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NON-DOMESTIC PRODUCT CATALOG



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INSPECTION INSTRUCTIONS

WIRE ROPE SLINGS

INSPECTION FREQUENCY

INITIAL: Prior to initial use

FREQUENT: Each day or shift before the sling is used

PERIODIC INSPECTIONS REQUIRED:

- Normal service - Yearly
- Severe service - Monthly to quarterly
- Special service - As recommended by a qualified professional

INSPECTION RECORDS

INITIAL: Written records not required

FREQUENT: Written records not required

PERIODIC INSPECTIONS RECORDS:

Written records of the most recent periodic inspection shall be maintained

INSPECTION INSTRUCTIONS

CHAIN SLINGS

INSPECTION FREQUENCY

INITIAL: Prior to initial use

FREQUENT: Each day or shift before the sling is used

PERIODIC INSPECTIONS REQUIRED:

- Normal service - Yearly
- Severe service - Monthly to quarterly
- Special service - As recommended by a qualified professional

INSPECTION RECORDS

INITIAL: Written records not required

FREQUENT: Written records not required

PERIODIC INSPECTIONS RECORDS:

Written records of the most recent periodic inspection shall be maintained and shall include condition of the sling

INSPECTION INSTRUCTIONS

SYNTHETIC WEB SLINGS

INSPECTION FREQUENCY

INITIAL: Prior to initial use

FREQUENT: Each day or shift before the sling is used

PERIODIC INSPECTIONS REQUIRED:

- Normal service - Yearly
- Severe service - Monthly to quarterly
- Special service - As recommended by a qualified professional

INSPECTION RECORDS

INITIAL: Written records not required

FREQUENT: Written records not required

PERIODIC INSPECTIONS RECORDS:

Written records of the most recent periodic inspection shall be maintained



INSPECTION INSTRUCTIONS

RIGGING HARDWARE

INSPECTION FREQUENCY

INITIAL: Prior to initial use

FREQUENT: Each day or shift before the hardware is used, semi-permanent and inaccessible locations where frequent inspections are not feasible shall have periodic inspections performed

PERIODIC INSPECTIONS REQUIRED:

- Normal service - Yearly
- Severe service - Monthly to quarterly
- Special service - As recommended by a qualified professional

INSPECTION INSTRUCTIONS

HOOKS

INSPECTION FREQUENCY

INITIAL: Prior to initial use

FREQUENT: Daily to monthly

PERIODIC INSPECTIONS REQUIRED:

- Normal service - Yearly, equipment in place
- Heavy service - Semi-annual, equipment in place unless external conditions indicate disassembly required
- Severe service - Quarterly as in heavy service, detailed inspection may show need for a nondestructive type of testing

INSPECTION RECORDS

INITIAL: Written records not required

FREQUENT: Written records not required

PERIODIC INSPECTIONS RECORDS:

Written records of the most recent periodic inspection shall be maintained

INSPECTION INSTRUCTIONS

RIGGING HARDWARE AND HOOKS

INSPECTION FREQUENCY

INITIAL: Prior to initial use

FREQUENT: Daily to monthly

PERIODIC INSPECTIONS REQUIRED:

- Normal service - Yearly, equipment in place
- Heavy service - Semi-annual, equipment in place unless external conditions indicate disassembly required
- Severe service - Quarterly as in heavy service, detailed inspection may show need for a nondestructive type of testing

INSPECTION RECORDS

INITIAL: Written records not required

FREQUENT: Written records not required

PERIODIC INSPECTIONS RECORDS:

Written records of the most recent periodic inspection shall be maintained



WARNING

BLOCKS

- Failure to design and use tackle block systems properly may cause a load to slip or fall - the result could be serious injury or death.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.
- A potential hazard exists when lifting or dragging heavy loads with tackle block assemblies.
- A tackle block system should be rigged by a qualified person as defined by ANSI/ASME B30.9.
- Instruct workers to keep hands and body away from block sheaves and swivels - and away from pinch points where rope touches block parts or loads.
- Do not side load tackle blocks.

WARNING

BINDERS

- Failure to use this load binder properly may result in serious injury or death.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.
- Do not operate load binder while standing on the load.
- Move handle with caution – it may whip – keep body clear.
- Keep yourself out of the path of the moving handle.
- You must be familiar with state and federal regulations regarding size and number of chain systems required for securing loads on trucks.
- Always consider the safety of nearby workers, as well as, yourself when using load binder.
- While under tension, load binder must not bear against an object.
- Do not throw these instructions away. Keep them close at hand and share them with others who use this load binder.

WARNING

HOIST HOOKS

- A falling load may cause serious injury or death.
- Loads may disengage from hook if proper procedures are not followed.
- Hook must always support the load. The load must never be supported by the latch.
- Never apply more force than the hook's assigned working load limit (wll) rating.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.
- Never lift with the tip of hook.



WARNING

THIMBLES

- Failure to follow the instructions for use and these warnings may cause death or serious injury.
- Thimbles must always be inspected for cracks and wear before use. If worn, distorted or damaged, discard and replace.
- The thimble size must exactly correspond to the diameter or rope being used. Never use a smaller thimble because it will pinch the rope and cause broken and/or displaced wires.

WARNING

MASTER LINKS

- Failure to follow the instructions for use and these warnings may cause death or serious injury.
- Links must always be inspected for wear and distortion before use. If worn, distorted or damaged, discard and replace.
- Do not weld on these links.
- Always stand clear of loads being lifted.

WARNING

SHACKLES

- Failure to follow the instructions for use below and these warnings may cause death or serious injury.
- Shackles must always be inspected for wear, distortion and damage before use. If the pin or bow is worn, distorted or damaged, discard the shackle.
- Do not use round pin shackles in rigging applications.
- Screw pin shackles should not be used if there will be movement on the pin. Movement could cause the pin to unscrew and drop the load.
- Always stand clear of loads being lifted.



WARNING

TURNBUCKLES

- Failure to follow the instructions for use below and these warnings may cause death or serious injury.
- Turnbuckles must always be inspected for wear, distortion, cracks and damage before use. If worn, distorted or damaged, discard and replace.
- Turnbuckles are not designed for angular loading, so the loading must be applied in a straight line.

WARNING

SWIVELS

- Failure to follow the instructions for use below and these warnings may cause death or serious injury.
- Use in a corrosive environment requires shank and nut to be inspected in accordance with ASME B30.10-1.10.4 (b)(5)(c) 2009.
- Swivels must always be inspected for wear, distortion, damage and corrosion before use. If worn, distorted, damaged or corroded, discard and replace.
- Always stand clear of loads being lifted.
- Do not angle load.

WARNING

GRAB / SLIP HOOKS

- Failure to follow the instructions for use below and these warnings may cause death or serious injury.
- Never lift with the tip of the hook.
- Never point load a hook.
- Do not use hooks for lifting personnel.
- Hooks must always be inspected for wear, distortion and damage before use. If worn, distorted or damaged, discard and replace.
- Always stand clear of loads being lifted.



WARNING

PROOF COIL CONNECTING LINKS

- Failure to follow the instructions for use below and these warnings may cause death or serious injury.
- Do not use connecting links for overhead lifting.
- Never re-use connecting links.
- Connecting links must always be inspected for wear, distortion and tightness before use. If worn, distorted or damaged, discard and replace.

WARNING

DOUBLE GRIP CLIPS

- Failure to read, understand and follow these instructions may cause death or serious injury.
- Read and understand these instructions before using clips.
- Prepare wire rope end termination only as instructed.
- Do not use with plastic coated wire rope.
- Apply first load to test the assembly. This load should be of equal or greater weight than loads expected in use. Next, check and retighten nuts to recommended torque.
- Double Grip Clips are to be used for making eye termination assemblies.
 - Only with right regular lay wire rope
 - Only for non-critical light duty uses with small applied loads, such as hand rails, fencing, guard rails, etc.

WARNING

MALLEABLE CLIPS

- Failure to read, understand and follow these instructions may cause injury and property damage.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.
- Read and understand these instructions before using malleable clips.
- Never use malleable clips for critical, heavy duty or overhead loads, such as lifting slings, support lines, guy lines, towing lines, tie downs, scaffolds, etc.
- Malleable clips are to be used for making eye termination assemblies.
 - Only with right regular lay wire rope
 - Only for non-critical light duty uses with small applied loads, such as hand rails, fencing, guard rails, etc.
- Apply first load to test the assembly. This load should be of equal or greater weight than loads expected in use. Next, check and retighten nuts to recommended torque.



WARNING

EYE BOLTS

- Failure to follow the instructions for use below and these Warnings may cause death or serious injury.
- Rated capacity is drastically reduced when loading at any angle.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.
- Loading must never be made at an angle greater than 45° from bolt centerline.
- At any angle of 45°, rated capacity is reduced to 1/4 of the tabulated value.
- Loads should always be applied to lifting eyes in the plane of the eye, not at some angle to this plane.
- Shoulder lifting eyes must be properly seated (should bear firmly against the mating part) otherwise the working loads must be reduced substantially. A steel washer or spacer may be required for proper seating.

WARNING

HOOK LATCH KITS

- Failure to follow the instructions for use below and these Warnings may cause death or serious injury.
- Always inspect hook and latch before use.
- Never use a latch that is distorted or bent.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.
- Loads may disengage from hook if proper procedures are not followed.
- A falling load may cause serious injury or death.
- See OSHA rule 1926.1431(g) and 1926.1501(g). A hook and latch without positive lock secured with a bolt, nut and cotter must not be used for personnel lifting.
- Hook must always support the load. The load must never be supported by the latch.
- Read and understand these instructions before using hook and latch.

WARNING

CHAIN AND CABLE PULLERS

Chain Pullers:

- Never apply loads greater than the specified tonnage.
- Keep the load hooks in line with the chain.
- Never use the chain with a twist or kink.
- Never use units where parts are deformed by overload operations.
- Never use in ways that would produce shock pressures.
- Never try to lift or suspend load.
- Never apply cheater bars or other objects that would tamper with the integrity of the original unit.
- Designed for horizontal pulling applications.

Cable pullers:

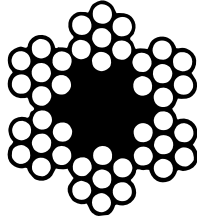
- Do not exceed working load limit.
- Do not lift people or loads over people.
- Do not use handle extender or cheater bar.
- Inspect unit before each use for frayed cable or any bent or damaged components.



COMMON CLASSIFICATION OF WIRE ROPE

6 x 7 Class Wire Rope

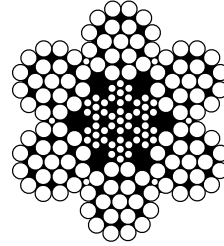
6 strands, 7 wires per strand



This construction is used where ropes are dragged over the ground or over rollers and resistance to wear abrasion are important factors. The wires are quite large and will stand a great deal of wear. The 6 x 7 is a stiff rope and needs sheaves and drums of large sizes. It will not stand bending stresses, as well as, ropes with a large number of wires.

6 x 19 Class Wire Rope

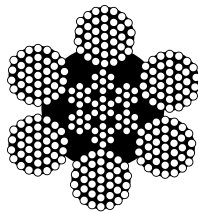
6 strands, nominally 19 main wire per strand



This class is most widely used and is found in its many variations throughout nearly all industries. With its combination of flexibility and wear resistance, rope in this class can be suited to the specific needs of diverse kinds of machinery and equipment. The designation of 6 x 19 is only nominal as the number of wires per strand ranges from 15 to 26.

6 x 37 Class Wire Rope

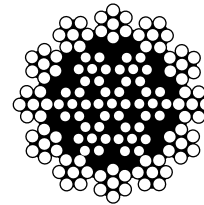
6 strands, 37 wires per strand



The 6 x 37 class of wire rope is characterized by the relatively large number of wires used in each strand.

Ropes of this class are among the most flexible available, but their resistance to abrasion is less than the 6 x 19 class. The designation of 6 x 37 is only nominal as the number of wires per strand ranges from 27 to 49.

19 x 7 Rotation Resistant Wire Rope

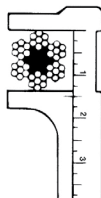


The 19 x 7 rotation resistant rope consists of an inner layer of 6 strands of 7 wires each, made left lang lay over a strand core, and an outer layer of 12 strands, each of 7 wires, made in right regular lay. It is this combination of opposing lays which enables the rope to resist the tendency to rotate when in service.

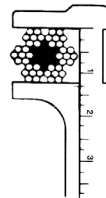
HOW TO CALIPER WIRE ROPE

Rope diameters are determined by measuring the circle that just touches the extreme outer limits of the strands – that is, the greatest dimension that can be measured with a pair of parallel-jawed calipers or machinists caliper square. A mistake could be made by measuring the smaller dimension.

CORRECT



INCORRECT



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SELECTING WIRE ROPE

To get the best service of wire rope on any specific installation, the following five principal factors should generally be considered. The proper choice of rope could be made by correctly estimating the relative importance of each of these requirements. Finally the rope should be selected which would have the qualities most suitable to withstand the combined effect of the destructive factors which may be encountered.

TENSILE STRENGTH

After giving consideration to the factor of safety the rope should have sufficient strength to withstand, the maximum load to be applied.

ABRASIVE RESISTANCE

Abrasive wear removes metal from the cross section of outer wires of a wire rope where it is exposed. Larger diameter wires offer greater metallic area to withstand abrasive wear. Resistance to abrasive wear can be determined by three principal factors: (i) Diameter of outer wires, (ii) Grade of wire, (iii) Distribution of wearing surface. In short, resistance to abrasion wear in proportion to the severity of the abrasive factors, to which the rope is to be subjected, should be considered.

FATIGUE RESISTANCE

Bending fatigue is caused by the action of bending of wire rope around sheaves, drums, etc. Apart from load, speed which the wire rope has to encounter is also an important factor. There is a definite relationship between the diameter of outer wires of rope and diameter of the sheave or drums, etc. which effect the service life of rope. In short, ability to withstand the effects of bending and vibrations to be encountered, should be considered.

CRUSHING STRENGTH

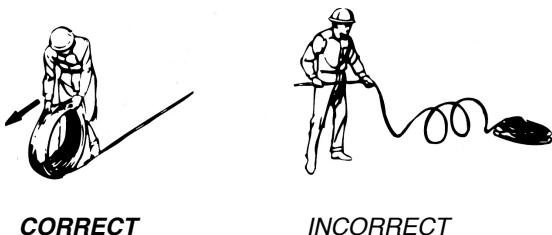
There are two principal detrimental effects when wire ropes are subjected to the action of lateral forces. First, the wires become damaged by radial pressure and second, the cross section of wire becomes distorted. Ropes that vibrate in a span often strike repeatedly against external objects causing flattening of wires. When rope is repeatedly flexed, cracks develop in the hardened surface of wires. Wire breakage follows thereafter. In the second case, the wires, strands and the core are disturbed from their proper shapes and position resulting in premature wire breakage. Therefore, it is necessary to select a wire rope which has sufficient lateral stability to withstand the crushing forces it may have to encounter. Generally Regular or Ordinary lay ropes are preferable to Lang Lay ropes and similarly six strand ropes are recommended over eight strand ropes because of their more lateral stability.

CORROSION

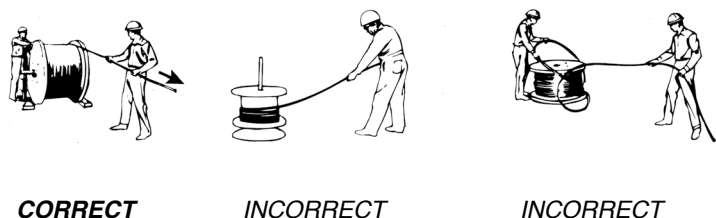
A large number of wire ropes fail because of corrosion which may be either external, internal or both. Normally corrosion takes place because of acid or alkaline atmosphere which is due to sea, air, industrial fumes or other conditions. In most cases, corrosion cannot be completely eliminated but it 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.

UNCOILING AND UNREELING WIRE ROPE

UNCOILING



UNREELING





BASIC INFORMATION REQUIRED TO PROPERLY USE WIRE ROPE

1. WIRE ROPE WILL FAIL IF WORN OUT, OVERLOADED, MISUSED, DAMAGED OR IMPROPERLY MAINTAINED.
2. When in service, wire rope loses strength and work capability. Abuse and misuse increases the rate of loss.
3. The nominal strength of wire rope applies only to new, unused wire rope.
4. The nominal strength of wire rope should be considered the straight line pull which will actually break a new, unused wire rope. The nominal strength of wire rope should NEVER BE USED AS ITS WORKING LOAD.
5. To determine the working load of a wire rope, the nominal strength must be reduced by a design factor (formerly called a safety factor). The design factor will vary depending upon the type of machine and installation, and the work performed. YOU must determine the applicable design factor for your use.

For example, a Design Factor of "5" means that the nominal strength of the wire rope must be divided by five to determine the maximum load that can be applied to the rope system.

Design factors have been established by OSHA, by ANSI, by ASME and similar government and industrial organizations.

No wire rope or wire rope sling should ever be installed or used without full knowledge and consideration of the design factor for the application.

6. WIRE ROPES WEAR OUT. The strength of a wire rope begins to decrease when the rope is put in use and continues to decrease with each use.
7. NEVER OVERLOAD A WIRE ROPE. This means never use the rope where the load applied to it is greater than the working load determined by dividing the nominal strength of the rope by the appropriate design factor.
8. NEVER "SHOCK LOAD". A sudden application of force or load can cause both visible external damage and internal damage. There is no practical way to estimate the force applied by shock loading a rope. The sudden release of a load can also damage a wire rope.
9. Lubricant is applied to the wires and strands of a wire rope when it is manufactured. This lubricant is depleted when the rope is in service and should be replaced periodically.

10. REGULAR, PERIODIC INSPECTIONS of the wire rope, and keeping PERMANENT RECORDS SIGNED BY A QUALIFIED PERSON, are REQUIRED BY OSHA FOR ALMOST EVERY WIRE ROPE INSTALLATION. The purpose of inspection is to determine whether or not a wire rope or wire rope sling may continue to be safely used on that application. Inspection criteria, including number and location of broken wires, wear and elongation, have been established by OSHA, ANSI, ASME and similar organizations.

IF IN DOUBT, REPLACE THE ROPE

An inspection should include verification that none of the specified removal criteria for this usage are met by checking for such things as:

- Surface wear: Normal and unusual
- Broken wires: Number and location
- Reduction in diameter
- Rope stretch (elongation)
- Integrity of end attachments

In addition, an inspection should include the condition of sheaves, drums and other apparatus with which the rope makes contact.

11. When a wire rope has been removed from service because it is no longer suitable for use, IT MUST NOT BE REUSED ON ANOTHER APPLICATION.
12. Every wire rope user should be aware of the fact that each type of fitting attached to a wire rope has a specific efficiency rating which can reduce the working load of the rope assembly or rope system and this must be given due consideration to determine the capacity of a wire rope system.
13. Some conditions that can lead to problems in a wire rope system include:
 - Sheaves that are too small, worn or corrugated cause damage to a wire rope.
 - Broken wires mean a loss of strength.
 - Kinks permanently damage a wire rope and must be avoided.
 - Wire ropes are damaged by knots and wire ropes with knots must never be used.
 - Environmental factors such as corrosive conditions and heat can damage a wire rope.
 - Lack of lubrication can significantly shorten the useful service life of a wire rope.
 - Contact with electrical wires and the result in arcing will damage a wire rope.



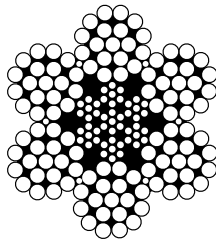
POWER STRAND WIRE ROPE

6 x 19 CLASS BRIGHT

- Meets design requirements according to Federal Specification RR-W-410.

6 X 19 BIWRC

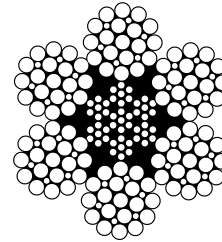
IMPROVED PLOW STEEL
TYPE 1 CLASS 2
CONSTRUCTION 1



Indusco Part #	Diameter	Weight per Foot	Working Load Limit*
989 00116	1/4	.11	1,060
989 00191	5/16	.17	1,832
989 00261	3/8	.24	2,264
989 00336	7/16	.35	3,556
989 00421	1/2	.46	4,600
989 00511	9/16	.59	5,800
989 00606	5/8	.72	7,160
989 00691	3/4	1.04	10,240
989 00776	7/8	1.42	13,840
989 00851	1	1.85	17,960
989 00906	1-1/8	2.34	22,600

6 X 25 BIWRC

EXTRA IMPROVED PLOW STEEL
TYPE 1 CLASS 2
CONSTRUCTION 4



Part #	Diameter	Weight per Foot	Working Load Limit*
989 00117	1/4	.11	1,360
989 00190	5/16	.17	2,108
989 00262	3/8	.24	3,020
989 00337	7/16	.35	4,080
989 00422	1/2	.46	5,320
989 00514	9/16	.59	6,720
989 00610	5/8	.72	8,240
989 00692	3/4	1.04	11,760
989 00775	7/8	1.42	15,920
989 00850	1	1.85	20,680
989 00907	1-1/8	2.34	26,000
989 00962	1-1/4	2.89	31,960
989 00997	1-3/8	3.50	38,400
989 01026	1-1/2	4.16	45,600

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



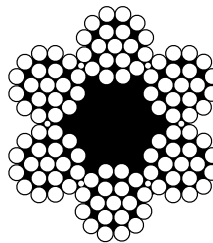
POWER STRAND WIRE ROPE

6 x 19 CLASS BRIGHT FIBER CORE

• Meets design requirements according to Federal Specification RR-W-410.

6 X 19 BRIGHT FIBER CORE

IMPROVED PLOW STEEL
TYPE 1 CLASS 2
CONSTRUCTION 1



Indusco Part #	Diameter	Weight per Foot	Working Load Limit*
989 00074	3/16	.07	620
989 00086	1/4	.10	1,096
989 00163	5/16	.15	1,704
989 00231	3/8	.22	2,440
989 00306	7/16	.29	3,308
989 00376	1/2	.38	4,280
989 00476	9/16	.48	5,400
989 00556	5/8	.59	6,680
989 00651	3/4	.85	9,520
989 00746	7/8	1.29	12,880
989 00821	1	1.50	16,720
989 00886	1-1/8	1.90	21,040
989 00956	1-1/4	2.34	25,840

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



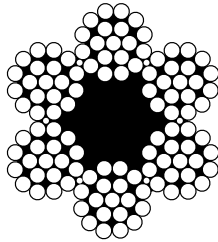
POWER STRAND WIRE ROPE

6 x 19 CLASS GALVANIZED FIBER CORE

- Meets design requirements according to Federal Specification RR-W-410.

