand construction that is characterized by: (1) cover wires of a single size (2) the same number of one size of wires in the adjacent layer and (3) each layer having the same length and direction of lay., e.g. 6 x 19 Seale (1-9-9).

SEIZE - To bind securely the end of a wire rope or strand with seizing wire or strand.

SEIZING STRAND - Small strand usually of 7 wires made of soft annealed wire.

SEIZING WIRE - Soft annealed wire.

SERVE - To cover the surface of a wire rope or strand with a wrapping of fiber cord.

SHACKLE - A "U" shaped fitting with pin.

SHEAVE - A grooved pulley for use with rope.

SIEMENS-MARTIN STRAND - A grade of galvanized strand.

SLINGS - Wire ropes made into forms, with or without fittings, for handling loads and so made as to permit the attachment of an operating rope.

SLINGS, BRAIDED - A very flexible sling composed of several individual wire ropes braided into a single sling.

SMOOTH FACED DRUM - Drum with a plain face, not grooved.

SPIRAL GROOVE - Groove which follows the path of a helix around the drum, as the thread of a screw.

SPLICING - Interweaving of two ends of ropes so as to make a continuous or endless length without appreciably increasing the diameter. Also making a loop or eye in the end of a rope by tucking the ends of the strands.

STAINLESS STEEL ROPE - Wire rope made of chrome-nickel steel wires having great resistance to corrosion.

STEEL CLAD ROPE - Rope with individual strands spirally wrapped with flat steel wire.

STONE SAWING STRAND - Usually a 3-wire strand used in quarrying stone or slate.

STRAND - An arrangement of wires helically laid about an axis or another wire for fiber center to produce a symmetrical section.

STRESS - The force or resistance within any solid body to alteration of form; in the case of a solid wire it would be the load on the rope divided by the area of the wire.

STRETCH - The elongation of a wire rope under load.

SWAGED FITTINGS - Fittings into which wire rope can be inserted and then permanently attached by cold pressing (swaging) the shank that encloses the rope. *See FITTING.*

TAG LINE - A small wire rope used to prevent rotation of a load.

TAPERED DRUM - Grooved hoisting drum of tapering diameter.

TAPERING & WELDING - Reducing the diameter of the end of a wire rope and welding it to facilitate reeving.

THIMBLE - Grooved metal fitting to protect the eye of a wire rope.

TILLER ROPE/CABLE - A very flexible operating rope, commonly made by cable laying six 6 x 7 ropes around a fiber core resulting in a 6 x 42 construction. Also a 3/32" 7 x 7 galvanized cable coated to an outside diameter of 3/16" with vinyl or nylon.

TINNED WIRE - Wire coated with tin.

TURNBACK POINT - That point in the traverse of a rope across the face of the drum where it reaches the flange, reverses direction and begins forming the next layer.

TURNBUCKLE - Device attached to wire rope for making limited adjustments in length. It consists of a barrel and right and left hand threaded bolts.

WARRINGTON - A strand construction in which one layer of wires, usually the outer, is composed of alternating large and small wires.

WIRE (round) - Single continuous length of metal cold drawn from a rod.

WIRE ROPE - A plurality of strands laid helically around an axis or a core.

WRAP - Synonymous with the term TURN, it is one turn around a drum.

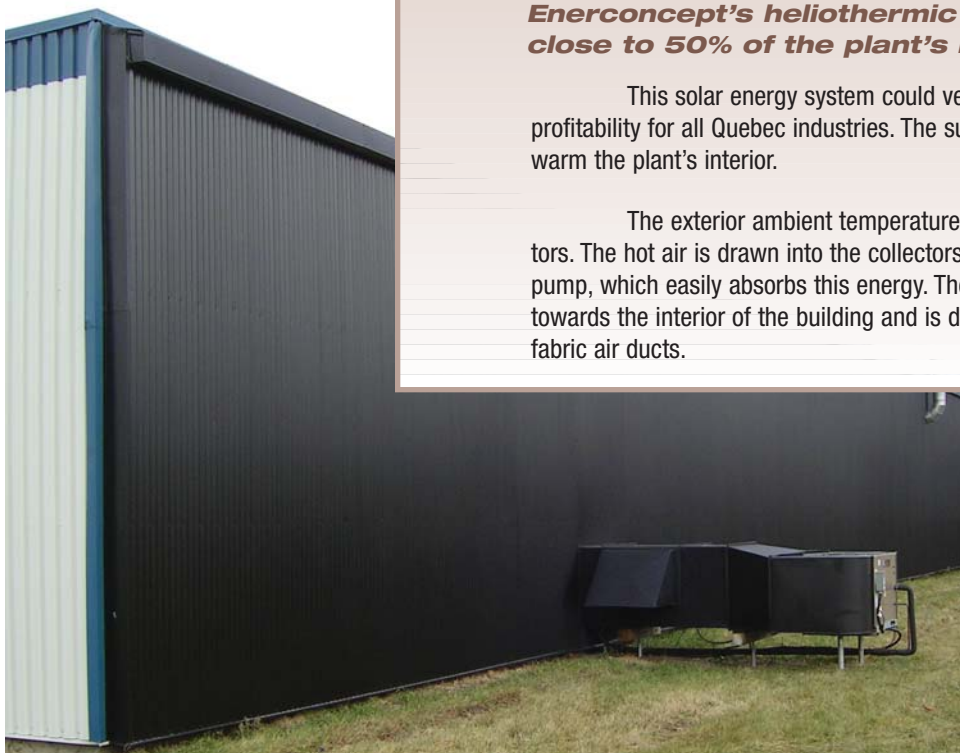


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Specifications

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

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