6 X 19 GALVANIZED FIBER CORE

IMPROVED PLOW STEEL
TYPE 1 CLASS 2
CONSTRUCTION 1



Indusco Part #	Diameter	Weight per Foot	Working Load Limit*
989 00096	1/4	.10	988
989 00171	5/16	.15	1,532
989 00241	3/8	.22	2,196
989 00316	7/16	.29	2,976
989 00391	1/2	.38	3,852
989 00491	9/16	.48	4,860
989 00571	5/8	.59	6,000
989 00666	3/4	.85	8,560
989 00756	7/8	1.15	11,600
989 00831	1	1.50	15,040

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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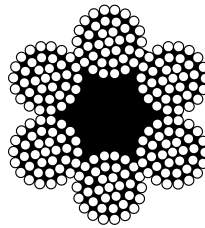
POWER STRAND WIRE ROPE

6 x 36 CLASS BRIGHT FIBER CORE

• Meets design requirements according to Federal Specification RR-W-410.

6 X 36 BRIGHT FIBER CORE

IMPROVED PLOW STEEL
TYPE 1 CLASS 3
CONSTRUCTION 1



Indusco Part #	Diameter	Weight per Foot	*Working Load Limit
989 00091	1/4	.10	1,096
989 00166	5/16	.15	1,704
989 00236	3/8	.24	2,440
989 00311	7/16	.29	3,308
989 00381	1/2	.38	4,280
989 00481	9/16	.48	5,400
989 00561	5/8	.59	6,680
989 00656	3/4	.85	9,520
989 00751	7/8	1.29	12,880
989 00826	1	1.50	16,720

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



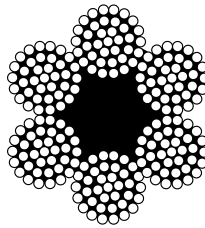
POWER STRAND WIRE ROPE

6 x 36 CLASS GALVANIZED FIBER CORE

- Meets design requirements according to Federal Specification RR-W-410.

6 X 36 GALVANIZED FIBER CORE

IMPROVED PLOW STEEL
TYPE 1 CLASS 3
CONSTRUCTION 1



Indusco Part #	Diameter	Weight per Foot	*Working Load Limit
989 00101	1/4	.10	988
989 00176	5/16	.15	1,532
989 00246	3/8	.22	2,196
989 00321	7/16	.29	2,976
989 00396	1/2	.38	3,852
989 00496	9/16	.48	4,860
989 00576	5/8	.59	6,000
989 00671	3/4	.85	8,560
989 00761	7/8	1.15	11,600
989 00836	1	1.50	15,040
989 00901	1 1/8	1.90	21,040
989 00956	1 1/4	2.63	25,840

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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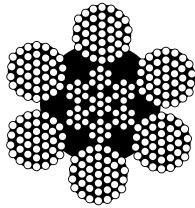
POWER STRAND WIRE ROPE

6 x 36 CLASS BRIGHT IWRC

- Meets design requirements according to Federal Specification RR-W-410.

6 X 36 BIWRC

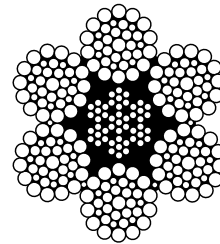
IMPROVED PLOW STEEL
TYPE 1 CLASS 3
CONSTRUCTION 1



Indusco Part #	Diameter	Weight per Foot	*Working Load Limit
989 00121	1/4	.11	1,176
989 00196	5/16	.17	1,832
989 00266	3/8	.24	2,624
989 00341	7/16	.35	3,556
989 00431	1/2	.46	4,600
989 00521	9/16	.59	5,800
989 00616	5/8	.72	7,080
989 00701	3/4	1.04	10,240
989 00786	7/8	1.42	13,840
989 00861	1	1.85	17,960
989 00916	1-1/8	2.34	22,600

6 X 36 BIWRC

EXTRA IMPROVED PLOW STEEL
TYPE 1 CLASS 3
CONSTRUCTION 6



Indusco Part #	Diameter	Weight per Foot	*Working Load Limit
989 00122	1/4	.11	1,360
989 00194	5/16	.17	2,108
989 00267	3/8	.24	3,020
989 00342	7/16	.35	4,080
989 00432	1/2	.46	5,320
989 00522	9/16	.59	6,720
989 00617	5/8	.72	8,240
989 00702	3/4	1.04	11,760
989 00785	7/8	1.42	15,920
989 00862	1	1.85	20,680
989 00917	1-1/8	2.34	26,000
989 00967	1-1/4	2.89	31,960
989 01003	1-3/8	3.50	38,400
989 01031	1-1/2	4.16	45,600
989 01056	1-3/4	5.67	61,200
989 01076	2	7.40	79,200
989 01086	2-1/4	9.35	98,800

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



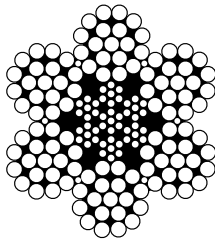
POWER STRAND WIRE ROPE

6 x 19 CLASS GALVANIZED IWRC

- Meets design requirements according to Federal Specification RR-W-410.

6 X 19 GIWRC

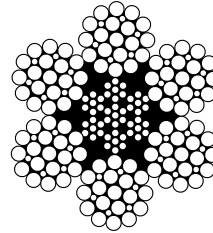
IMPROVED PLOW STEEL
TYPE 1 CLASS 2
CONSTRUCTION 1



Indusco Part #	Diameter	Weight per Foot	*Working Load Limit
989 00131	1/4	.11	1,060
989 00206	5/16	.17	1,648
989 00281	3/8	.24	2,360
989 00351	7/16	.35	3,200
989 00451	1/2	.46	4,140
989 00541	9/16	.59	5,220
989 00631	5/8	.72	6,440
989 00716	3/4	1.04	9,200
989 00746	7/8	1.42	12,400
989 00871	1	1.85	16,160

6 X 25 GIWRC

EXTRA IMPROVED PLOW STEEL
TYPE 1 CLASS 2
CONSTRUCTION 4



Indusco Part #	Diameter	Weight per Foot	*Working Load Limit
989 00133	1/4	.11	1,220
989 00208	5/16	.17	1,890
989 00283	3/8	.26	2,720
989 00353	7/16	.35	3,670
989 00452	1/2	.46	4,800
989 00540	9/16	.59	6,040
989 00633	5/8	.72	7,400
989 00715	3/4	1.04	10,600
989 00795	7/8	1.42	14,320
989 00874	1	1.85	18,600
989 00928	1-1/8	2.34	23,400
989 00979	1-1/4	2.89	31,960
989 01007	1-3/8	3.50	34,400
989 01037	1-1/2	4.16	45,600

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



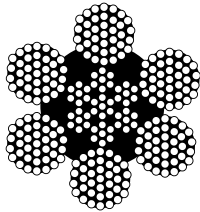
POWER STRAND WIRE ROPE

6 x 36 CLASS GALVANIZED IWRC

• Meets design requirements according to Federal Specification RR-W-410.

6 X 36 GIWRC

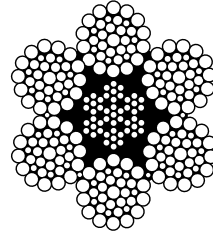
IMPROVED PLOW STEEL
TYPE 1 CLASS 3
CONSTRUCTION 1



Indusco Part #	Diameter	Weight per Foot	*Working Load Limit
989 00136	1/4	.11	1,060
989 00211	5/16	.17	1,648
989 00286	3/8	.24	2,360
989 00356	7/16	.35	3,200
989 00456	1/2	.46	4,140
989 00546	9/16	.59	5,220
989 00636	5/8	.72	6,440
989 00721	3/4	1.04	9,200
989 00801	7/8	1.42	12,400
989 99999	1	1.85	16,160

6 X 36 GIWRC

IMPROVED PLOW STEEL
TYPE 1 CLASS 3
CONSTRUCTION 6



Indusco Part #	Diameter	Weight per Foot	*Working Load Limit
989 00137	1/4	.11	1,220
989 00213	5/16	.17	1,890
989 00288	3/8	.24	2,720
989 00355	7/16	.35	3,670
989 00458	1/2	.46	4,800
989 00545	9/16	.59	6,040
989 00635	5/8	.72	7,400
989 00722	3/4	1.04	10,600
989 00799	7/8	1.42	14,320
989 00876	1	1.85	18,600
989 00931	1-1/8	2.34	23,400
989 00984	1-1/4	2.89	28,760
989 01013	1-3/8	3.50	34,560
989 01043	1-1/2	4.16	41,040
989 01044	1-5/8	4.88	47,520
989 01060	1-3/4	5.66	55,080
989 01078	2	7.39	71,280
989 01096	2-1/4	9.35	88,920

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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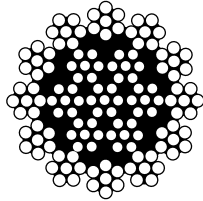


POWER STRAND WIRE ROPE

ROTATION RESISTANT 19 x 7 CLASS BRIGHT IWRC

- The 19 x 7 rotation resistant wire rope has been developed for services where a minimum rotation or spinning of the rope is highly desirable. It is particularly applicable for the lifting or lowering of free loads with single part line only.
- Meets design requirements according to Federal Specification RR-W-410.

19 x 7 BIWRC

			
Indusco Part #	Diameter	Weight per Foot	Working Load Limit*
IMPROVED PLOW STEEL			
989 00126	1/4	.12	1,000
989 00201	5/16	.18	1,560
989 00276	3/8	.25	2,240
989 00346	7/16	.35	3,030
989 00446	1/2	.45	3,940
989 00536	9/16	.58	4,960
989 00626	5/8	.71	6,120
989 00712	3/4	1.02	8,720
EXTRA IMPROVED PLOW STEEL			
989 00126	1/4	.12	1,090
989 00203	5/16	.18	1,720
989 00278	3/8	.25	2,440
989 00348	7/16	.35	3,320
989 00448	1/2	.45	4,320
989 00537	9/16	.58	5,440
989 00626	5/8	.71	6,720
989 00712	3/4	1.02	9,600
989 00793	7/8	1.39	13,000
989 00868	1	1.82	16,800

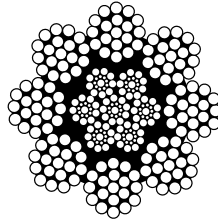
*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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POWER STRAND WIRE ROPE

SPIN RESISTANT 8 x 25 BRIGHT IWRC

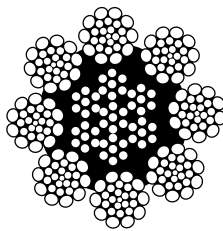


Indusco Part #	Diameter	Weight per Foot	Working Load Limit*
989 00441	1/2	.48	4,640
989 00533	9/16	.61	5,880
989 00630	5/8	.76	7,240
989 00709	3/4	1.10	10,360

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

POWER STRAND WIRE ROPE

COMPACTED SPIN RESISTANT 18 x 7 BRIGHT IWRC



Indusco Part #	Diameter	Weight per Foot	Working Load Limit*
989 00445	1/2	.54	6,120
989 00535	9/16	.69	7,720
989 00629	5/8	.85	9,080
989 00714	3/4	1.25	12,960

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

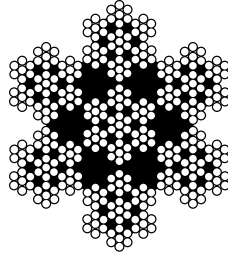
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POWER STRAND WIRE ROPE

CABLE LAID 7 x 7 x 7 AND 7 x 7 x 19 GALVANIZED

- Used for making very flexible wire rope slings.

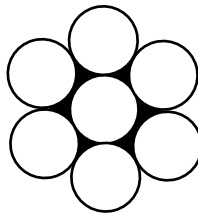


Indusco Part #	Diameter	Construction	Weight per Foot	Working Load Limit*
989 00143	1/4 (9/32)	7x7x7	.11	1,300
989 00291	3/8	7x7x7	.21	2,220
989 00466	1/2	7x7x7	.37	3,820
989 00641	5/8	7x7x7	.58	5,840
989 00728	3/4	7x7x19	.88	8,560
989 00808	7/8	7x7x19	1.19	11,980
989 00882	1	7x7x19	1.56	15,700

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

1 x 7 GALVANIZED STEEL GUY WIRE EXTRA HIGH STRENGTH

- Used for standing rigging.
- Left lay.
- Meets design requirements per ASTM A475-Class-A.



Indusco Part #	Diameter	Construction	Weight per Foot	Working Load Limit*
989 00146	1/4	1X7	.12	1,330
989 00216	5/16	1X7	.21	2,240
989 00296	3/8	1X7	.28	3,080
989 00361	7/16	1X7	.36	4,160
989 00409	1/2	1X7	.54	5,380

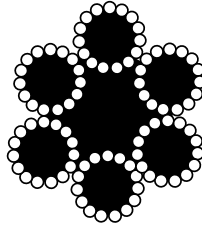
*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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POWER STRAND WIRE ROPE

6 x 15 LASHING WIRE BRIGHT FIBER CORE



⚠ WARNING

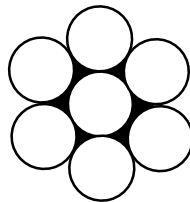
- NEVER USE FOR LIFTING.
- 1,000 foot reels only.

Indusco Part #	Diameter	Finish	Weight per Foot	Working Load Limit*
989 01471	3/8	Bright	.15	1,000
989 01476	1/2	Bright	.25	2,000
989 01481	5/8	Bright	.39	3,300
989 01486	3/4	Bright	.60	5,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

POWER STRAND WIRE ROPE

1 x 7 IRON SEIZING WIRE GALVANIZED



⚠ WARNING

- NEVER USE FOR LIFTING OR PULLING.
- Soft iron wire may be used for seizing or tying.
- RR-W-410 Type 5 Class 1.

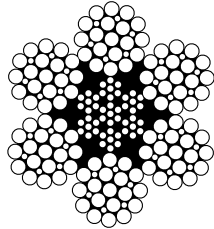
Indusco Part #	Diameter	Weight Per 1000 Foot	Working Load Limit
205 00589	1/16	10	NOT RATED
205 00597	3/32	20	NOT RATED
205 00607	1/8	33	NOT RATED
205 00200	5/32	50	NOT RATED



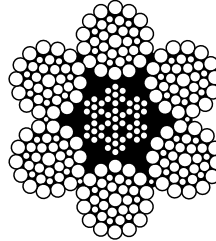
POWER STRAND WIRE ROPE

STAINLESS STEEL WIRE ROPE

6 x 25 IWRC
Type 304** Stainless Steel



6 x 36 IWRC
Type 304** Stainless Steel



Indusco Part #	Diameter	Weight per Foot	Working Load Limit*
6 X 25 IWRC			
989 00001	1/4	.11	1,360
989 00003	5/16	.18	1,660
989 00005	3/8	.24	2,340
989 00007	7/16	.36	3,160
989 00009	1/2	.46	4,560
989 00011	9/16	.59	5,700
989 00016	5/8	.72	7,000
989 00021	3/4	.93	8,800
989 00023	1	1.87	17,080
6 X 36 IWRC			
989 00026	1/4	.10	1,080
989 00031	5/16	.18	1,660
989 00036	3/8	.24	2,340
989 00041	7/16	.33	3,160
989 00046	1/2	.43	4,160
989 00051	9/16	.54	5,120
989 00056	5/8	.67	6,280
989 00061	3/4	.96	8,880
989 00066	7/8	1.31	11,940
989 00071	1	1.70	15,460

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

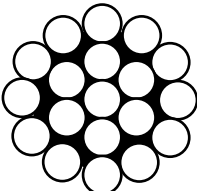
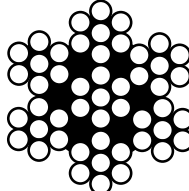
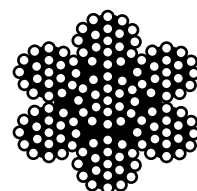
**TYPE 316 STAINLESS STEEL AVAILABLE UPON REQUEST

www.mazzellacompanies.com



GALVANIZED STEEL CABLE

- **NOT FOR AIRCRAFT USE**
- Mill Spec GAC available upon request.

1x19	7x7	7x19
		
SEMI FLEXIBLE	FLEXIBLE RR-W-410 TYPE 6 CLASS 2	EXTRA FLEXIBLE RR-W-410 TYPE 6 CLASS 3

Size	Indusco Part #	Working Load Limit*	Indusco Part #	Working Load Limit*	Indusco Part #	Working Load Limit*	Approx. Weight per 1000 ft.
3/64	-	-	205 00004	54	-	-	4.2
1/16	205 00021	100	205 00026	96	-	-	7.5
5/64	-	-	205 00057	130	-	-	11
3/32	205 00061	240	205 00066	184	205 00106	200	16
1/8	205 00131	420	205 00131	340	205 00171	400	30
5/32	205 00201	660	205 00206	520	205 00241	560	45
3/16	205 00266	940	205 00271	740	205 00301	840	65
7/32	-	-	-	-	205 00328	1,100	83
1/4	-	-	205 00331	1,200	205 00356	1,400	110
9/32	-	-	-	-	205 00378	1,600	140
5/16	-	-	-	-	205 00396	1,960	180
3/8	-	-	-	-	205 00426	2,880	250

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



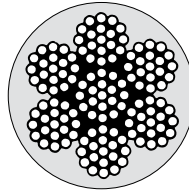
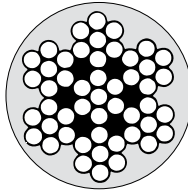
CLEAR VINYL COATED CABLE GALVANIZED

NOT FOR AIRCRAFT USE

- Available in different colors with transparent or opaque finish.
- Nylon Coated Cable also available

7 X 7

7 X 19



INDUSTRY STANDARD

Indusco Part #	Cable Diameter	Cable + Coating Diameter	Construction	Working Load Limit*	Approx. Weight per 1000 ft.
205 00635	3/64	1/16	7X7	54	6.2
205 00676	1/16	3/32	7X7	96	11.8
205 00681	1/16	1/8	7X7	96	13.5
205 00686	3/32	1/8	7X7	184	22.0
205 00716	3/32	3/16	7X7	184	24.0
205 00751	1/8	3/16	7X7	340	35.2
205 00781	1/8	3/16	7X19	400	36.2
205 00816	3/16	1/4	7X19	840	77.5
205 00846	1/4	5/16	7X19	1,400	123.0
205 00876	5/16	3/8	7X19	1,960	197.0
205 00886	3/8	7/16	7X19	2,880	326.0
989 00350	7/16	1/2	6X19 GIWRC	3,200	400.0
989 00461	1/2	5/8	6X19 GIWRC	4,140	500.0

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

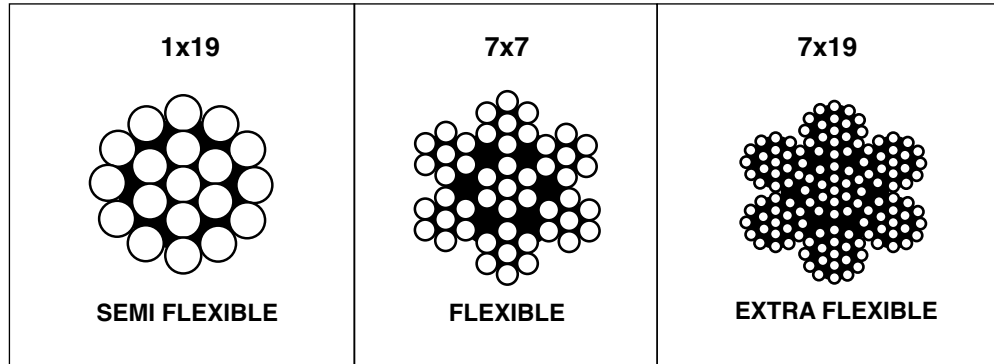
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STAINLESS STEEL CABLE - TYPE 304 AND 316

• **NOT FOR AIRCRAFT USE**

• Mill Spec SSAC available upon request.



STAINLESS STEEL CABLE - TYPE 304

Size	Indusco Part #	Working Load Limit*	Indusco Part #	Working Load Limit*	Indusco Part #	Working Load Limit*	Approx. Weight per 1000 ft.
3/64	-	-	205 00456	54	-	-	4.2
1/16	205 00461	100	205 00466	96	-	-	7.5
3/32	205 0071	240	205 00476	184	205 00481	200	17
1/8	205 00486	420	205 00491	340	205 00496	352	29
5/32	205 00506	660	205 00511	480	205 00516	480	45
3/16	205 00521	940	205 00526	740	205 00531	740	65
7/32	-	-	-	-	205 00556	1,000	86
1/4	205 00541	1,640	-	-	205 00546	1,280	110
5/16	205 00561	2,500	-	-	205 00566	1,800	175
3/8	205 00576	3,500	-	-	205 00581	2,400	250

STAINLESS STEEL CABLE - TYPE 316

1/16	-	-	205 00468	72	-	-	7.5
3/32	-	-	205 00476	140	-	-	17
1/8	205 00487	350	205 00493	272	205 00501	260	29
3/16	205 00522	800	-	-	205 00536	580	65
1/4	205 00542	1,380	-	-	205 00551	980	110
5/16	205 00562	2,120	-	-	205 00571	1,520	175
3/8	-	-	-	-	205 00586	2,200	250

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

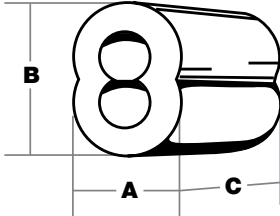
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WIRE ROPE SLEEVES

WARNING

- **NOT FOR LIFTING.**
- Available in a range of finishes and sizes ranging from 1/32" to 5/8".
- When properly applied, hourglass sleeves are capable of supporting 90% of load strength of cable to which they are attached.



Indusco Part #	Trade Size	A	B	C	Weight Per 100 pieces (Approximate)
ALUMINUM					
776 00517	1/32	.09	.14	.25	.10
776 00519	3/64	.13	.20	.36	.10
776 00521	1/16	.17	.25	.38	.10
776 00526	3/32	.28	.40	.50	.30
776 00531	1/8	.34	.50	.63	.60
776 00536	5/32	.38	.56	.69	.80
776 00541	3/16	.44	.67	1.00	1.50
776 00551	7/32	.50	.75	1.06	1.60
776 00546	1/4	.54	.82	1.13	2.80
776 00556	5/16	.69	1.03	1.25	4.40
776 00561	3/8	.75	1.16	1.44	5.80
776 00566	7/16	.94	1.44	1.69	11.70
776 00571	1/2	1.06	1.63	1.93	19.00
COPPER					
776 00576	1/16	.17	.25	.38	.29
776 00581	3/32	.28	.40	.50	.60
776 00586	1/8	.34	.50	.63	1.60
776 00591	5/32	.38	.56	.69	2.25
776 00596	3/16	.44	.67	1.00	5.20
776 00601	1/4	.54	.82	1.13	7.90
776 00606	5/16	.69	1.03	1.25	12.00
776 00611	3/8	.75	1.16	1.44	16.00
ZINC PLATED COPPER					
776 00616	3/64	.13	.19	.38	.18
776 00621	1/16	.17	.25	.38	.30
776 00626	3/32	.28	.40	.50	.60
776 00631	1/8	.34	.50	.63	1.60
776 00636	5/32	.38	.56	.69	2.30
776 00641	3/16	.44	.67	1.00	5.20
776 00646	1/4	.54	.82	1.13	8.00
776 00651	5/16	.69	1.03	1.25	12.00
776 00656	3/8	.75	1.16	1.44	16.00
776 00661	1/2	1.06	1.63	1.93	40.00
776 00666	5/8	1.25	1.94	2.00	82.00



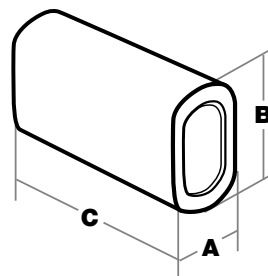
STAINLESS STEEL WIRE ROPE SLEEVES

⚠ WARNING

• NOT FOR LIFTING

- Available in a range of finishes and sizes ranging from 1/32" to 5/8".
- When properly applied, hourglass sleeves are capable of supporting 90% of load strength of cable to which they are attached.

Indusco Part #	Trade Size	A	B	C	Weight Per 100 pieces (Approximate)
STAINLESS STEEL (OVAL SHAPE)					
776 00401	1/16	.13	.21	.38	.15
776 00396	3/32	.18	.30	.38	.20
776 00389	1/8	.23	.36	.38	.40
776 00390	3/16	.35	.56	.98	2.00
776 00391	1/4	.45	.71	1.14	4.50



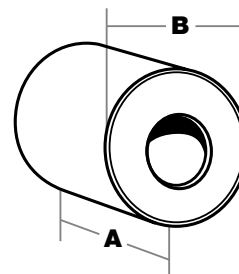
WIRE ROPE STOPS

⚠ WARNING

• NOT FOR LIFTING.

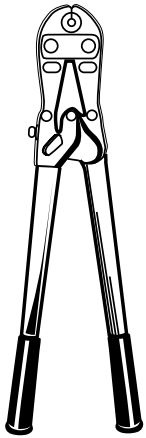
- When properly attached, stop sleeves are capable of holding only 1/3 of the load strength of the cable to which they are attached.

Indusco Part #	Trade Size	A	B	Weight Per 100 pieces (Approximate)
ALUMINUM				
838 00091	1/16	.25	.16	.06
838 00096	3/32	.34	.31	.23
838 00101	1/8	.34	.31	.21
838 00106	5/32	.44	.34	.37
838 00111	3/16	.44	.34	.35
838 00116	1/4	.69	.69	2.10
838 00121	5/16	.69	.69	5.00
COPPER				
838 00002	1/32	.13	.20	.08
838 00001	1/16	.25	.16	.19
838 00006	3/32	.34	.31	.78
838 00011	1/8	.34	.31	.71
838 00016	5/32	.44	.34	1.18
838 00021	3/16	.44	.34	1.06
838 00026	1/4	.69	.69	6.20
838 00031	5/16	.69	.69	5.30

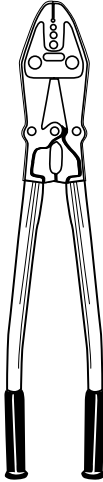


SWAGERS

- Use only for copper or aluminum sleeves and stops.
- Eye & Eye sleeve splicing is made sure and easy with Indusco hand swagers.
- Comes standard with cable cutter feature in swager head.



Single size type



Multiple size type
(Combo)

Indusco Part #	Cable Diameter	Swages Sleeves	Swages Stops	Weight Each
SINGLE SIZE TYPE				
859 00001	3/32	3/32	3/32, 1/8	4.2
859 00006	1/8	1/8	5/32, 3/16	4.2
859 00011	5/32	5/32	-	4.2
859 00016	3/16	3/16	-	4.2
859 00021	1/4	1/4	1/4, 5/16	6.0
859 00026	5/16	5/16	-	8.0
859 00028	3/8	3/8	-	13.0
MULTIPLE SIZE TYPE (COMBO)				
859 00031	HS-1	1/32, 3/64, 1/16	1/32, 3/64, 1/16	1.0
859 00036	HS-200	1/16, 3/32, 1/8	1/16, 3/32	3.0
859 00033	HS-600	1/16, 3/32, 1/8, 5/32, 3/16	1/16, 3/32, 1/8, 5/32, 3/16	6.5



HAND HELD CABLE CUTTERS

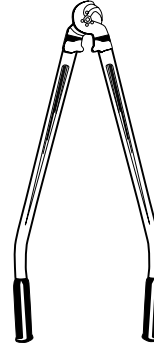
A cable when crushed or deformed in cutting is difficult to use with fittings. These cable cutters, with triangular jaws, will help reduce frayed ends.



LL-7
C-7



C-16

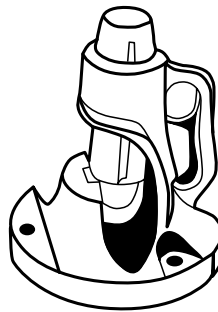


LL-28

Indusco Part #	Model	Cuts Wire	Type	Weight Each	Length of Handle
301 00016	LL-7	1/64 - 5/32	One Hand Shear	.6	5"
301 00026	C-7	1/64 - 3/16	One Hand Shear	.6	5"
301 00021	C-16	1/8 - 5/8	Two Hand Shear	5	21"
301 00031	LL-28	1/8 - 1/2	Two Hand Shear	5	24"

WIRE ROPE IMPACT CUTTERS

- Requires just a few quick blows with a heavy hammer or sledge.
- Firm base required for operation.



Indusco Part #	Model	Cuts Wire	Type	Weight Each
301 00008	#1	3/8 - 3/4	Impact	8
301 00006	#1A	1-1/16	Impact	16
301 00007	#2	1-1/2	Impact	29
Replacement blades & dies available				

MARLIN SPIKES

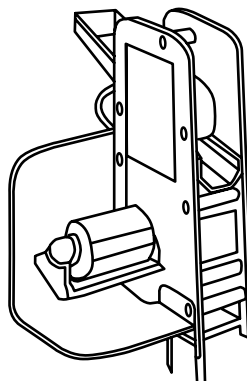
- Machined Steel



Indusco Part #	Size	Weight Each
799 00001	6"	.4
799 00006	8"	.8
799 00011	12"	.12
799 00016	16"	1.75
799 00021	20"	2.0
799 00026	24"	4.74
799 00031	30"	7.14

WIRE ROPE MEASURER

- Wire rope measures up to 1/2" diameter.
- Digital counter indicates feet and inches.
- Subtracts and resets to zero with one turn of the knob.

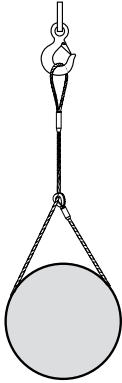


Indusco Part #
567 00196



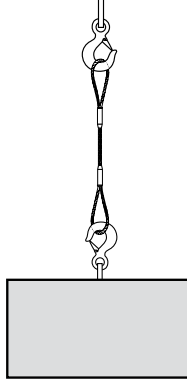
BASIC INFORMATION REQUIRED TO PROPERLY USE WIRE ROPE SLINGS

Every lift uses 1 of 3 basic hitches:



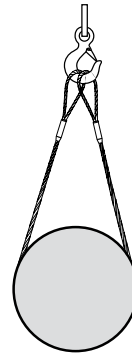
CHOKER HITCHES

Choker hitches reduce lifting capacity of a sling. This method of rigging affects the ability of the wire rope and components to adjust during the lift, places angular loading on the body of the sling body at the choke point.



VERTICAL OR STRAIGHT HITCHES

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



BASKET HITCHES

Basket hitches distribute a load equally between the two legs of a sling, within limitations imposed by the angles at which legs are rigged to the load. (See next page.)

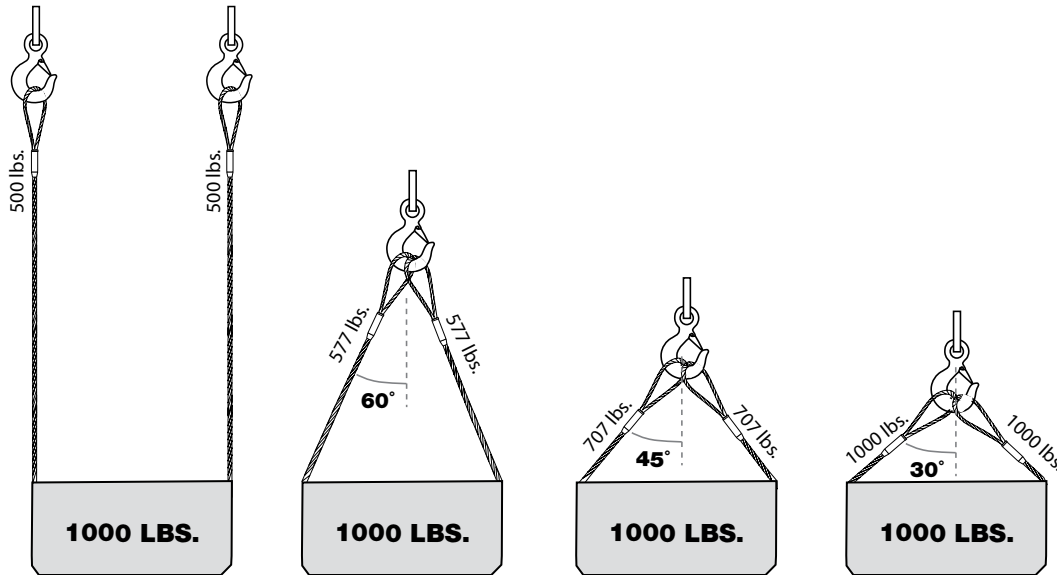
1. **RATED LOAD** (or rated capacity) of a wire rope sling is based upon the nominal strength (or catalog strength) of the wire rope used in the sling. There are several factors which affect the overall strength of the sling. These factors include attachment or splicing efficiency, the number of parts of rope in the sling, the type of hitch (e.g., straight pull, choker hitch, basket hitch), diameter around which the body of the sling is bent and the diameter of pin (or hook) over which the eye of the sling is rigged.
2. The rated load of a sling is different for each of the three basic methods of rigging (See graphic above). Rated loads are available from your wire rope sling supplier or fabricated (if requested by the user).
3. A hand-tucked eye splice can unlay (unravel) and fail if the sling is allowed to rotate during use.
4. **NEVER "SHOCK LOAD" A SLING.** There is no practical way to estimate the actual force applied by shock loading. The rated load of a wire rope sling can easily be exceeded by a sudden application of force and damage can occur to the sling. The sudden release of a load can also damage a sling.
5. The body of a wire rope sling should be protected with corner protectors, blocking or padding against damage by sharp edges or corners of the load being lifted. Sharp bends that distort the sling body damage the wire rope and reduce its strength.
6. **ANY ANGLE** other than vertical at which a sling is rigged, increases the loading on the sling.
7. A sling should be given a visual inspection before each lift to determine if it is capable of safely making the intended lift.

An inspection should include looking for such things as:
 - Broken wire
 - Kinks or distortions of the sling body
 - Condition of eyes and splices, and any attached hardware
 - Reduction in diameter of the rope
 - Any damage
 - Corrosion
8. Whenever a sling is found to be deficient, the eyes must be cut or other end attachments or fittings removed, to prevent further use, and the sling body discarded.
9. A sling eye should never be used over a hook or pin with a body diameter larger than the natural width of the eye. Never force an eye onto a hook. The eye should always be used on a hook or pin with at least the same diameter of the wire rope.



BASIC INFORMATION REQUIRED TO PROPERLY USE WIRE ROPE SLINGS

As the angle of the sling INCREASES, the lifting capacity DECREASES



SLING ANGLE (also called angle of loading) is the angle measured between a horizontal line and the sling leg or body. The angle has a dramatic effect on the rated load of the sling. As illustrated above, when this angle DECREASES, the LOAD ON EACH LEG INCREASES. This principle applies whether one sling is used with legs at an angle in a basket hitch or for multi-leg bridle slings. Horizontal sling angles of LESS THAN 30 DEGREES SHALL NOT BE USED.

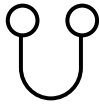


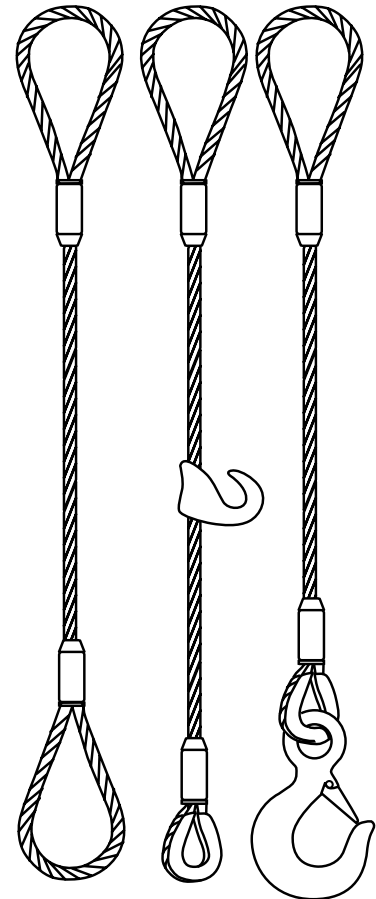
WIRE ROPE SLINGS

VERTICAL, CHOKER, VERTICAL BASKET

FLEMISH SPLICE IWRC

• Rated capacities shown below apply only to 6x19 and 6x36 classification wire rope.

Rope Diameter	Vertical		Choker		Vertical Basket	
						
	Rated capacity in tons of 2,000 lbs.					
	IPS	EIPS	IPS	EIPS	IPS	EIPS
1/4	0.56	0.65	0.41	0.48	1.1	1.3
5/16	0.87	1.0	0.64	0.74	1.7	2.0
3/8	1.2	1.4	0.92	1.1	2.4	2.8
7/16	1.7	1.9	1.2	1.4	3.4	3.8
1/2	2.2	2.5	1.6	1.9	4.4	5.0
9/16	2.8	3.2	2.0	2.4	5.5	6.4
5/8	3.4	3.9	2.5	2.9	6.8	7.8
3/4	4.9	5.6	3.6	4.1	9.7	11
7/8	6.6	7.6	4.8	5.6	13	15
1	8.5	9.8	6.3	7.2	17	19.6
1-1/8	10	12	7.9	9.1	20	24
1-1/4	13	15	10	11	26	30
1-3/8	15	18	12	13	30	36
1-1/2	18	21	14	16	36	42
1-3/4	25	28	19	21	50	56
2	32	37	24	28	64	74
2-1/4	39	44	30	35	78	88
2-1/2	47	54	37	42	94	108
2-3/4	57	65	44	51	114	130
3	67	77	52	60	134	154



RATED CAPACITIES BASKET HITCH BASED ON D/d* RATIO OF 25

RATED CAPACITIES BASED ON PIN DIAMETER NO LARGER THAN NATURAL EYE WIDTH OR LESS THAN THE NOMINAL SLING DIAMETER

RATED CAPACITIES BASED ON DESIGN FACTOR OF 5:1

HORIZONTAL SLING ANGLES LESS THAN 30 DEGREES SHALL NOT BE USED

*D/d= Diameter of Rope in relation to diameter of object to be lifted

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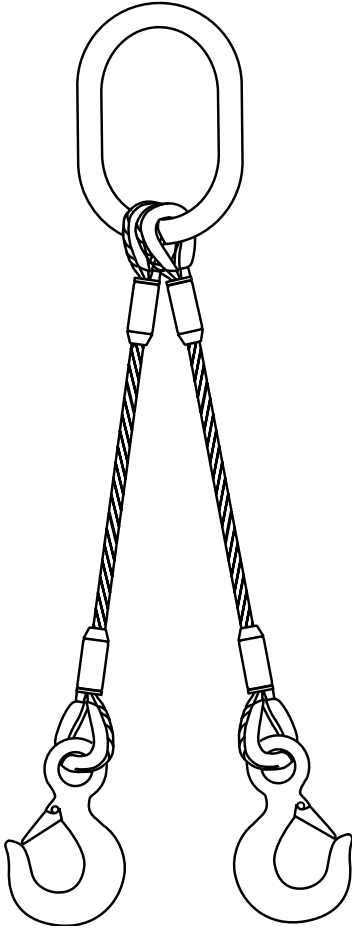


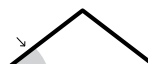
WIRE ROPE SLINGS

2 - LEG BRIDLE

FLEMISH SPLICE IWRC

• Rated capacities shown below apply only to 6x19 and 6x36 classification wire rope.



Rope Diameter	60°		45°		30°	
						
	Rated capacity in tons of 2,000 lbs.					
	IPS	EIPS	IPS	EIPS	IPS	EIPS
1/4	0.97	1.1	0.79	0.91	0.56	0.65
5/16	1.5	1.7	1.2	1.4	0.87	1.0
3/8	2.2	2.5	1.8	2.0	1.2	1.4
7/16	2.9	3.4	2.4	2.7	1.7	1.9
1/2	3.8	4.4	3.1	3.6	2.2	2.5
9/16	4.8	5.5	3.9	4.5	2.8	3.2
5/8	5.9	6.8	4.8	5.5	3.4	3.9
3/4	8.4	9.7	6.9	7.9	4.9	5.6
7/8	11	13	9.3	11	6.6	7.6
1	15	17	12	14	8.5	9.8
1-1/8	18	21	15	17	10	12
1-1/4	22	26	18	21	13	15
1-3/8	27	31	22	25	15	18
1-1/2	32	37	26	30	18	21
1-3/4	43	49	35	40	25	28
2	55	63	45	52	32	37
2-1/4	67	77	55	63	39	44
2-1/2	82	94	67	77	47	54
2-3/4	98	113	80	92	57	65
3	115	133	94	108	67	77

RATED CAPACITIES BASKET HITCH BASED ON *D/d RATIO OF 25

RATED CAPACITIES BASED ON PIN DIAMETER NO LARGER THAN NATURAL EYE WIDTH OR LESS THAN THE NOMINAL SLING DIAMETER

RATED CAPACITIES BASED ON DESIGN FACTOR OF 5:1

HORIZONTAL SLING ANGLES LESS THAN 30 DEGREES SHALL NOT BE USED

*D/d= Diameter of Rope in relation to diameter of object to be lifted

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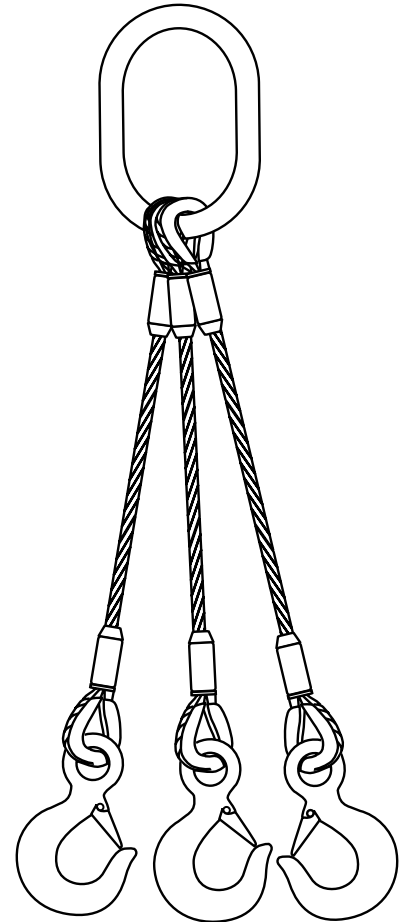
WIRE ROPE SLINGS

3 - LEG BRIDLE

FLEMISH SPLICE IWRC

• Rated capacity in tons of 2,000 lbs. Rated capacities shown apply only to 6x19 and 6x36 classification wire rope.

Rope Diameter	60° 		45° 		30° 	
	Rated capacity in tons of 2,000 lbs.					
	IPS	EIPS	IPS	EIPS	IPS	EIPS
1/4	1.5	1.7	1.2	1.4	0.84	0.97
5/16	2.3	2.6	1.8	2.1	1.3	1.5
3/8	3.2	3.7	2.6	3.0	1.9	2.2
7/16	4.4	5.0	3.6	4.1	2.5	2.9
1/2	5.7	6.6	4.6	5.4	3.3	3.8
9/16	7.2	8.3	5.8	6.8	4.1	4.8
5/8	8.8	10	7.2	8.3	5.1	5.9
3/4	13	15	10	12	7.3	8.4
7/8	17	20	14	16	9.9	11
1	22	26	18	21	13	15
1-1/8	27	31	22	26	16	18
1-1/4	33	38	27	31	19	22
1-3/8	40	46	33	38	23	27
1-1/2	48	55	39	45	27	32
1-3/4	64	74	52	60	37	42
2	83	95	68	78	48	55
2-1/4	101	116	82	94	58	67
2-1/2	123	141	100	115	71	82
2-3/4	147	169	120	138	85	97
3	173	199	141	162	100	115



RATED CAPACITIES BASKET HITCH BASED ON *D/d RATIO OF 25

RATED CAPACITIES BASED ON PIN DIAMETER NO LARGER THAN NATURAL EYE WIDTH OR LESS THAN THE NOMINAL SLING DIAMETER

RATED CAPACITIES BASED ON DESIGN FACTOR OF 5:1

HORIZONTAL SLING ANGLES LESS THAN 30 DEGREES SHALL NOT BE USED

*D/d= Diameter of Rope in relation to diameter of object to be lifted.

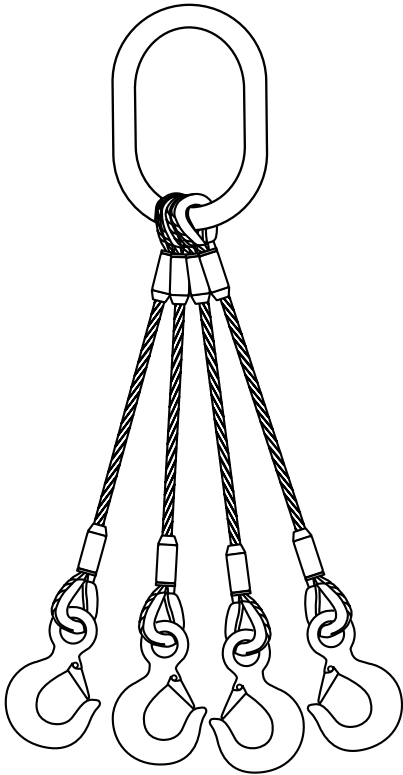
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WIRE ROPE SLINGS

4 - LEG BRIDLE

FLEMISH SPLICE IWRC

• Rated capacities shown below apply only to 6x19 and 6x36 classification wire rope.



Rope Diameter Inches	60° 		45° 		30° 	
	Rated capacity in tons of 2,000 lbs.					
	IPS	EIPS	IPS	EIPS	IPS	EIPS
1/4	1.9	2.2	1.6	1.8	1.1	1.3
5/16	3.0	3.5	2.5	2.8	1.7	2.0
3/8	4.3	5.0	3.5	4.1	2.5	2.9
7/16	5.9	6.7	4.8	5.5	3.4	3.9
1/2	7.6	8.8	6.2	7.1	4.4	5.1
9/16	9.5	11	7.8	9.0	5.5	6.4
5/8	12	14	9.6	11	6.8	7.8
3/4	17	19	14	16	9.7	11
7/8	23	26	19	21	13	15
1	30	34	24	28	17	20
1-1/8	36	42	30	34	21	24
1-1/4	44	51	36	42	26	30
1-3/8	54	62	44	50	31	36
1-1/2	63	73	52	60	37	42
1-3/4	85	98	70	80	49	57
2	110	127	90	104	64	73
2 1/4	134	154	109	126	77	89
2 1/2	163	188	133	154	94	109
2 3/4	196	225	160	184	113	130
3	231	265	188	216	133	153

RATED CAPACITIES BASKET HITCH BASED ON *D/d RATIO OF 25.

RATED CAPACITIES BASED ON PIN DIAMETER NO LARGER THAN NATURAL EYE WIDTH OR LESS THAN THE NOMINAL SLING DIAMETER.

RATED CAPACITIES BASED ON DESIGN FACTOR OF 5:1.

HORIZONTAL SLING ANGLES LESS THAN 30 DEGREES SHALL NOT BE USED.

*D/d= Diameter of Rope in relation to diameter of object to be lifted.



ABOUT CHAIN GRADING

Chain strength is determined by Working Load Limits (WLL) - the stronger the chain, the higher the Working Load Limit.

Grade 30 Proof Coil

A general purpose chain of standard commercial quality. Made from low carbon steel, this chain is frequently used for fabricating tow chains, logging chains and when appropriate, tie down or binding chains. Hallmarked every 3 feet or less on sizes over 5/16" with manufacturer's symbol and grade marking: 3, 30 or 300. **Warning: Not for overhead lifting.**



Grade 43 High Test

This is a higher strength chain used for years in the trucking industry for tie downs that meet DOT specifications. Made from a higher carbon steel, its strength surpasses proof coil working load limits, size for size, by a factor of 2 to 1. Hallmarked every 1 to 3 feet with manufacturer's symbol and grade marking: 4, 40, 43 or 400. **Warning: Not for overhead lifting.**



Grade 70 Transport

As its name implies Transport Chain is used primarily to tie down loads on over-the-road equipment. The yellow chromate (gold) plating makes it easily recognizable even from a distance. Made from heat treated carbon steel it has about 25% more strength than high test chains. Hallmarked every 1 to 3 feet with manufacturer's symbol and grade marking: 7, 70 or 700. **Warning: Not for overhead lifting.**



Grade 80 Alloy

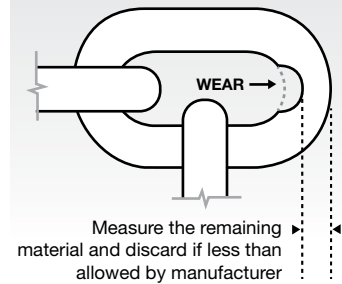
The first chain specifically designed for safety and approved by OSHA and other agencies for overhead lifting. Its alloy, heat-treated steel makes it ideal for making lifting slings and heavy duty tow chains. Hallmarked no more than 3 feet apart with manufacturer's symbol and grade marking: 8, 80 or 800. **Suitable for overhead lifting.**

Grade 100 Alloy

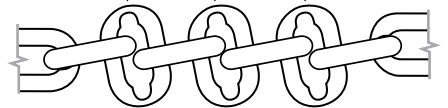
This new innovation in alloy chain metallurgy provides about 25% higher working load limits over Grade 80 chain with some limitations reported in lower ambient temperatures. Hallmarked no more than 3 feet apart with manufacturer's symbol and grade marking: 10 or 100. **Suitable for overhead lifting.**

Inspect chain regularly

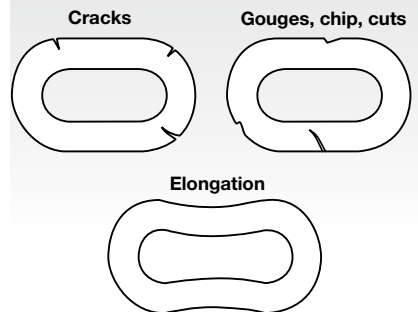
Inspect all links for wear at bearing surfaces



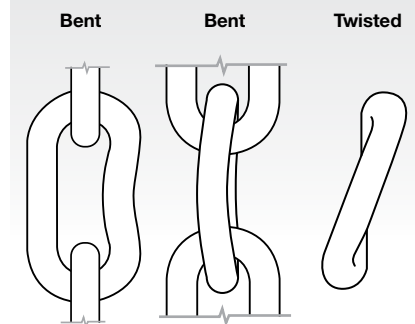
Extreme wear at bearing surfaces



Inspect all links for cracks, gouges, chips, cuts and elongation



Inspect all links for deformation

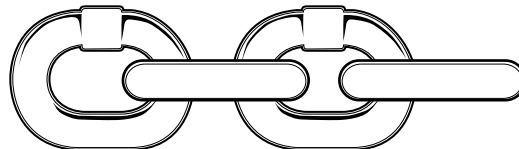




CHAIN - PROOF COIL GRADE 30

WARNING

- Not for overhead lifting!
- Available as self-colored, zinc plated and hot dipped galvanized.
- Meets design specifications of NACM.

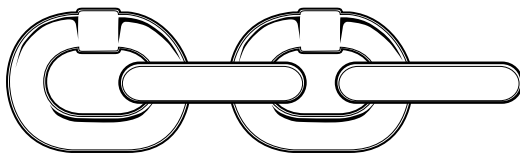
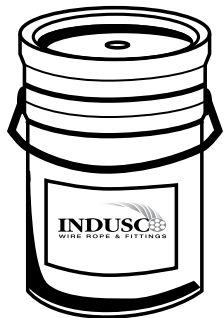


Indusco Part #	Size	Weight per Foot	Working Load Limit*	Feet per Full Drum
BULK - SOLD CUT TO LENGTH / DRUM				
SELF-COLORED				
231 00001	3/16	.40	800	1,500
231 00006	1/4	.71	1,300	800
231 00011	5/16	1.08	1,900	550
231 00016	3/8	1.56	2,650	400
231 00021	1/2	2.75	4,500	200
231 00026	5/8	4.10	6,900	150
231 00031	3/4	6.00	10,600	100
ZINC PLATED				
231 00211	3/16	.40	800	1,500
231 00216	1/4	.70	1,300	800
231 00221	5/16	1.08	1,900	550
231 00226	3/8	1.30	2,650	400
HOT DIPPED GALVANIZED				
231 00066	1/8	.20	400	1,000
231 00071	3/16	.40	800	1,500
231 00076	1/4	.71	1,300	800
231 00081	5/16	1.08	1,900	550
231 00086	3/8	1.56	2,650	400
231 00091	1/2	2.75	4,500	200
231 00096	5/8	4.10	6,900	150
231 00101	3/4	6.00	10,600	100
231 00106	7/8	7.80	12,800	80
231 00111	1	10.00	17,900	60

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

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CHAIN - PROOF COIL GRADE 30



⚠ WARNING

- **Not for overhead lifting!**
- Available as self-colored, zinc plated and hot dipped galvanized.
- Meets design specifications of NACM.

 PAIL PACK - APPROXIMATELY 100 LBS. PER PAIL			
SELF-COLORED			
Indusco Part #	Size	Feet per Pail	Working load limit*
 231 00036	3/16	250'	800
 231 00041	1/4	141'	1,300
 231 00046	5/16	92'	1,900
 231 00051	3/8	63'	2,650
 231 00056	1/2	35'	4,500
ZINC PLATED			
 231 00231	3/16	250'	800
 231 00236	1/4	141'	1,300
 231 00241	5/16	92'	1,900
 231 00246	3/8	63'	2,650
HOT DIPPED GALVANIZED			
 231 00116	3/16	250'	800
 231 00121	1/4	141'	1,300
 231 00126	5/16	92'	1,900
 231 00131	3/8	63'	2,650
 231 00136	1/2	35'	4,500

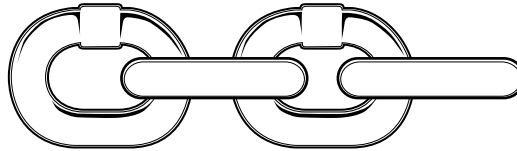
*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



CHAIN - HIGH TEST GRADE 40

WARNING

- Not for overhead lifting!
- Available as self-colored or hot dipped galvanized.
- Meets design specifications of NACM.



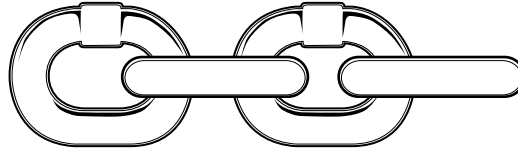
BULK - SOLD CUT TO LENGTH / DRUM				
Indusco Part #	Size	Weight per Foot	Working Load Limit*	Feet per Full Drum
SELF-COLORED				
231 00156	1/4	.69	2,600	800
231 00161	5/16	1.10	3,900	550
231 00166	3/8	1.54	5,400	400
231 00176	1/2	2.70	9,200	200
231 00181	5/8	4.18	13,000	150
231 00186	3/4	6.16	20,200	100
HOT DIPPED GALVANIZED				
231 00141	1/4	.69	2,600	800
231 00146	5/16	1.10	3,900	550
231 00151	3/8	1.54	5,400	400

 PAIL PACKS - APPROXIMATELY 100 LBS. PER PAIL				
	Size	Feet per Pail	Working Load Limit*	
 231 00191	1/4	141'	2,600	
 231 00196	5/16	92'	3,900	
 231 00201	3/8	63'	5,400	
 231 00206	1/2	35'	9,200	

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 3:1



CHAIN - GRADE 70



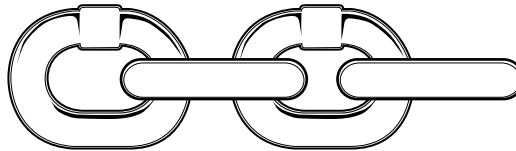
WARNING

- Not for overhead lifting!
- Yellow chromate finish.
- Meets design specifications of NACM.

Indusco Part #	Size	Weight per Foot	Working Load Limit*	Feet per Full Drum
BULK - SOLD CUT TO LENGTH / DRUM				
231 00251	1/4	.75	3,150	800
231 00256	5/16	1.10	4,700	550
231 00261	3/8	1.56	6,600	400
231 00266	1/2	2.64	11,300	200
PAIL PACK - APPROXIMATELY 100 LBS PER PAIL				
Indusco Part #	Size	Feet per Pail	Working Load Limit*	-
 231 00271	1/4	141'	3,150	-
 231 00276	5/16	92'	4,700	-
 231 00281	3/8	63'	6,600	-

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

CHAIN - STAINLESS STEEL TYPE 316



WARNING

- Not for overhead lifting!
- Meets design specifications of NACM.

BULK - SOLD CUT TO LENGTH / DRUM				
Indusco Part #	Size	Weight per Foot	Working Load Limit*	Feet per Full Drum
231 00326	1/8	.16	620	1,000
231 00331	3/16	.37	930	1,000
231 00336	1/4	.63	1,570	1,000
231 00341	5/16	.88	2,400	500
231 00346	3/8	1.42	3,550	400
231 00348	1/2	2.70	6,500	200

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

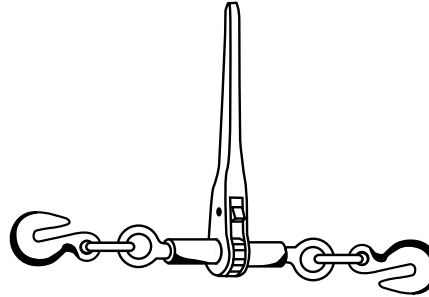
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RATCHET TYPE LOAD BINDERS

DROP FORGED

- All load bearing or holding parts are drop forged.
- Easy operating positive ratchet.



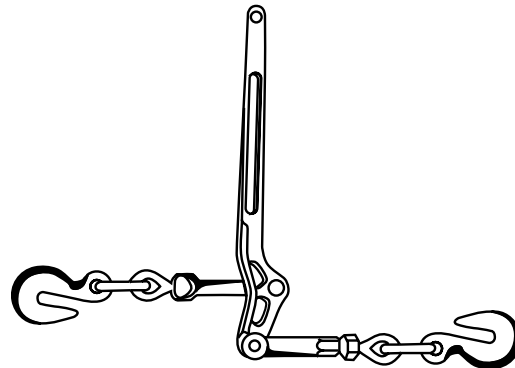
Indusco Part #	Min-Max Chain Size	Chain G-43	Chain G-70	Take up	Handle Length	Weight Each	Working Load Limit*
161 00001	1/4	1/4	-	6"	9"	3.5	2,200
161 00006	5/16 - 3/8	3/8	5/16	8"	15.5"	11.0	6,600
161 00016	3/8 - 1/2	1/2	3/8	8"	15.5"	13.0	9,200
161 00053	1/2 - 5/8	5/8	1/2	8"	15"	15.0	13,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 3:1

LEVER TYPE LOAD BINDERS

DROP FORGED

- Ball and socket joints at hook assemblies permit a straight line pull.



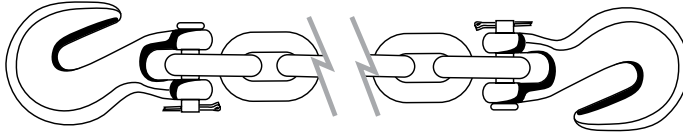
Indusco Part #	Min-Max Chain Size	Chain G-43	Chain G-70	Take up	Handle Length	Weight Each	Working Load Limit*
161 00031	1/4	1/4	-	3"	11"	3.0	2,600
161 00036	5/16 - 3/8	3/8	5/16	4.5"	15.5"	8.0	5,400
161 00041	3/8 - 1/2	1/2	3/8	4.5"	17.6"	11.5	9,200
161 00046	1/2 - 5/8	5/8	1/2	4.5"	21"	18.0	13,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 3:1



TIE DOWN CHAINS

- Custom cut and assembled lengths with grab or slip hooks available upon request.



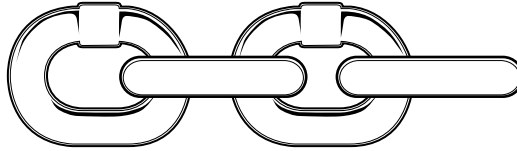
HIGH TEST GRADE 40				
High strength steel chain with grab hooks each end				
Indusco Part #	Trade Size	Type Hooks	Weight	Working Load Limit*
231 00371	3/8" x 16'	Grab	28	5,400
231 00376	3/8" x 20'	Grab	29	5,400
TRANSPORT GRADE 70				
Yellow Chromate heat treated steel chain with grab hooks each end				
231 00381	5/16" x 20'	Grab	23	4,700
231 00382	5/16" x 25'	Grab	30	4,700
231 00386	3/8" x 16'	Grab	28	6,600
231 00391	3/8" x 20'	Grab	30	6,600

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



CHAIN - GRADE 80 ALLOY CHAIN

- Self colored or black lacquer finish.
- Meets design specifications of NACM.

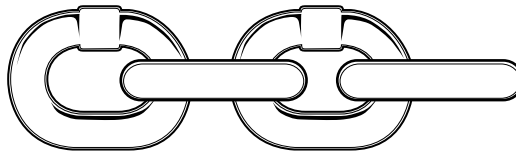


BULK - SOLD CUT TO LENGTH / DRUM				
Indusco Part #	Size	Weight per Foot	Working Load Limit*	Feet per Full Drum
231 00286	1/4 (9/32)	.70	3,500	800
231 00291	5/16	.94	4,500	550
231 00296	3/8	1.51	7,100	400
231 00301	1/2	2.56	12,000	200
231 00606	5/8	3.90	18,100	150
231 00645	3/4	5.84	28,300	100
231 00616	7/8	7.12	34,200	100
231 00321	1	10.00	47,700	100
231 00626	1-1/4	15.00	72,300	60

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

CHAIN - GRADE 100 ALLOY CHAIN

- Self colored or black lacquer finish.
- Meets design specifications of NACM.



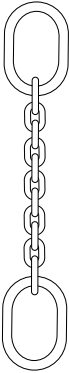
BULK - SOLD CUT TO LENGTH / DRUM				
Indusco Part #	Size	Weight per Foot	Working Load Limit*	Feet per Full Drum
231 00630	1/4	.75	4,300	500
231 00636	3/8	1.56	8,800	500
231 00639	1/2	2.60	15,000	300
231 00642	5/8	3.90	22,600	200

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

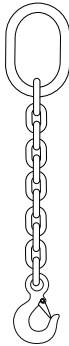
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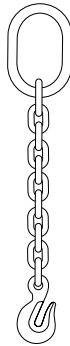
TYPES OF CHAIN SLINGS AND NOMENCLATURE



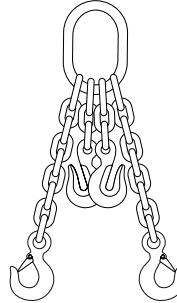
SOO
Single chain sling
with master link
each end



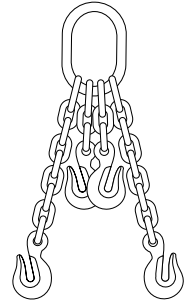
SOS
Single chain sling
with master link and
sling hook



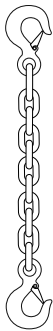
SOG
Single chain sling
with master link
and grab hook



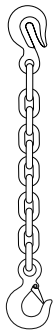
ADOS
Adjustable double chain
sling with master link
and sling hooks



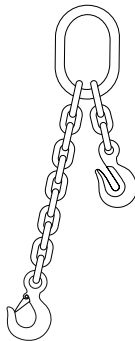
ADOG
Adjustable double
chain sling with master
link and grab hooks



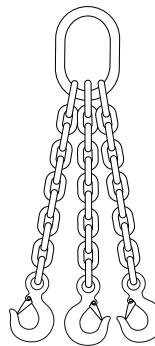
SSS
Single chain sling
with sling hook each
end



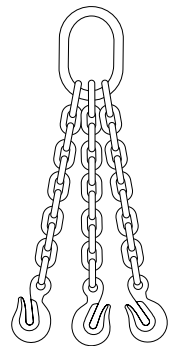
SGS
Single chain sling
with sling hook and
grab hook



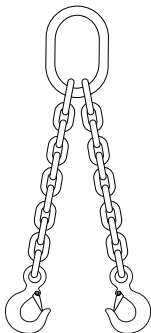
ASOS
Adjustable single
chain sling with
master link and
sling hook



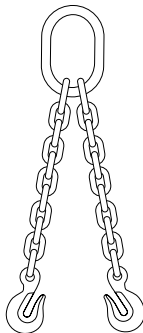
TOS
Triple chain sling with
master link and sling
hooks



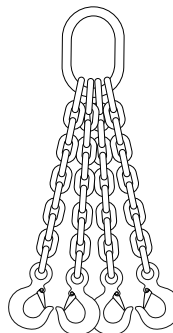
TOG
Triple chain sling with
master link and grab
hooks



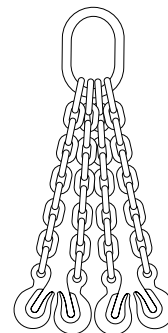
DOS
Double chain sling with
master link and sling
hooks



DOG
Double chain sling
with master link and
grab hooks



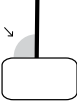
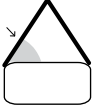
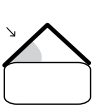
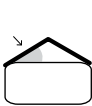
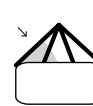
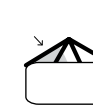
QOS
Quadruple chain sling
with master link and
sling hooks



QOG
Quadruple chain sling
with master link and
grab hooks

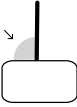
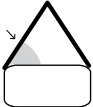
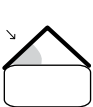
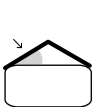
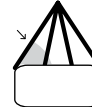
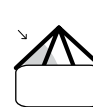
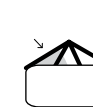


GRADE 80 CHAIN SLING WORKING LOAD LIMITS

Grade 80 Alloy Chain Size		90° 	60° 	45° 	30° 	60° 	45° 	30° 
Inches	MM	Single Leg	Double Leg			Triple & Quad Leg		
7/32	6	2,500	3,600	3,000	2,500	6,500	5,300	3,750
1/4 (9/32)	7	3,500	6,100	4,900	3,500	9,100	7,400	5,200
5/16	8	4,500	7,800	6,400	4,500	11,700	9,500	6,800
3/8	10	7,100	12,300	10,000	7,100	18,400	15,100	10,600
1/2	13	12,000	20,800	17,000	12,000	31,200	25,500	18,000
5/8	16	18,100	31,300	25,600	18,100	47,000	38,400	27,100
3/4	20	28,300	49,000	40,000	28,300	73,500	60,000	42,400
7/8	22	34,200	59,200	48,400	34,200	88,900	72,500	52,300
1	26	47,700	82,600	67,400	47,700	123,900	101,200	71,500
1-1/4	32	72,300	125,200	102,200	72,300	187,800	153,400	108,400

RATED CAPACITY BASED ON DESIGN FACTOR 4:1

GRADE 100 CHAIN SLING WORKING LOAD LIMITS

Grade 100 Alloy Chain Size		90° 	60° 	45° 	30° 	60° 	45° 	30° 
Inches	MM	Single Leg	Double Leg			Triple & Quad Leg		
-	6	3,200	5,500	4,500	3,200	8,300	6,800	4,800
1/4 (9/32)	7	4,300	7,400	6,100	4,300	11,200	9,100	6,400
5/16	8	5,700	9,900	8,100	5,700	14,800	12,100	8,500
3/8	10	8,800	15,200	12,400	8,800	22,900	18,700	13,200
1/2	13	15,000	26,000	21,200	15,000	39,000	31,800	22,500
5/8	16	22,600	39,100	32,000	22,600	58,700	47,900	33,900
3/4	20	35,300	61,100	49,900	35,300	91,700	74,900	52,950
7/8	22	42,700	74,000	60,400	42,700	110,900	90,600	64,000
1	26	59,700	103,400	84,400	59,700	155,100	126,000	89,550
1-1/4	32	90,400	156,600	127,800	90,400	234,900	191,700	135,600

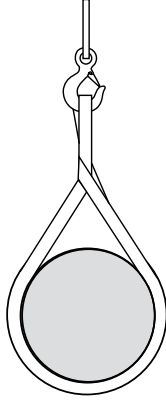
RATED CAPACITY BASED ON DESIGN FACTOR 4:1

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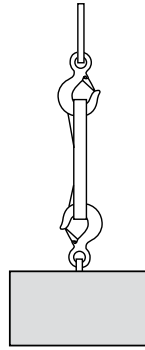
BASIC INFORMATION ABOUT SYNTHETIC SLINGS

Rated Capacity: The rated capacities of the synthetic slings in this catalog are given in pounds. Refer to the maximum recommended weight for which the sling is to be used in one of the standard types of lifts as illustrated:



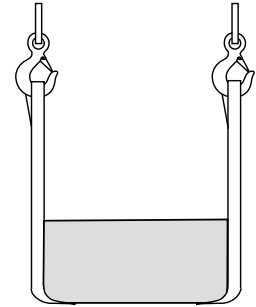
CHOKER HITCHES

Choker hitches reduce lifting capacity of a sling. This method of rigging places angular loading the sling at the choke point.



VERTICAL OR STRAIGHT HITCHES

A vertical or straight hitch is simply using a sling to connect a lifting hook or other device to a load. Full rated load of the sling may be used, but never exceeded.



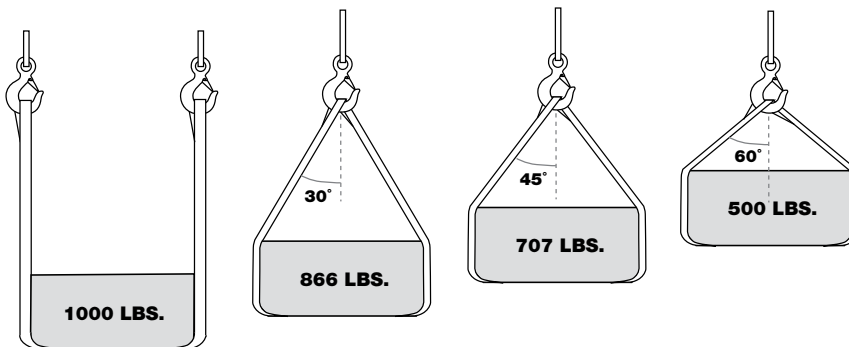
BASKET HITCHES

Basket hitches distribute a load equally between the two legs of a sling, within limitations imposed by the angles at which legs are rigged to the load. (See chart below.)

EFFECT OF LIFTING ANGLE

As the angle of the sling INCREASES, the lifting capacity DECREASES.

When slings are used at an angle (i.e. – two slings or one sling in a basket attached to only one crane hook), sling capacity is reduced. How much it is reduced depends on the degree of the angle. You can determine whether a sling will be rated high enough if you know the angle between the sling leg and the vertical. Once you know this angle, multiply the sling's rating by the appropriate factor in the table. This will give you the sling's reduced rating.



Angle Degrees	Factor
0	1.0000
5	0.9962
10	0.9848
15	0.9659
20	0.9397
25	0.9063
30	0.8660
35	0.8192
40	0.7660
45	0.7071
50	0.6428
55	0.5736
60	0.5000
65	0.4226
70	0.3420
75	0.2588

A sling capable of lifting 1,000 lbs. in a 0° vertical basket hitch, can only lift 866 lbs. at a 30° angle, 707 lbs. at a 45° angle and 500 lbs. at a 60° angle.



SYNTHETIC SLINGS - ONE PLY

- Cordura wear pads/eyes available.
- Other widths available up to 12".



Flat eye



Twisted eye

Size	Indusco Part # Flat Eye	Indusco Part # Twisted Eye	Vertical Working Load Limit*	Choker Working Load Limit*	Basket Working Load Limit*
1" x 4'	778 60011	778 60891	1,600	1,250	3,200
1" x 6'	778 60031	778 60911	1,600	1,250	3,200
1" x 8'	778 60041	778 60921	1,600	1,250	3,200
1" x 10'	778 60051	778 60931	1,600	1,250	3,200
1" x 12'	778 60061	778 60941	1,600	1,250	3,200
1" x 15'	778 60081	778 60961	1,600	1,250	3,200
1" x 16'	778 60091	778 60971	1,600	1,250	3,200
1" x 20'	778 60111	778 60991	1,600	1,250	3,200
2" x 4'	778 60171	778 61051	3,200	2,500	6,400
2" x 6'	778 60191	778 61071	3,200	2,500	6,400
2" x 8'	778 60201	778 61081	3,200	2,500	6,400
2" x 10'	778 60211	778 61091	3,200	2,500	6,400
2" x 12'	778 60221	778 61101	3,200	2,500	6,400
2" x 15'	778 60241	778 61121	3,200	2,500	6,400
2" x 16'	778 60251	778 61131	3,200	2,500	6,400
2" x 20'	778 60271	778 61151	3,200	2,500	6,400
3" x 4'	778 60331	778 61211	4,800	3,800	9,600
3" x 6'	778 60351	778 61231	4,800	3,800	9,600
3" x 8'	778 60361	778 61241	4,800	3,800	9,600
3" x 10'	778 60371	778 61251	4,800	3,800	9,600
3" x 12'	778 60381	778 61261	4,800	3,800	9,600
3" x 15'	778 60401	778 61281	4,800	3,800	9,600
3" x 16'	778 60411	778 61291	4,800	3,800	9,600
3" x 20'	778 60431	778 61311	4,800	3,800	9,600
4" x 4'	778 60491	778 61371	6,400	5,000	12,800
4" x 6'	778 60511	778 61391	6,400	5,000	12,800
4" x 8'	778 60521	778 61401	6,400	5,000	12,800
4" x 10'	778 60531	778 61411	6,400	5,000	12,800
4" x 12'	778 60541	778 61421	6,400	5,000	12,800
4" x 15'	778 60561	778 61441	6,400	5,000	12,800
4" x 16'	778 60571	778 61451	6,400	5,000	12,800
4" x 20'	778 60591	778 61471	6,400	5,000	12,800

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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SYNTHETIC SLINGS - TWO PLY



Flat eye



Twisted eye

- Cordura wear pads/eyes available.
- Other widths available up to 12".

Size	Indusco Part # Flat Eye	Indusco Part # Twisted Eye	Vertical Working Load Limit*	Choker Working Load Limit*	Basket Working Load Limit*
1" X 4'	778 65491	778 66166	3,200	2,500	6,400
1" X 6'	778 65511	778 66168	3,200	2,500	6,400
1" X 8'	778 65521	778 66171	3,200	2,500	6,400
1" X 10'	778 65531	778 66181	3,200	2,500	6,400
1" X 12'	778 65541	778 66191	3,200	2,500	6,400
1" X 15'	778 65561	778 66211	3,200	2,500	6,400
1" X 16'	778 65571	778 66221	3,200	2,500	6,400
1" X 20'	778 65591	778 66241	3,200	2,500	6,400
2" X 4'	778 65651	778 66297	6,400	5,000	12,800
2" X 6'	778 65671	778 66302	6,400	5,000	12,800
2" X 8'	778 65681	778 66312	6,400	5,000	12,800
2" X 10'	778 65691	778 66322	6,400	5,000	12,800
2" X 12'	778 65701	778 66332	6,400	5,000	12,800
2" X 15'	778 65721	778 66352	6,400	5,000	12,800
2" X 16'	778 65731	778 66362	6,400	5,000	12,800
2" X 20'	778 65751	778 66382	6,400	5,000	12,800
3" X 4'	778 65811	778 66438	9,300	7,440	18,600
3" x 6'	778 65831	778 66441	9,300	7,440	18,600
3" x 8'	778 65841	778 66451	9,300	7,440	18,600
3" x 10'	778 65851	778 66461	9,300	7,440	18,600
3" x 12'	778 65861	778 66471	9,300	7,440	18,600
3" x 15'	778 65882	778 66491	9,300	7,440	18,600
3" x 16'	778 65891	778 66501	9,300	7,440	18,600
3" x 20'	778 65911	778 66521	9,300	7,440	18,600
4" x 4'	778 65966	778 66578	11,500	9,200	23,000
4" x 6'	778 65971	778 66581	11,500	9,200	23,000
4" x 8'	778 65989	778 66591	11,500	9,200	23,000
4"x 10'	778 65999	778 66602	11,500	9,200	23,000
4" x 12'	778 66008	778 66612	11,500	9,200	23,000
4" x 15'	778 66021	778 66632	11,500	9,200	23,000
4" x 16'	778 66031	778 66641	11,500	9,200	23,000
4" x 20'	778 66049	778 66662	11,500	9,200	23,000

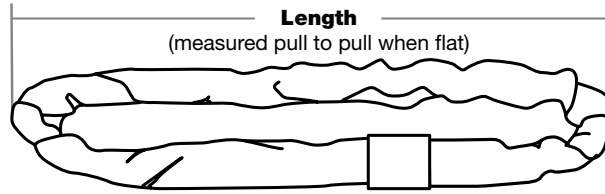
*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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SYNTHETIC SLINGS - ROUND

- Color ratings apply.
- Available lengths up to 20'.
- Custom orders are available upon request.



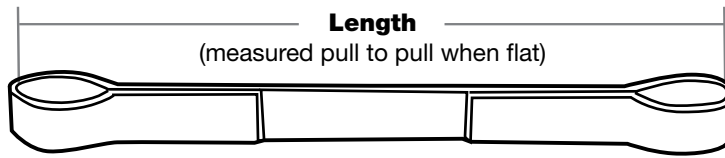
Indusco Part #	Const.	Vertical Working Load Limit*	Choker Working Load Limit*	Basket Working Load Limit*
GREEN				
778 00040	2 x 4	5,300	4,200	10,600
778 00041	2 x 6	5,300	4,200	10,600
778 00043	2 x 8	5,300	4,200	10,600
778 00045	2 x 10	5,300	4,200	10,600
778 00046	2 x 12	5,300	4,200	10,600
TAN				
778 00121	4 x 12	10,600	8,500	21,200
RED				
778 00018	5 x 4	13,200	10,600	26,400
778 00020	5 x 6	13,200	10,600	26,400
778 00022	5 x 8	13,200	10,600	26,400
778 00026	5 x 12	13,200	10,600	26,400
778 00030	5 x 15	13,200	10,600	26,400
778 00035	5 x 20	13,200	10,600	26,400
WHITE				
778 00093	6 x 12	16,800	13,400	33,600
778 00102	6 x 20	16,800	13,400	33,600
BLUE				
778 00067	7 x 8	21,200	17,000	42,400
778 00071	7 x 12	21,200	17,000	42,400
778 00075	7 x 15	21,200	17,000	42,400
778 00080	7 x 20	21,200	17,000	42,400
ORANGE				
778 00146	9 x 20	31,000	24,800	62,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



SYNTHETIC SLINGS - PLAIN EYE AND EYE

• Available in 1, 2, 3 and 4 ply.

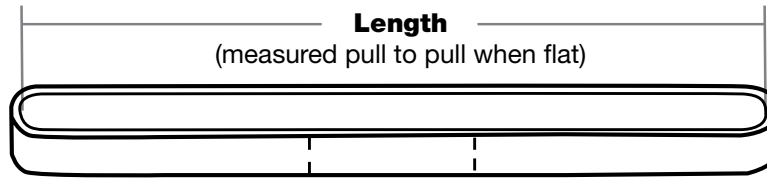


Sling Code	Vertical Working Load Limit*	Choker Working Load Limit*	Basket Working Load Limit*
EE1-801	1,600	1,250	3,200
EE2-801	3,200	2,500	6,400
EE3-801	4,100	3,300	8,200
EE4-801	6,200	4,960	12,400
EE1-802	3,200	2,500	6,400
EE2-802	6,400	5,000	12,800
EE3-802	8,300	6,600	16,600
EE4-802	12,400	9,920	24,800
EE1-803	4,800	3,800	9,600
EE2-803	9,300	7,440	18,600
EE3-803	12,500	10,000	25,000
EE4-803	18,600	14,880	37,200
EE1-804	6,400	5,000	12,800
EE2-804	11,500	9,200	23,000
EE3-804	16,000	12,800	32,000
EE4-804	22,000	17,600	44,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



SYNTHETIC SLINGS - ENDLESS



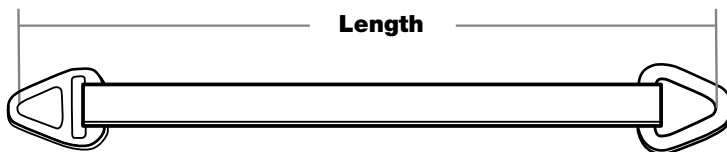
Sling Code	Vertical Working Load Limit*	Choker Working Load Limit*	Basket Working Load Limit*
EN1-801	3,200	2,560	6,400
EN2-801	6,400	5,000	12,800
EN3-801	9,300	7,440	18,600
EN1-802	6,400	5,000	12,800
EN2-802	12,400	9,920	24,800
EN3-802	18,600	14,880	37,200
EN1-803	9,300	7,440	18,600
EN2-803	18,600	14,880	37,200
EN3-803	27,900	22,320	55,800
EN1-804	12,400	9,920	24,800
EN2-804	22,000	17,600	44,000
EN3-804	34,400	27,520	68,800
EN1-806	18,600	14,880	37,200
EN2-806	33,000	26,400	66,000
EN3-806	51,600	41,280	103,200
EN4-806	57,600	46,080	115,200
EN1-808	19,200	15,360	38,400
EN2-808	30,700	24,580	61,400
EN3-808	46,000	36,800	92,000
EN4-808	57,600	46,080	115,200
EN1-812	26,900	21,520	53,800
EN2-812	37,600	30,080	75,200
EN3-812	59,200	47,360	118,400
EN4-812	80,700	64,560	161,400

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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SYNTHETIC SLINGS - TRIANGLE AND CHOKER



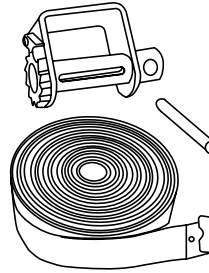
TRIANGLE - CHOKER SLING			
Sling Code	Vertical Working Load Limit*	Choker Working Load Limit*	Basket Working Load Limit*
TC1-802	3,100	2,480	6,200
TC2-802	6,200	4,960	12,400
TC1-803	4,650	3,720	9,300
TC2-803	9,300	7,440	18,600
TC1-804	6,200	4,960	12,400
TC2-804	11,000	8,800	22,000
TC1-806	9,300	7,440	18,600
TC2-806	16,500	13,200	33,000
TC1-808	12,400	9,920	24,800
TC2-808	22,000	17,600	44,000
TRIANGLE - TRIANGLE SLING			
TT1-802	3,100	-	6,200
TT2-802	6,200	-	12,400
TT1-803	4,650	-	9,300
TT2-803	9,300	-	18,600
TT1-804	6,200	-	12,400
TT2-804	11,000	-	22,000
TT1-806	9,300	-	18,600
TT2-806	16,500	-	33,000
TT1-808	12,400	-	24,800
TT2-808	22,000	-	44,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



RATCHET TIE DOWNS

- **NEVER USE FOR LIFTING OR HOISTING.**
- Secure loads of any height, shape and strength easier and faster.
- The tough polyester straps are lightweight and easy to throw over any load.
- Easy to store and handle, rolls into a small unit.

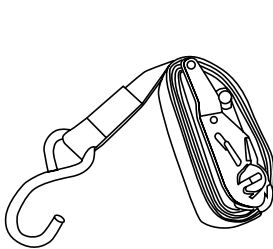


! WARNING

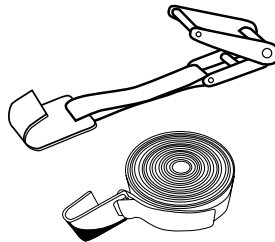
- Failure to comply with warning may result in tie down failure, serious personal injury or death. Use of this product demonstrates an understanding of this Warning and the risk involved.
- Never exceed working load limit.
- Inspect before each use.
- Webbing should not be used if abrasions, cuts, tears, burns, knots, damaged sew patterns or alterations are present.
- Always protect webbing from sharp or abrasive surfaces.
- Hardware must be pulled in a straight line or strength will be reduced. Do not use if any signs of damage, deformation, or alterations are present.
- This tie down assembly is not to be used for lifting or towing.
- Refer to Federal, State, Provincial Industry or Local regulations for proper tie down methods.
- Read and understand these these instructions before use.

Indusco Part #	Description	Working Load Limit*	Minimum Break Strength	Weight Each
903 00021	1" x 16' with S Hooks	400	1,200	1.6
903 00046	2" x 27' with Flat Hooks	3,335	10,000	5.4
903 00048	2" x 27' with Finger Hooks	3,335	10,000	5.1
903 00131	2" x 27' with Chain and Grab Hooks	3,335	10,000	8.4
903 00049	3" x 27' with Flat Hooks	4,300	13,000	11.7
903 00050	4" x 27' with Flat Hooks	5,000	15,000	14.7

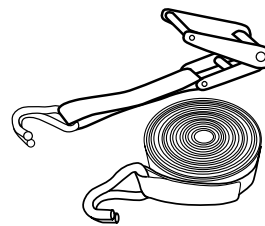
*RATED CAPACITY IS BASED ON A DESIGN FACTOR OF 3:1



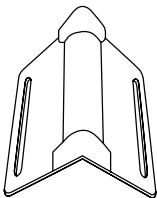
With S Hooks



With Flat Hooks



With Finger Hooks



Indusco Part #	Description
662 00001	Plastic Corner Protector, 2" to 4" Webbing



RUBBER STRAPS

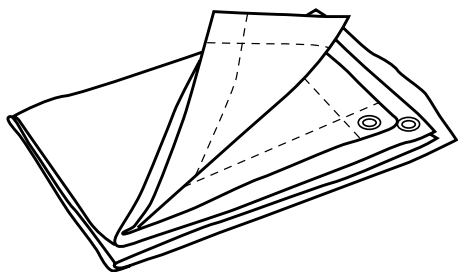


⚠ WARNING

- **NEVER USE FOR LIFTING.**
- 2-1/2" S Hooks.
- Save time, hooks on or off quickly.
- Rubber hold-down straps stretch to hook on in seconds.
- Faster and easier than tying ropes which untie or swell when wet.

Indusco Part #	Size	Max. Range
903 00016	9" w/ 2 S Hooks	17"
903 00031	15" w/ 2 S Hooks	24"
903 00036	21" w/ 2 S Hooks	30"
903 00041	31" w/ 2 S Hooks	40"
DISCARD ANY STRAPS THAT SHOW SIGNS OF CRACKS, TEARS OR SPLITS		

TARPS



Canvas Tarps

Available in the stock sizes listed below:

- Top quality canvas duck, water and mildew resistant
- Hemmed all around with eyelets every 3 - 4"
- 10 ounce / 14 ounce / 18 ounce
- Stock sizes shown below are 10 ounce
- Truck hauling sizes

Blue Polyethylene Tarps

Available in the stock sizes listed below:

- Lightweight with rust proof grommets
- Reinforced corners / nylon reinforced
- Tear resistant / waterproof / shrink and rot proof

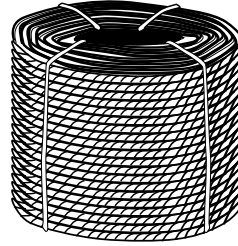
Stock Sizes:		
6' x 8'	12' x 16'	20' x 25'
8' x 10'	12' x 20'	20' x 30'
10' x 12'	15' x 20'	20' x 40'
12' x 12'	20' x 20'	30' x 40'



CORDAGE - THREE STRAND

WARNING

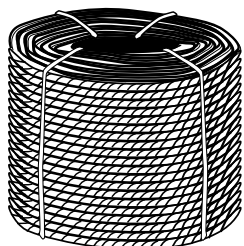
- Never exceed the working load limit of rope.
- Attachments must have at least same working load limit as the rope used.
- Keep out from under a raised load.
- Destroy, rather than discard, rope to be retired.
- Inspect rope frequently; store properly.
- Avoid overheating, shock loads, chemicals, rust and abrasion.
- Always destroy any product that shows wear, tearing or knots!



SIZE		MANILA		POLYPRO		NYLON		COMBO		WORKING LOAD LIMIT RATIO *
DIAMETER	CIR.	MIN. TENSILE STRENGTH	LBS. PER 600 FT.	MIN. TENSILE STRENGTH	LBS. PER 600 FT.	MIN. TENSILE STRENGTH	LBS. PER 600 FT.	MIN. TENSILE STRENGTH	LBS. PER 600 FT.	
3/16	5/8	405	9	650	4	880	6	-	-	10.1
1/4	3/4	540	12	1,125	7	1,468	9	1,200	10	10.1
5/16	1	900	17	1,710	11	2,295	15	1,870	15	10.1
3/8	1-1/8	1,215	25	2,430	17	3,240	21	2,700	22	10.1
7/16	1-1/4	1,575	32	3,150	23	4,320	30	3,500	28.8	10.1
1/2	1-1/2	2,385	45	3,780	28	5,670	39	4,400	39	9.1
9/16	1-3/4	3,105	62	4,590	37	7,200	50	5,200	46	8.1
5/8	2	3,960	80	5,580	45	8,910	63	6,100	55	8.1
3/4	2-1/4	4,860	100	7,650	64	12,780	87	8,400	75	7.1
13/16	2-1/2	5,850	117	9,900	76	17,000	102	11,200	88	7.1
7/8	2-3/4	6,930	135	10,350	90	17,280	120	11,125	105	7.1
1	3	8,100	162	12,825	108	22,230	156	13,175	131	7.1
1-1/16	3-1/4	9,450	187	14,400	122	25,200	174	14,775	147	7.1
1-1/8	3-1/2	10,800	216	16,000	143	28,260	204	16,325	165	7.1
1-1/4	3-3/4	12,150	251	19,350	162	34,830	240	19,900	198	7.1
1-5/16	4	13,500	287	21,150	182	38,250	270	21,950	222	7.1
1-1/2	4-1/2	16,650	360	27,350	231	48,600	330	28,250	276	7.1
1-5/8	5	20,250	447	31,950	286	57,375	399	32,950	336	7.1
1-3/4	5-1/2	23,850	537	36,900	342	66,150	498	36,850	408	7.1
2	6	27,900	648	46,800	414	84,600	570	48,050	468	7.1
2-1/8	6-1/2	-	-	52,650	480	95,400	654	53,950	582	7.1
2-1/4	7	-	-	59,400	552	107,100	774	59,950	648	6.1
2-1/2	7-1/2	-	-	72,000	642	131,400	894	73,550	732	6.1

* FOR EXAMPLE: 10:1 MEANS THAT CORDAGE WITH A TENSILE STRENGTH OF 1,000 LBS HAS A MAXIMUM WORKING LOAD OF 100 LBS THIS APPLIES ONLY WHEN CORDAGE IS NEW.

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⚠ WARNING

- Never exceed the working load limit of rope.
- Attachments must have at least same working load limit as the rope used.
- Keep out from under a raised load.
- Destroy, rather than discard, rope to be retired.
- Inspect rope frequently; store properly.
- Avoid overheating, shock loads, chemicals, rust and abrasion.
- Always destroy any product that shows wear, tearing or knots!

MANILA ROPE

- 3 STRAND POLY WRAPPED COILS.
- Block and tackle assemblies available in manila or nylon rope.

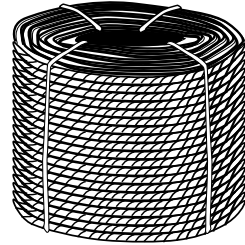
Indusco Part #	Size	Length	Approx. Weight per Coil	Working Load Limit
721 00051	1/4	600	12	108
721 00056	1/4	1250	25	108
721 00061	1/4	2500	50	108
721 00066	5/16	185	25	180
721 99999	5/16	1750	50	180
721 00076	3/8	100	4	243
721 00081	3/8	200	8	243
721 00086	3/8	300	12	243
721 00091	3/8	600	25	243
721 00096	3/8	1200	80	243
721 00101	1/2	100	8	477
721 00106	1/2	200	15	477
721 00111	1/2	300	23	477
721 00116	1/2	600	45	477
721 00121	1/2	1200	90	477
721 00126	5/8	100	13	792
721 00131	5/8	200	27	792
721 00136	5/8	300	40	792
721 00141	5/8	600	80	792
721 00146	5/8	1200	160	792
721 00151	3/4	100	17	992
721 00156	3/4	200	34	992
721 00161	3/4	300	51	992
721 00166	3/4	600	100	992
721 00171	3/4	1200	200	992
721 00176	7/8	600	135	1386
721 00186	1	100	27	1620
721 00191	1	200	54	1620
721 00196	1	300	81	1620
721 00201	1	600	162	1620
721 00206	1	1200	324	1620
721 00216	1-1/4	600	251	2430
721 00221	1-1/2	600	360	3330
721 00226	2	200	216	5580
721 00231	2	600	648	5580



SYNTHETIC ROPE - THREE STRAND

WARNING

- Never exceed the working load limit of rope.
- Attachments must have at least same working load limit as the rope used.
- Keep out from under a raised load.
- Destroy, rather than discard, rope to be retired.
- Inspect rope frequently; store properly.
- Avoid overheating, shock loads, chemicals, rust and abrasion.
- Always destroy any product that shows wear, tearing or knots!

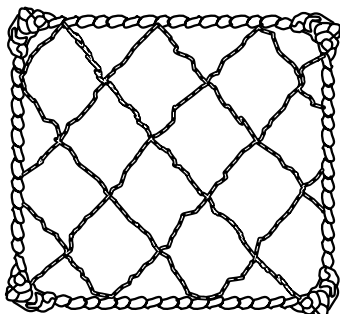


POLYPROPYLENE - YELLOW				
Indusco Part #	Size	Ft./Reel or Coil	Working Load Limit	Weight per 600'
721 00251	1/4	600/RL	110	6.5
721 00261	5/16	600/RL	170	11
721 00286	3/8	600/RL	240	17.5
721 00306	1/2	600/RL	420	28
721 00321	5/8	600/RL	695	45
721 00331	3/4	600/RL	1,090	64
721 00341	7/8	600/COIL	1,475	90
721 00346	1	600/COIL	1,830	107
NYLON - WHITE				
Indusco Part #	Size	Ft./Reel or Coil	Working Load Limit	Weight per 600'
721 00436	1/4	600/RL	145	9
721 00446	5/16	600/RL	230	15
721 00461	3/8	600/RL	320	21
721 00481	1/2	600/RL	630	39
721 00491	5/8	600/RL	1,110	63
721 00501	3/4	600/RL	1,825	86
721 00511	7/8	600/Coil	2,468	119
721 00516	1	600/Coil	3,175	156
COMBO - WHITE				
Indusco Part #	Size	Ft./Reel or Coil	Working Load Limit	Weight per 600'
721 00381	1/2	600	490	39
721 00391	5/8	600	760	55
721 00401	3/4	600	1,200	75
721 00406	1	600	1,880	131
1200' COILS & LARGER SIZES AVAILABLE UPON REQUEST				



PERSONNEL NETS

- Made of 5/16" diameter polypropylene mesh rope, with a 5/8" diameter polypropylene frame.
- Constructed with a 6" diamond pattern lock mesh.
- Meets and exceeds OSHA spec. #1926.105 for nets.

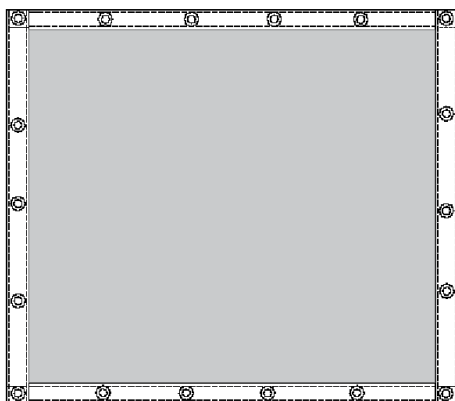


Indusco Part #	Size
594 00011	10' x 20'
594 00026	20' x 20'
594 00046	20' x 40'

Special requests welcome. We make nets to order!

CONTAINMENT SCREENS

- 85% - 100% CONTAINMENT SCREEN for use in marine, construction, painting and sandblast operations, or wherever debris containment is required.
- Available in a variety of colors.
- Flammability tests available on request.
- Any size available.



Type	Stock Sizes
85% Screen	35' x 50'
100% Screen	37' x 50'

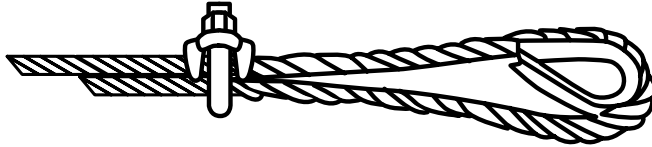
**Special requests welcome.
We make containment screens to order!**



HOW TO ATTACH WIRE ROPE CLIPS

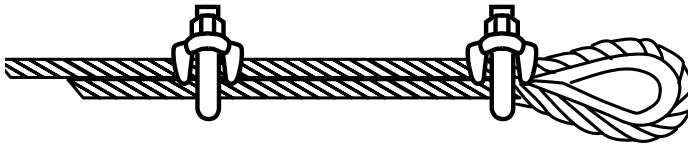
Turn back the specified amount of rope from the thimble. Apply the first clip one base width from the dead end of the wire rope (U bolt over dead end - live end rests in clip saddle). Tighten nuts evenly to recommended torque.

1



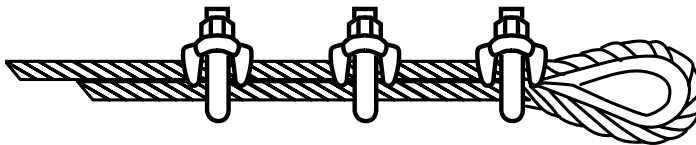
Apply the next clip as near the loop as possible. Turn on nuts firm, but do not tighten.

2



When these instructions require more than two clips - space additional clips equally between the first two - take up rope slack - tighten all nuts evenly on all clips to recommended torque.

3

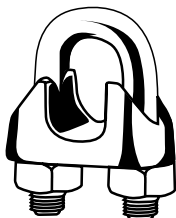


4

Apply the initial load and retighten nuts to the recommended torque. Rope will stretch and shrink in diameter when loads are applied. Inspect periodically and retighten. The tightening torque values shown are based upon the threads being clean, dry and free of lubrication.



MALLEABLE CLIPS - ZINC PLATED



⚠ WARNING

- **Not for Overhead Lifting!**
- Intended for use in making eye termination in right regular lay wire rope. Such an assembly is for non-critical light duty use where a small applied load is expected. For this reason, an efficiency of the termination is not stated.
- Cast iron base.
- Steel U-bolt and nuts.

ZINC PLATED - BULK						
Indusco Part #	Trade Size	Min. Number of Clips per Eye	Amount of Rope to Turn Back in Inches	Required Torque Ft. Lbs.	Bulk Packed	Weight Each
252 00081	1/16	2	4-3/4	1.5	500/BX	.02
252 00086	1/8	3	4-3/4	3.0	500/BX	.04
252 00091	3/16	3	5-1/2	4.5	500/BX	.08
252 00096	1/4	3	7	15	250/BX	.12
252 00101	5/16	3	7-3/4	15	250/BX	.15
252 00106	3/8	3	9-1/2	30	250/BX	.22
252 00111	7/16	3	10-1/4	40	100/BX	.33
252 00116	1/2	4	15-1/4	45	100/BX	.37
252 00121	9/16	4	16	50	100/BG	.59
252 00126	5/8	4	16	75	100/BG	.58
252 00131	3/4	5	22-1/4	75	100/BG	.84
252 00136	7/8	5	23-1/2	130	50/BG	1.25
252 00141	1	6	31	130	40/BG	1.56
252 00146	1-1/8	7	39-1/2	200	10/BG	2.50
252 00147	1-1/4	8	50	200	10/BG	3.15
252 00148	1-3/8	8	50	360	10/BG	4.45
252 00149	1-1/2	9	60-1/2	360	10/BG	5.20
ZINC PLATED - BOXED QTY						
252 00151	1/16	2	4-3/4	1.5	25/BX	.02
252 00156	1/8	3	4-3/4	3.0	25/BX	.04
252 00161	3/16	3	5-1/2	4.5	25/BX	.08
252 00166	1/4	3	7	15	25/BX	.12
252 00171	5/16	3	7-3/4	15	25/BX	.15
252 00176	3/8	3	9-1/2	30	25/BX	.22
252 00181	7/16	3	10-1/4	40	25/BX	.33
252 00186	1/2	4	15-1/4	75	25/BX	.37
252 00191	5/8	4	16	75	10/BX	.59
252 00196	3/4	5	22-1/4	75	10/BX	.84

WEIGHTS AND DIMENSIONS MAY VARY DUE TO MANUFACTURER TOLERANCES

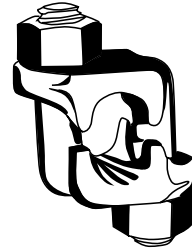
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DOUBLE GRIP CLIPS

WARNING

- **Not for Overhead Lifting!**
- Drop forged.
- Hot dipped galvanized.
- Intended for use in making eye termination in right regular lay wire rope.
- The efficiency rating of a properly prepared termination for clip sizes 3/16" through 7/8" is 80%, sizes 1" through 1-1/2" is 90%. This rating is based on the catalog breaking strength of the wire rope.
- Performance requirements FF-C-450D.
- Follow all warnings and instructions as supplied by the manufacturer.
- See Warning "**Double Grip Clips**" on Page 9 for proper use and selection.

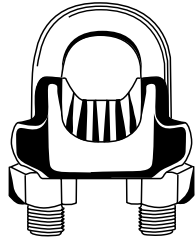


Indusco Part #	Trade Size	Min. Number of Clips per Eye	Amount of Rope to Turn Back in Inches	Required Torque Ft. Lbs.	Weight Each
HOT DIPPED GALVANIZED					
252 00406	1/4	2	4	30	.18
252 00411	5/16	2	5	30	.28
252 00416	3/8	2	5-1/4	45	.40
252 00421	1/2	3	11	65	.70
252 00426	5/8	3	13-1/2	130	1.00
252 00431	3/4	3	16	225	1.75
252 00436	7/8	4	26	225	2.25
252 00441	1	5	37	225	3.00
252 00587	1-1/8	5	41	360	4.00
252 00271	1-1/4	6	55	360	4.60
252 00281	1-1/2	7	78	500	5.44

WEIGHTS AND DIMENSIONS MAY VARY DUE TO MANUFACTURER TOLERANCES



DROP FORGED CLIPS



- Drop forged.
- Hot dipped galvanized.
- For Right Regular Lay or Right Lang Lay wire only.
- The efficiency rating of a properly prepared termination for clip sizes 1/8" through 7/8" is 80%, sizes 1" through 2-3/4" is 90%. Rating is based on the catalog breaking strength of the wire rope.
- Performance requirements FF-C-450D.
- Follow all warnings and instructions as supplied by the manufacturer.

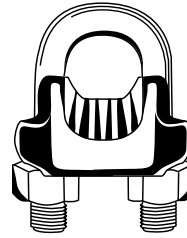
Indusco Part #	Trade Size	Min. Number of Clips per Eye	Amount of Rope to Turn Back in Inches	Required Torque Ft. Lbs.	Weight Each
HOT DIPPED GALVANIZED					
252 00206	1/8	2	3-1/4	4.5	.06
252 00211	3/16	2	3-3/4	7.5	.10
252 00216	1/4	2	4-3/4	15	.20
252 00221	5/16	2	5-1/4	30	.30
252 00226	3/8	2	6-1/2	45	.47
252 00231	7/16	2	7	65	.76
252 00236	1/2	3	11-1/2	65	.80
252 00241	9/16	3	12	95	1.04
252 00246	5/8	3	12	95	1.06
252 00251	3/4	3	18	130	1.50
252 00256	7/8	4	19	225	2.12
252 00261	1	5	26	225	2.60
252 00266	1-1/8	6	34	225	2.90
252 00271	1-1/4	7	44	360	4.30
252 00276	1-3/8	7	44	360	4.60
252 00281	1-1/2	8	54	360	5.40
252 00376	1-5/8	8	58	430	7.30
252 00286	1-3/4	8	61	590	9.25
252 00291	2	8	71	750	13.00
252 00516	2-1/4	8	73	750	16.00
252 00521	2-1/2	9	84	750	19.00

WEIGHTS AND DIMENSIONS MAY VARY DUE TO MANUFACTURER TOLERANCES



CLIPS - STAINLESS STEEL TYPE 316

- Intended for use in making eye termination in right regular lay wire rope.
- The efficiency rating of a properly prepared termination for clip sizes 1/16" through 7/8" is 80%, sizes 1" through 1-1/2" is 90%, this rating is based on the catalog breaking strength of the wire rope.
- Follow all warnings and instructions as supplied by the manufacturer.

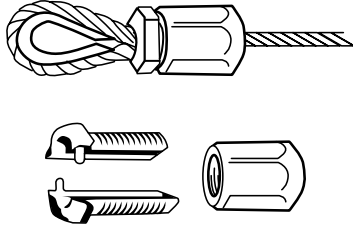


Indusco Part #	Trade Size	Min. Number of Clips per Eye	Amount of Rope to Turn Back in Inches	Weight Each
HEAVY DUTY DROP FORGED CLIPS (TYPE 316)				
252 00026	3/8	2	6-1/2	.52
252 00036	1/2	3	11-1/2	.89
252 00046	5/8	3	12	1.05
252 00056	3/4	3	18	1.50
252 00061	7/8	4	19	2.40
PRECISION CAST (DROP FORGED STYLE) SADDLE (TYPE 316)				
252 00001	1/16 - 3/32	2	3-1/4	.02
252 00006	1/8	2	3-1/4	.05
252 00008	3/16	2	3-3/4	.06
252 00011	1/4	2	4-3/4	.18
252 00016	5/16	2	5-1/4	.30
252 00021	3/8	2	6-1/2	.42
252 00031	1/2	3	11-1/2	.75
252 00041	5/8	3	12	.89
252 00051	3/4	3	18	1.05

WEIGHTS AND DIMENSIONS MAY VARY DUE TO MANUFACTURER TOLERANCES



SAFE LINE CLAMPS



- Drop forged / cadmium plated.
- Safe line clamps are intended for use only on 6x19 IWRC or 7x19 wire rope right regular lay.
- Meets military standard MS-16843.
- CAUTION- NEVER USE THIS PRODUCT ON SYNTHETIC OR NATURAL FIBER ROPES.
- Labor saving - one clamp can replace using multiple wire rope clips on each end.
- Can be field assembled.
- Encloses wire ends with tapered shape.
- Thimble not included.
- Follow all warnings and instructions as supplied by the manufacturer.

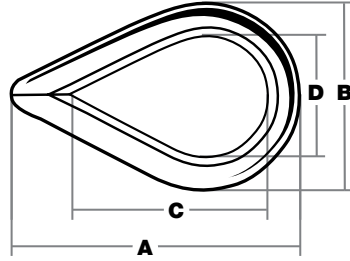
Indusco Part #	Size	MS-16843	Recommended Torque To Assemble* (Ft. Lbs.)	Weight Each
246 00021	1/8	-1	35	.13
246 00026	3/16	-2	80	.25
246 00031	1/4	-3	145	.32
246 00036	5/16	-4	225	.63
246 00041	3/8	-5	325	.81
246 00046	1/2	-6	575	1.2
246 99999	5/8	-7	900	3.0
246 00056	3/4	-8	1300	5.3

*Consult Manufacturers' recommendations for proper assembly.



REGULAR THIMBLES

- For light duty applications and load conditions.
- Meets dimensional requirements of Federal Specifications FF-T-276B Type II.
- See Warnings “Thimbles” on Page 7 for proper use and selection.

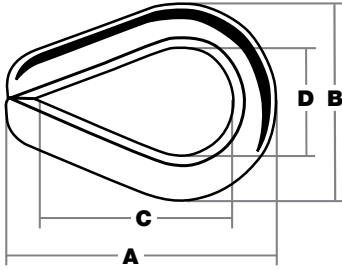


Indusco Part #	Trade Size	A	B	C	D	Max Pin Dia.	Weight Each
HOT DIPPED GALVANIZED							
897 00146	1/8	1.93	1.06	1.31	.68	.62	.03
897 00151	3/16	1.93	1.06	1.31	.68	.62	.03
897 00156	1/4	1.96	1.06	1.31	.68	.62	.04
897 00161	5/16	2.12	1.25	1.50	.81	.75	.04
897 00166	3/8	2.37	1.46	1.62	.93	.75	.06
897 00176	1/2	2.75	1.75	1.87	1.12	1.06	.13
897 00181	5/8	3.50	2.37	2.25	1.37	1.25	.35
897 00186	3/4	3.75	2.68	2.50	1.62	1.50	.50
897 00191	7/8	5.00	3.18	3.50	1.87	1.75	.85
897 00196	1	5.68	3.75	4.25	2.50	2.37	1.00
897 00201	1-1/8 to 1-1/4	6.25	4.31	4.50	2.75	2.62	1.75
STAINLESS STEEL (TYPE 316)							
897 00131	1/4	1.96	1.06	1.31	.68	.62	.03
897 00134	5/16	2.12	1.25	1.50	.81	.75	.04
897 00136	3/8	2.37	1.46	1.62	.93	.75	.06
897 00141	1/2	2.75	1.75	1.87	1.12	1.06	.13
897 00143	5/8	3.50	2.37	2.25	1.37	1.25	.35

WEIGHTS AND DIMENSIONS MAY VARY DUE TO MANUFACTURER TOLERANCES



HEAVY DUTY THIMBLES



- Designed to provide greater protection against wear and deformation of the wire rope eye.
- Meets dimensional requirements of Federal Specification FF-T-276B, Type III.
- See Warnings “Thimbles” on Page 7 for proper use and selection.

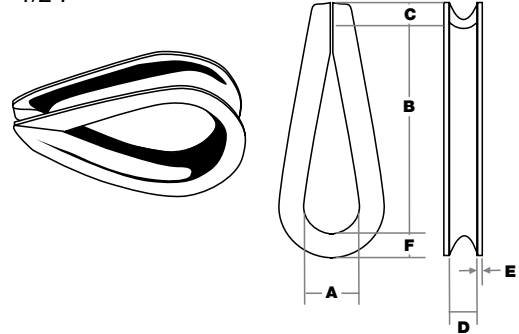
Indusco Part #	Trade Size	A	B	C	D	Max Pin Dia.	Weight Each
HOT DIPPED GALVANIZED							
897 00036	1/4	2.18	1.50	1.62	.87	.81	.07
897 00041	5/16	2.50	1.81	1.87	1.06	.93	.12
897 00046	3/8	2.87	2.12	2.12	1.12	1.06	.22
897 00051	7/16	3.25	2.37	2.37	1.25	1.18	.35
897 00056	1/2	3.62	2.75	2.75	1.50	1.43	.51
897 00061	9/16	3.62	2.75	2.75	1.50	1.43	.51
897 00066	5/8	4.25	3.12	3.25	1.75	1.62	.75
897 00071	3/4	5.00	3.81	3.75	2.00	1.87	1.60
897 00076	7/8	5.50	4.25	4.25	2.25	2.12	1.70
897 00081	1	6.12	4.93	4.50	2.50	2.37	3.00
897 00086	1-1/8 to 1-1/4	7.00	5.87	5.12	2.87	2.75	4.00
897 00091	1-1/4 to 1-3/8	9.00	6.81	6.25	3.50	3.25	9.00
897 00096	1-1/2	9.06	7.12	6.50	3.50	3.25	13.00
897 00098	1-5/8	11.25	8.12	8.00	4.00	3.87	17.00
897 00101	1-3/4	12.18	8.50	9.00	4.50	4.37	17.75
897 00106	2	15.12	10.37	12.00	6.00	5.87	27.00
897 00111	2-1/4	17.50	11.87	14.00	7.00	6.87	39.50
STAINLESS STEEL (TYPE 316)							
897 00001	1/4	2.18	1.50	1.62	.87	.81	.06
897 00006	5/16	2.50	1.81	1.87	1.06	.93	.12
897 00011	3/8	2.87	2.12	2.12	1.12	1.06	.22
897 00016	1/2	3.62	2.75	2.75	1.50	1.43	.51
897 00021	5/8	4.25	3.12	3.25	1.75	1.62	.75
897 00026	3/4	5.00	3.81	3.75	2.00	1.87	1.60
897 00033	7/8	5.50	4.25	4.25	2.25	2.12	1.70
897 00031	1	6.12	4.93	4.50	2.50	2.37	3.00

WEIGHTS AND DIMENSIONS MAY VARY DUE TO MANUFACTURER TOLERANCES



A.N. THIMBLES

- Available zinc plated steel or natural finish stainless steel to fit diameters 1/16" - 1/2".
- Meets design requirements of aeronautical standard AN100.
- See Warnings "**Thimbles**" on Page 7 for proper use and selection.



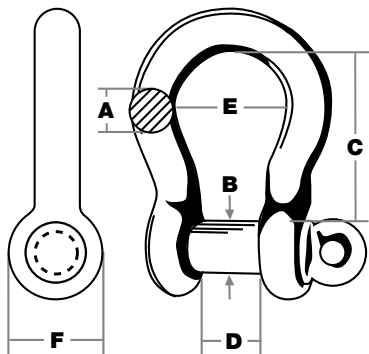
Indusco Part #	Trade Size	AN Part No.	A	B	C	D	E	F	Weight per 100 pcs
ZINC PLATED									
897 00209	1/16	AN 100-3	.35	.67	.18	.09	.03	.07	.15
897 00211	3/32 to 1/8	AN 100-4	.35	.70	.21	.14	.03	.07	.43
897 00216	5/32	AN 100-5	.40	.79	.21	.17	.03	.10	.60
897 00221	3/16	AN 100-6	.50	1.00	.31	.20	.03	.14	1.0
897 99999	7/32	AN 100-7	.60	1.40	.40	.23	.03	.15	1.2
897 00226	1/4	AN 100-8	.70	1.40	.40	.26	.03	.17	1.5
897 99999	9/32	AN 100-9	.80	1.60	.40	.29	.04	.20	2.3
897 00231	5/16	AN 100-10	.90	1.79	.43	.32	.04	.21	3.5
897 00236	3/8	AN 100-12	1.00	2.00	.62	.39	.06	.26	8.5
897 99999	7/16	AN 100-14	1.12	2.25	.81	.45	.08	.32	11.0
897 00239	1/2	AN 100-16	1.25	2.50	1.00	.52	.08	.40	14.0
STAINLESS STEEL- (TYPE 304)									
897 00116	1/16	AN 100C-3	.35	.67	.18	.09	.03	.07	.15
897 00121	3/32 to 1/8	AN 100C-4	.35	.70	.21	.14	.03	.07	.43
897 99999	5/32	AN 100C-5	.40	.79	.21	.17	.03	.10	.60
897 00126	3/16	AN 100C-6	.50	1.00	.31	.20	.03	.14	1.0
897 99999	7/32	AN 100C-7	.60	1.40	.40	.23	.03	.15	1.2
897 99999	1/4	AN 100C-8	.70	1.40	.40	.26	.04	.17	1.5
897 99999	9/32	AN 100C-9	.80	1.60	.40	.29	.04	.20	2.3
897 99999	5/16	AN 100C-10	.90	1.79	.43	.32	.04	.21	3.5
897 99999	3/8	AN100C-12	1.00	2.00	.62	.39	.06	.26	8.5
897 99999	7/16	AN100C-14	1.12	2.25	.81	.45	.08	.32	11.0
897 00141	1/2	AN 100-C16	1.25	2.50	1.00	.52	.08	.40	14.0

WEIGHTS AND DIMENSIONS MAY VARY DUE TO MANUFACTURER TOLERANCES

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SCREW PIN ANCHOR SHACKLES



- Hot dipped galvanized.
- Meets design requirements of Federal Specification RR-C-271 Type IV A Grade A Class 2.
- See Warnings “**Shackles**” on Page 7 for proper use and selection.

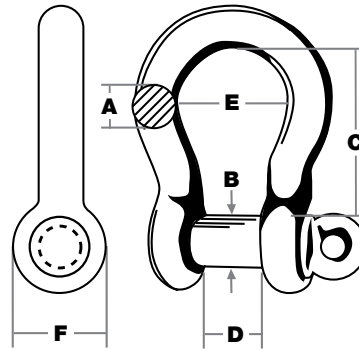
Indusco Part #	A Nominal Size	B Pin Dia.	C	D	E	F	Weight Each	Working Load Limit*
DROP FORGED - HOT DIPPED GALVANIZED								
751 00066	3/16	.25	.75	.38	.59	.56	.06	650
751 00076	1/4	.31	1.13	.47	.78	.69	.10	1,000
751 00091	5/16	.38	1.25	.53	.84	.81	.19	1,500
751 00106	3/8	.44	1.50	.66	1.03	.97	.31	2,000
751 00121	7/16	.50	1.75	.72	1.16	1.13	.38	3,000
751 00131	1/2	.63	2.00	.81	1.31	1.31	.70	4,000
751 00146	5/8	.75	2.50	1.06	1.69	1.56	1.38	6,500
751 00161	3/4	.88	3.00	1.25	2.00	1.88	2.25	9,500
751 00176	7/8	1.00	3.25	1.44	2.25	2.13	3.62	13,000
751 00191	1	1.13	3.75	1.69	2.50	2.38	5.00	17,000
751 00206	1-1/8	1.25	4.25	1.81	2.94	2.63	7.40	19,000
751 00216	1-1/4	1.38	4.50	2.00	3.25	3.00	9.50	24,000
751 00226	1-3/8	1.50	5.25	2.25	3.50	3.25	13.25	27,000
751 00236	1-1/2	1.63	5.75	2.38	3.88	3.50	17.20	34,000
751 00246	1-3/4	2.00	7.00	2.88	4.75	4.00	30.30	50,000
751 00256	2	2.25	7.75	3.25	5.75	4.88	45.00	70,000
751 00266	2-1/2	2.75	10.56	4.13	7.25	5.50	85.70	110,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



SCREW PIN ANCHOR SHACKLES

- Meets design requirements of Federal Specification RR-C-271 Type IV A Class 2.
- See Warnings “**Shackles**” on Page 7 for proper use and selection.

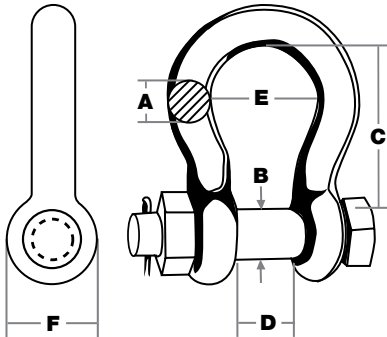


Indusco Part #	A Nominal Size	B Pin Dia.	C	D	E	F	Weight Each	Working Load Limit*
STAINLESS STEEL- (TYPE 316)								
751 00073	3/16	.25	.75	.38	.59	.56	.05	650
751 00086	1/4	.31	1.13	.47	.78	.69	.10	1,000
751 00101	5/16	.38	1.25	.53	.84	.81	.18	1,300
751 00116	3/8	.44	1.50	.66	1.03	.97	.30	1,500
751 00128	7/16	.50	1.75	.72	1.16	1.13	.35	2,000
751 00141	1/2	.63	2.00	.81	1.31	1.31	.65	3,000
751 00156	5/8	.75	2.50	1.06	1.69	1.56	1.30	4,420
751 00171	3/4	.88	3.00	1.25	2.00	1.88	2.16	6,000
751 00190	7/8	1.00	3.25	1.44	2.25	2.13	3.50	8,000
751 00205	1	1.13	3.75	1.69	2.50	2.38	5.00	10,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



BOLT AND NUT ANCHOR SHACKLES



- Meets design requirements of Federal Specifications RR-C-271 Type IV A Grade A Class 3.
- See Warnings "**Shackles**" on Page 7 for proper use and selection.

Indusco Part #	A Nominal Size	B Pin Dia.	C	D	E	F	Weight Each	Working Load Limit*
DROP FORGED-HOT DIPPED GALVANIZED								
751 00809	3/8	.43	1.50	.65	1.03	.96	.33	2,000
751 00436	1/2	.63	2.00	.81	1.31	1.31	.79	4,000
751 00446	5/8	.75	2.50	1.0	1.69	1.56	1.68	6,500
751 00456	3/4	.88	3.00	1.25	2.00	1.88	2.72	9,500
751 00466	7/8	1.00	3.25	1.44	2.25	2.13	3.95	13,000
751 00476	1	1.13	3.75	1.69	2.50	2.38	5.80	17,000
751 00486	1-1/8	1.25	4.25	1.81	2.94	2.63	8.27	19,000
751 00496	1-1/4	1.38	4.50	2.00	3.25	3.00	11.70	24,000
751 00506	1-3/8	1.50	5.25	2.25	3.50	3.25	15.80	27,000
751 00516	1-1/2	1.63	5.75	2.38	3.88	3.50	20.00	34,000
751 00526	1-3/4	2.00	7.00	2.88	4.75	4.00	33.90	50,000
751 00536	2	2.25	7.75	3.25	5.75	4.88	52.00	70,000
751 00546	2-1/2	2.75	10.56	4.13	7.25	5.50	98.00	110,000
751 00556	3	3.25	13.13	5.00	8.00	6.50	154.00	170,000
STAINLESS STEEL - (TYPE 316)								
Indusco Part #	A Nominal Size	B Pin Dia.	C	D	E	F	Weight Each	Working Load Limit**
751 01010	3/8	.44	1.44	.69	1.00	.94	.30	1,500
751 01016	7/16	.50	1.75	.75	1.06	1.13	.44	2,000
751 01021	1/2	.63	1.94	.81	1.25	1.25	.72	3,000
751 01026	5/8	.75	2.44	1.06	1.63	1.63	1.60	4,000
751 01031	3/4	.88	3.00	1.25	1.88	1.88	2.70	6,000

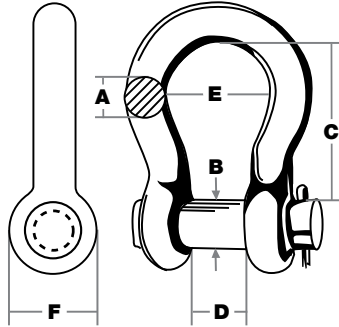
*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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ROUND PIN ANCHOR SHACKLES

- Drop forged.
- Hot dipped galvanized.
- Meets design requirements of Federal Specification RR-C-271 Type IV A Grade A Class 1.
- See Warnings “**Shackles**” on Page 7 for proper use and selection.

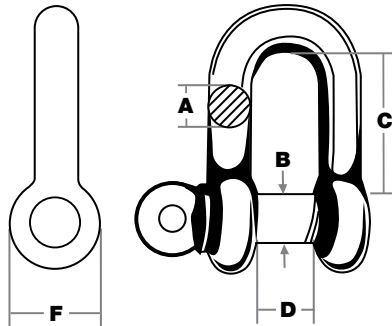


Indusco Part #	A Nominal Size	B Pin Dia.	C	D	E	F	Weight Each	Working Load Limit*
751 00926	1/4	.31	1.13	.47	.78	.69	.12	1,000
751 00927	5/16	.38	1.25	.53	.84	.81	.19	1,500
751 00928	3/8	.44	1.50	.66	1.03	.97	.30	2,000
751 99999	7/16	.50	1.75	.72	1.16	1.13	.38	3,000
751 01036	1/2	.63	2.00	.81	1.31	1.31	.72	4,000
751 01035	5/8	.75	2.50	1.06	1.69	1.56	1.50	6,500
751 01037	3/4	.88	3.00	1.25	2.00	1.88	2.30	9,500
751 01116	7/8	1.00	3.25	1.44	2.25	2.13	3.50	13,000
751 01040	1	1.13	3.75	1.69	2.50	2.38	5.00	17,000
751 01039	1-1/8	1.25	4.25	1.81	2.94	2.63	6.97	19,000
751 01038	1-1/4	1.38	4.50	2.00	3.25	3.00	9.70	24,000
751 01041	1-3/8	1.50	5.25	2.25	3.50	3.25	13.00	27,000
751 01226	1-1/2	1.62	5.75	2.75	3.87	3.50	17.30	34,000
751 01221	1-3/4	2.00	7.00	2.87	4.75	4.00	29.00	50,000
751 01121	2	2.25	7.75	3.25	5.75	4.88	44.00	70,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



SCREW PIN CHAIN SHACKLES



- Drop forged.
- Hot dipped galvanized.
- Meets design requirements of Federal Specification RR-C-271 Type IV B Grade A Class 2.
- See Warnings **"Shackles"** on Page 7 for proper use and selection.

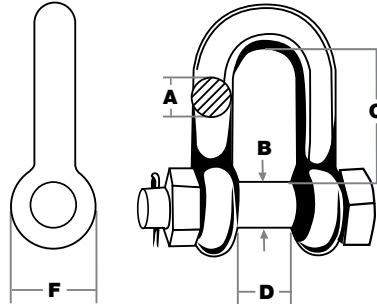
Indusco Part #	A Nominal Size	B Pin Dia.	C	D	F	Weight Each	Working Load Limit*
751 00291	1/4	.31	.88	.47	.69	.10	1,000
751 00301	5/16	.38	1.00	.53	.81	.18	1,500
751 00311	3/8	.44	1.25	.66	.97	.30	2,000
751 00321	7/16	.50	1.50	.72	1.13	.40	3,000
751 00331	1/2	.63	1.69	.81	1.31	.65	4,000
751 00341	5/8	.75	2.00	1.06	1.56	1.30	6,500
751 00351	3/4	.88	2.31	1.25	1.88	2.16	9,500
751 00361	7/8	1.00	2.81	1.44	2.13	3.37	13,000
751 00371	1	1.13	3.25	1.69	2.38	4.90	17,000
751 00381	1-1/8	1.25	3.50	1.81	2.75	7.00	19,000
751 00391	1-1/4	1.38	3.69	2.00	3.00	9.60	24,000
751 00401	1-3/8	1.50	4.50	2.25	3.13	12.00	27,000
751 00406	1-1/2	1.63	5.00	2.38	3.50	16.00	34,000
751 00416	1-3/4	2.00	5.88	2.88	4.00	27.00	50,000
751 00426	2	2.25	6.75	3.25	4.88	43.00	70,000
751 00431	2-1/2	2.75	8.06	4.13	5.50	72.00	110,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



BOLT AND NUT CHAIN SHACKLES

- Drop forged.
- Hot dipped galvanized.
- Meets design requirements of Federal Specification RR-C-271 Type IV B Grade A Class 3.
- See Warnings “**Shackles**” on Page 7 for proper use and selection.

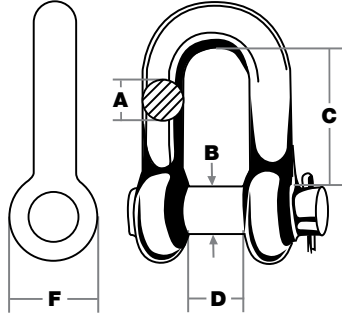


Indusco Part #	A Nominal Size	B Pin Dia.	C	D	F	Weight Each	Working Load Limit*
751 00571	1/2	.63	1.69	.81	1.31	.75	4,000
751 00572	5/8	.75	2.00	1.06	1.56	1.50	6,500
751 00573	3/4	.88	2.31	1.25	1.88	2.50	9,500
751 00591	7/8	1.00	2.81	1.44	2.13	3.85	13,000
751 00606	1	1.13	3.25	1.69	2.38	5.55	16,000
751 00612	1-1/8	1.25	3.50	1.81	2.75	7.60	19,000
751 00616	1-1/4	1.38	3.69	2.00	3.00	10.80	24,000
751 00626	1-3/8	1.50	4.50	2.25	3.13	14.00	27,000
751 00631	1-1/2	1.63	5.00	2.38	3.50	19.00	34,000
751 00637	1-3/4	2.00	5.88	2.88	4.00	31.40	50,000
751 00639	2	2.25	6.75	3.25	4.88	46.80	70,000
751 00641	2-1/2	2.75	8.06	4.13	5.50	83.50	110,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



ROUND PIN CHAIN SHACKLES



- Drop forged.
- Hot dipped galvanized.
- Meets design requirements of Federal Specification RR-C-271 Type IV B Grade A Class 1.
- See Warnings “**Shackles**” on Page 7 for proper use and selection.

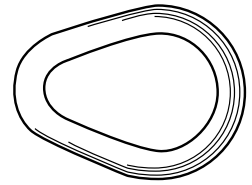
Indusco Part #	A Nominal Size	B Pin Dia.	C	D	F	Weight Each	Working Load Limit*
751 99999	1/4	.32	.88	.47	.69	.10	1,000
751 01042	5/16	.38	1.00	.53	.81	.19	1,500
751 01126	3/8	.44	1.25	.66	.97	.28	2,000
751 01044	7/16	.50	1.50	.72	1.13	.40	3,000
751 99999	1/2	.63	1.69	.81	1.31	.50	4,000
751 01111	5/8	.75	2.00	1.06	1.56	1.20	6,500
751 99999	3/4	.88	2.31	1.25	1.88	2.00	9,500
751 01116	7/8	1.00	2.81	1.44	2.13	3.50	13,000
751 99999	1	1.13	3.25	1.69	2.38	4.70	17,000
751 01046	1-1/8	1.25	3.50	1.81	2.75	6.80	19,000
751 99999	1-1/4	1.38	3.69	2.00	3.00	9.00	24,000
751 99999	1-3/8	1.50	4.50	2.25	3.13	12.00	27,000
751 99999	1-1/2	1.63	5.00	2.38	3.50	16.00	34,000
751 99999	1-3/4	2.00	5.88	2.88	4.00	30.00	50,000
751 01121	2	2.25	6.75	3.25	4.88	42.00	70,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



PEAR SHAPED LINKS

- Carbon steel.
- Painted finish.
- See Warnings “**Master Links**” on Page 7 for proper use and selection.

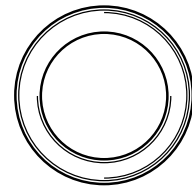


Indusco Part #	Trade Size	Inside Length	Inside Width Small End	Inside Width Large End	Weight Each	Working Load Limit*
544 00626	3/8	2.25	.75	1.50	0.23	1,800
544 00631	1/2	3.00	1.00	2.00	0.55	2,900
544 00636	5/8	3.75	1.25	2.50	1.10	4,200
544 00641	3/4	4.50	1.50	3.00	1.90	6,000
544 00646	7/8	5.25	1.75	3.50	2.78	8,300
544 00651	1	6.00	2.00	4.00	4.70	10,800
544 00656	1-1/4	7.75	2.50	5.00	8.50	16,750
544 00661	1-3/8	8.25	2.75	5.50	12.30	20,500

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 6:1

RINGS

- Carbon steel.
- Sizes 3/16 to 3/8 have zinc plated finish.
- Sizes 1/2 to 1-3/8 have painted finish.
- See Warnings “**Master Links**” on Page 7 for proper use and selection.

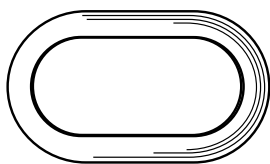


Indusco Part #	Diameter Stock	Inside Diameter	Weight Each	Working Load Limit
Welded*				
544 00541	3/16	1.25	0.03	275
544 00551	1/4	1.50	0.08	450
544 00546	1/4	2.00	0.10	350
544 00556	5/16	2.00	0.16	600
544 00561	3/8	2.00	0.23	900
544 00563	3/8	3.00	0.33	900
544 00566	1/2	2.50	0.60	1,400
544 00568	1/2	4.00	0.78	1,400
544 00571	5/8	4.00	1.45	1,700
Drop Forged - Weldless**				
544 00576	7/8	4.00	2.75	7,200
544 00582	7/8	5.50	3.50	5,600
544 00586	1	4.00	3.63	10,800
544 00591	1-1/4	5.00	7.00	17,000
544 00596	1-3/8	6	10.60	19,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

**WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 6:1

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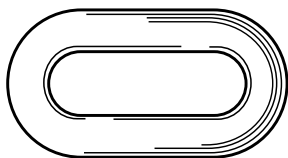
ALLOY MASTER LINKS - GRADE 80

- Painted finish.
- See Warnings “Master Links” on Page 7 for proper use and selection.

Indusco Part #	Diameter	Inside Length	Inside Width	Weight Each	Working Load Limit*
544 00266	1/2	5.00	2.50	.89	7,400
544 00271	5/8	5.50	2.75	1.60	9,000
544 00276	3/4	6.00	3.00	2.30	12,300
544 00281	1	7.00	3.50	4.75	26,000
544 00286	1-1/4	8.75	4.37	9.80	39,100
544 00291	1-1/2	10.50	5.25	17.20	61,000
544 00296	1-3/4	12.00	6.00	26.20	84,900
544 00301	2	14.00	7.00	41.20	102,600
544 00306	2-1/4	16.00	8.00	55.00	143,100
544 00311	2-1/2	16.00	8.00	71.60	160,000
544 99999	2-3/4	16.00	9.50	87.70	216,900
544 99999	3	18.00	9.00	115.00	228,000
544 99999	3-1/4	20.00	10.00	145.80	262,200
544 99999	3-1/2	24.00	12.00	200.00	279,000

* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1 FOR WIRE ROPE SLINGS AND A DESIGN FACTOR OF 4:1 FOR GRADE 80 CHAIN SLINGS

WELDLESS END LINKS



WARNING

- **NOT FOR LIFTING.**
- Drop forged.
- Available as self colored or hot dipped galvanized.

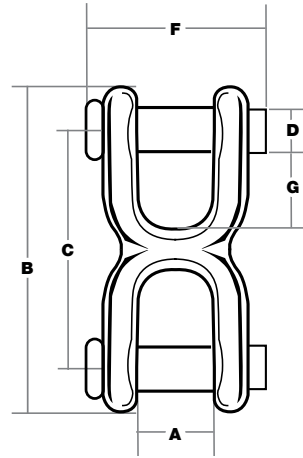
Indusco Part #	Diameter Stock	Inside Length	Inside Width	Weight Each	Working Load Limit* (Single Pull)
544 03012	5/16	1.75	.50	.15	2,500
544 03014	3/8	1.87	.56	.23	3,800
544 03016	1/2	2.37	.75	.45	6,500
544 03018	5/8	3.25	1.00	.95	9,300
544 03020	3/4	3.50	1.12	1.51	14,000
544 99999	7/8	5.12	2.00	2.75	12,000
544 99999	1	5.75	2.25	3.95	15,200
544 99999	1-1/4	7.00	2.50	7.30	26,400
544 03022	1-3/8	7.75	2.75	10.38	30,000

* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



TWIN DOUBLE CLEVIS LINKS

- Drop forged.
- Carbon steel body with alloy pins.
- Zinc plated finish.

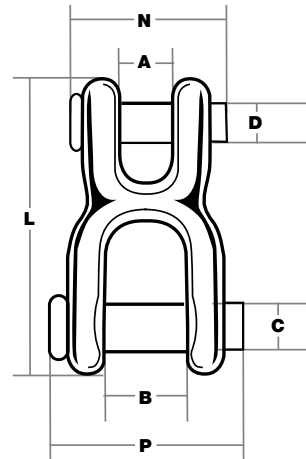


Indusco Part #	Chain Size	A	B	C	D	F	G	Weight Each	Working Load Limit*
544 00201	1/4 - 5/16	.44	2.50	1.56	.38	1.40	.45	.30	4,700
544 00206	3/8	.53	2.81	1.85	.44	1.65	.50	.45	6,600
544 00211	7/16 - 1/2	.65	3.62	2.30	.56	2.08	.63	1.0	11,250

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

UNEQUAL DOUBLE CLEVIS LINKS

- Drop forged.
- Designed for linking all popular sizes of chain to rings, end links, eye hooks, pad eyes, etc.
- Pins can be removed with pliers.
- All pins alloy steel.
- Painted finish.

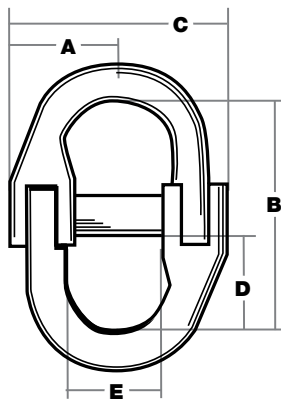


Indusco Part #	Chain Size	A	B	C	D	L	N	P	Weight Each	Working Load Limit*
544 99999	1/4	.50	.75	.50	.32	2.81	1.47	1.79	.44	3,250
544 00191	5/16 - 3/8	.56	.92	.62	.44	3.53	1.90	2.38	.81	5,400
544 00193	7/16	.69	1.12	.69	.58	4.06	2.12	2.66	1.28	7,000
544 00196	1/2	.81	1.25	.75	.63	4.53	2.38	2.91	1.68	9,200

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



ALLOY CONNECTING LINKS



- Drop forged.
- Grade 80 alloy steel.
- Easy to assemble.
- Includes locking retaining pin.
- Painted finish.

Indusco Part #	Trade Size	A	B	C	D	E	Weight Each	Working Load Limit*
544 00001	1/4 (9/32)	.33	1.88	1.85	.78	.63	.28	3,500
544 00004	5/16	.36	2.18	1.97	.91	.66	.33	4,500
544 00006	3/8	.45	2.53	2.50	1.03	.85	.73	7,100
544 00011	1/2	.59	3.36	3.22	1.44	1.09	1.67	12,000
544 00016	5/8	.73	4.13	3.78	1.73	1.38	2.86	18,100
544 00021	3/4	.91	4.56	4.66	2.09	1.62	5.00	28,300
544 00026	7/8	1.00	5.46	5.60	2.31	1.97	7.50	34,200
544 00031	1	1.18	5.98	6.19	2.50	2.25	11.03	47,700

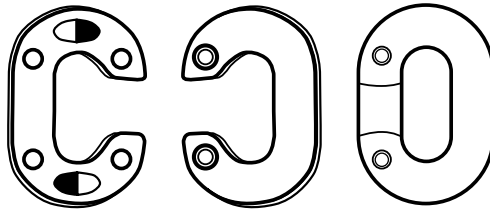
*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



CONNECTING LINKS

WARNING

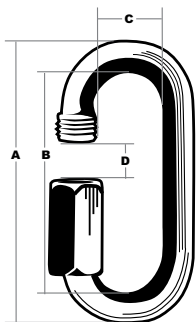
- **NOT FOR LIFTING.**
- Drop forged.
- Carbon steel.
- Hot dipped galvanized.
- Integral rivets join the two halves; matched lugs distribute the load.
- After making connections, rivets must be peened.
- Meets design requirements according to Federal Specifications RR-C-271, TYPE II.
- See Warnings “**Proof Coil Connecting Links**” on Page 9 for proper use and selection.



Indusco Part #	Size Inches	Overall Dimensions	Inside Dimensions	Weight Per 100 pcs.	Working Load Limit*
GALVANIZED					
544 00116	3/16**	1.19 x .78	.69 x .34	2.50	800
544 00121	1/4**	1.50 x 1.00	.88 x .44	6.25	1,325
544 00126	5/16**	1.69 x 1.16	.94 x .47	12.50	1,950
544 00131	3/8	2.06 x 1.38	1.13 x .56	20.00	2,750
544 00136	7/16	2.34 x 1.53	1.28 x .59	27.50	3,625
544 00141	1/2	2.67 x 1.72	1.47 x .67	37.50	4,750
544 00146	5/8	3.31 x 2.09	1.81 x .78	72.50	7,250
544 00151	3/4	3.88 x 2.50	2.13 x .94	122.50	10,250
544 00156	7/8	4.50 x 2.91	2.50 x 1.13	175.00	15,500
544 00161	1**	5.00 x 3.31	2.75 x 1.25	250.00	15,500
544 00166	1-1/4	6.13 x 4.18	3.25 x 1.785	470.00	24,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

** HAVE RIVETS ONLY - NO INTERLOCKING LUGS.



RAPID LINKS

⚠ WARNING

- NOT FOR LIFTING.
- Available zinc plated or stainless steel.
- See Warnings “Proof Coil Connecting Links” on Page 9 for proper use and selection.

Indusco Part #	Size	A	B	C	D	Weight Per 100 pcs.	Working Load Limit*
STANDARD ZINC PLATED							
544 00392	1/8	1.44	1.13	.38	.18	2	130
544 00397	3/16	2.00	1.56	.50	.25	5	400
544 00402	1/4	2.38	1.88	.56	.31	8	600
544 00412	5/16	2.96	2.31	.67	.38	18	800
544 00417	3/8	3.13	2.50	.75	.44	25	1,200
544 00419	7/16	3.91	3.08	.85	.56	43	3,320
544 00421	1/2	4.18	3.18	.88	.61	54	4,500
STANDARD STAINLESS STEEL							
544 00476	1/8	1.44	1.13	.38	.18	2	220
544 00481	3/16	2.00	1.56	.50	.25	5	660
544 00486	1/4	2.38	1.88	.56	.31	8	880
544 00491	5/16	2.96	2.31	.67	.38	18	1,900
544 00496	3/8	3.13	2.50	.75	.44	25	2,300
544 00501	1/2	4.18	3.18	.88	.61	54	3,300
PREMIUM ZINC PLATED							
544 00391	1/8	1.44	1.13	.38	.18	2	400
544 00396	3/16	2.00	1.56	.50	.25	5	750
544 00401	1/4	2.38	1.88	.56	.31	8	1,250
544 00411	5/16	2.96	2.31	.67	.38	18	1,900
544 00416	3/8	3.13	2.50	.75	.44	25	2,650
544 00421	1/2	4.18	3.18	.88	.61	53	4,500
544 00466	9/16	4.75	3.66	1.06	.70	85	4,840
544 00471	5/8	5.50	3.91	1.18	.75	133	6,380

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



COLD SHUT LINKS

WARNING

- **NOT FOR LIFTING.**
- Available for proof coil (Grade 30).
- Always use one size larger cold shut link than chain size.
- Weld shut after closing.
- See Warnings “**Proof Coil Connecting Links**” on Page 9 for proper use and selection.

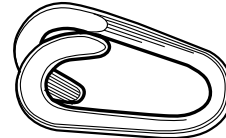


Indusco Part #	Trade Size	Inside Width	Inside Length	Weight Per 100 pcs.
PROOF COIL - SELF-COLORED				
544 00036	3/16	.34	.94	3
544 00041	1/4	.38	1.19	6
544 00046	5/16	.44	1.38	10
544 00051	3/8	.63	1.50	18
544 00056	7/16	.69	1.56	26
544 00061	1/2	.75	1.88	38
544 00066	5/8	.81	2.00	78
544 00071	3/4	1.00	2.50	130
544 00073	1	1.75	3.13	300

LAP LINKS

WARNING

- **NOT FOR LIFTING.**
- To provide a simple, easy repair or connection.
- Always use one size larger lap link than chain size.
- Weld shut after closing.
- See Warnings “**Proof Coil Connecting Links**” on Page 9 for proper use and selection.



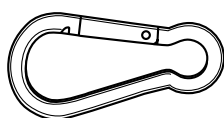
Indusco Part #	Trade Size	Inside Dimensions of Link Length	Inside Dimensions of Link Width	Weight per 100 pcs.
ZINC PLATED				
544 00219	1/8 x 3/4	.78	.36	1.00
544 00221	3/16 x 1	1.00	.50	3.25
544 00226	1/4 x 1-1/4	1.25	.50	6.75
544 00231	1/4 x 2	2.00	.63	9.75
544 00236	5/16 x 1-1/2	1.50	.75	13.00
544 00241	5/16 x 2	2.00	.75	17.00
544 00246	3/8 x 1-5/8	1.63	.75	23.00
544 00251	3/8 x 2	2.00	.75	26.00
544 00256	1/2 x 2-1/2	2.50	1.00	53.00
544 00261	5/8 x 2-1/2	2.50	1.13	81.00



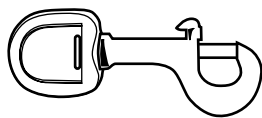
SNAPS AND HOOKS

⚠ WARNING

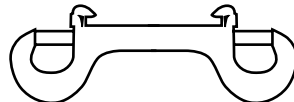
- **NOT FOR LIFTING.**
- See Warnings “**Proof Coil Connecting Links**” on Page 9 for proper use and selection.



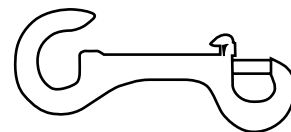
Universal



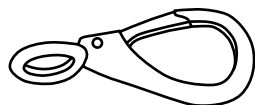
#33 Swivel Bolt



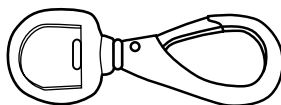
#36 Double Bolt



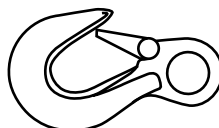
#38 Open Bolt



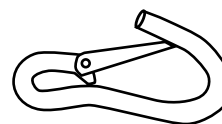
Fixed Eye



Swivel Eye



#13 Forged



#15 Formed Steel

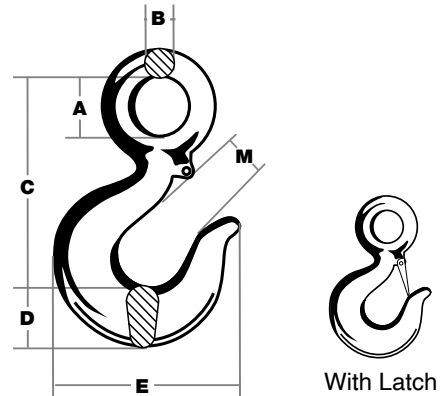
Indusco Part #	Description	Size	Weight Per 100 pcs.	Working Load Limit*
ZINC PLATED SNAPS				
782 00036	Universal	3/16	4	70
782 00041	Universal	1/4	7	140
782 00051	Universal	9/32	11	210
782 00056	Universal	5/16	16	280
782 00066	Universal	3/8	38	400
782 00076	Universal	7/16	56	500
782 00086	#32 Open Swivel	3/4 x 4 1/2	8	25
782 00101	#33 Swivel Bolt	1/2 x 3	8	25
782 00096	#34 Swivel Bolt	5/8 x 3 1/2	10	50
782 00091	#36 Double Bolt	3/8 x 4	15	50
782 00106	#38 Open Bolt	1/2 x 4	15	50
BRONZE SNAPS				
782 00001	Fixed Eye-0	3/8 x 2	8	30
782 00006	Fixed Eye-1	5/8 x 2-7/8	12	30
782 00011	Fixed Eye-2	11/16 x 3-1/4	19	40
782 00016	Fixed Eye-3	3/4 x 3-7/8	30	50
782 00021	Swivel Eye-1	5/8 x 3-1/4	15	25
782 00026	Swivel Eye-2	3/4 x 3-3/4	22	35
782 00031	Swivel Eye -3	3/4 x 4-1/2	39	45
ZINC PLATED HOOKS WITH LATCH				
474 00776	#13 Forged	3/4 x 4	37	1,000
474 00781	#15 Formed Steel	3/8 x 4-1/2	44	120

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 3:1



EYE HOOKS

- Drop forged.
- Painted finish.
- Hook has a pre-drilled cam which can be equipped with a latch.
- See Warnings “**Hoist Hooks**” on Page 6 for proper use and selection.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.



ALLOY STEEL EYE HOOKS*									
Indusco Part # Without Latch	Indusco Part # With Latch	Working Load Limit (Tons)	DIMENSIONS						Weight Each
			A	B	C	D	E	M	
474 00516	474 00557	1-1/2	.90	.42	3.81	.84	3.10	.90	.75
474 00521	474 00561	2	1.12	.55	4.14	1.00	3.50	1.00	1.0
474 00526	474 00566	3	1.25	.58	4.70	1.12	3.96	1.10	1.7
474 00531	474 00571	4-1/2	1.56	.72	5.75	1.45	4.80	1.35	3.5
474 00536	474 00576	7	2.00	.90	7.37	1.80	6.27	1.60	7.5
474 00541	474 00581	11	2.40	1.10	9.06	2.25	7.45	2.08	13.0
474 00546	474 00547	15	2.84	1.25	10.00	2.60	8.30	2.27	22.7
474 00551	474 00552	22	3.50	1.56	12.50	3.00	10.30	3.00	39.5
CARBON STEEL EYE HOOKS**									
474 00356	474 00406	3/4	.75	.36	3.30	.72	2.82	.90	.5
474 00361	474 00411	1	.90	.42	3.81	.84	3.10	.90	.75
474 00366	474 00416	1-1/2	1.12	.55	4.14	1.00	3.50	1.00	1.0
474 00371	474 00421	2	1.25	.58	4.70	1.12	3.96	1.10	1.7
474 00376	474 00426	3	1.56	.72	5.75	1.45	4.80	1.35	3.5
474 00381	474 00431	5	2.00	.90	7.37	1.80	6.27	1.60	7.5
474 00386	474 00387	7-1/2	2.40	1.10	9.06	2.25	7.45	2.08	13.0
474 00388	474 00464	10	2.84	1.25	10.00	2.60	8.30	2.27	22.7
474 00465	474 00467	15	3.50	1.56	12.50	3.00	10.30	3.00	39.5
474 00468	474 99999	20	3.50	1.75	14.00	3.62	13.60	3.25	60.0

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

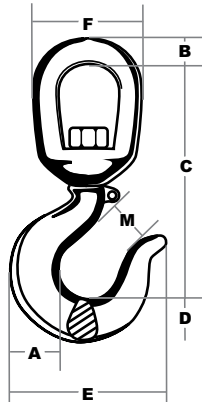
**WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



SWIVEL EYE HOOKS



With latch



- Drop forged.
- Intended for use as a positioning device and is not intended to rotate under load.
- See Warnings “**Hoist Hooks**” on Page 6 for proper use and selection.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.

ALLOY STEEL SWIVEL EYE HOOKS*									
Indusco Part # With Latch	Working Load Limit (Tons)	DIMENSIONS							
		A	B	C	D	E	F	M	Weight Each
474 00936	1	.80	.38	4.50	.72	2.82	2.00	.90	.75
474 00941	1-1/2	1.30	.50	5.39	.84	3.10	2.50	.90	1.25
474 00943	2	1.50	.63	6.10	1.00	3.50	3.00	1.00	2.25
474 00946	3	1.50	.63	6.50	1.12	3.96	3.00	1.10	2.50
474 00951	4-1/2	1.60	.75	7.50	1.45	4.80	3.50	1.35	4.90
474 00956	7	2.30	1.00	9.63	1.80	6.27	4.56	1.60	10.30
474 00961	11	2.53	1.13	11.36	2.25	7.45	5.00	2.08	19.50
474 00706	15	2.55	1.25	12.25	2.60	8.30	5.62	2.27	23.50
474 00707	22	3.76	1.50	16.70	3.00	10.30	7.10	3.00	47.00
CARBON STEEL SWIVEL EYE HOOKS**									
474 00966	3/4	.80	.38	4.50	.72	2.82	2.00	.90	.75
474 00971	1	1.30	.50	5.39	.84	3.10	2.50	.90	1.25
474 00976	1-1/2	1.50	.63	6.10	1.00	3.50	3.00	1.00	2.25
474 00978	2	1.50	.63	6.50	1.12	3.96	3.00	1.10	2.50
474 00981	3	1.60	.75	7.50	1.45	4.80	3.50	1.35	4.90
474 00986	5	2.30	1.00	9.63	1.80	6.27	4.56	1.60	10.30
474 00991	7-1/2	2.53	1.13	11.36	2.25	7.45	5.00	2.08	19.50
474 00464	10	2.55	1.25	12.25	2.60	8.30	5.62	2.27	23.50
474 99999	15	3.76	1.50	16.70	3.00	10.30	7.10	3.00	47.00

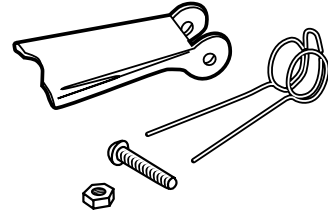
*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

**WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



LATCH KITS

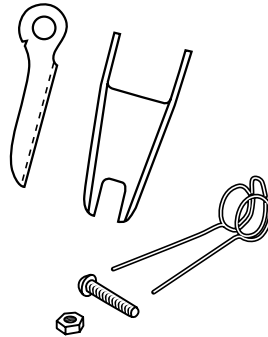
- Zinc plated
- See Warnings “**Hook Latch Kits**” on Page 10 for proper use and selection.



Indusco Part #	For Hook		Weight Each
	Carbon Steel (Tons)	Alloy Steel (Tons)	
528 00001	3/4 to 1	1 to 1-1/2	.02
528 00006	1-1/2 to 2	2-3	.02
528 00011	3	4-1/2	.03
528 00016	5	7	.06
528 00021	7-1/2 to 10	11 to 15	.10
528 00026	15	22	.17
528 00031	20	30	.39
528 00036	25 to 30	37 to 45	.65
528 00041	40	60	1.10

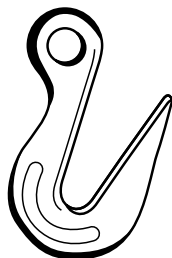
NEW STYLE LATCH KITS

- Zinc plated
- See Warnings “**Hook Latch Kits**” on Page 10 for proper use and selection.



Indusco Part #	For Hook		Weight Each
	Carbon Steel (Tons)	Alloy Steel (Tons)	
528 00053	1	1-1/2	.02
528 00063	2	3	.02
528 00068	3	5	.03
528 00073	5	7	.06
528 00078	7-1/2	11	.10
528 00083	10	15	.10

SORTING HOOKS



- Drop forged.
- Painted finish.

Indusco Part #	Specifications	
474 00476	Working Load Limit at Tip*	2 Ton
	Working Load Limit at Bottom of Hook*	7.5 Ton
	Overall Length	9.69
	Inside Dimension of Eye	1.38
	Opening at the Top of Hook	2.81
	Radius at Bottom of Hook	.63
	Weight (Ea.)	6.25

* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

SNAP HOOKS WITH LATCH



⚠ WARNING

- NOT FOR LIFTING.
- Galvanized.

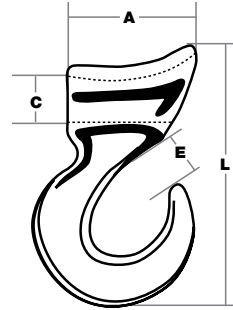
Indusco Part #	Hook Size	Inside Diameter of Eye	Throat Opening	Length Overall	Weight Each	Working Load Limit*
474 00016	7/16	.70	.77	4.30	24.00	750
474 00021	9/16	1.08	.79	4.79	50.00	1,000

* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



SLIDING CHOKER HOOKS

- Cast alloy steel.
- Painted finish.
- See Warnings “**Hoist Hooks**” on Page 6 for proper use and selection.

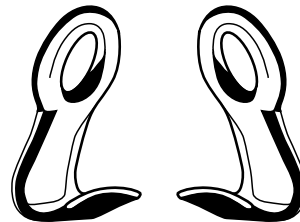


Indusco Part #	Wire Rope Size	A	C	E	L	Weight Each	Working Load Limit*
474 00716	3/8	2.06	.62	.62	4.28	.75	2,500
474 00721	1/2	2.25	.75	.78	4.96	1.25	3,300
474 00726	5/8	3.06	.75	.62	6.37	2.75	5,000
474 00731	3/4	3.37	1.00	1.15	7.65	5.00	8,000
474 00736	7/8 to 1	4.15	1.84	2.37	9.60	18.50	15,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

BARREL HOOKS

- Drop forged.
- Available as galvanized or self-colored.
- Sold in pairs only.
- See Warnings “**Hoist Hooks**” on Page 6 for proper use and selection.

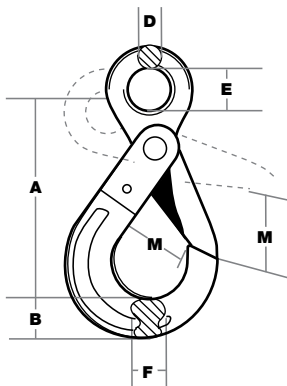


Indusco Part #	Specifications	
474 00026	Inside Diameter of Eye	1.56
	Outside Diameter of Eye	2.81
	Overall Length	5.00
	Width of Lip	2.88
	Weight per Pair	3.25
	Working Load Limit*	1 Ton

* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



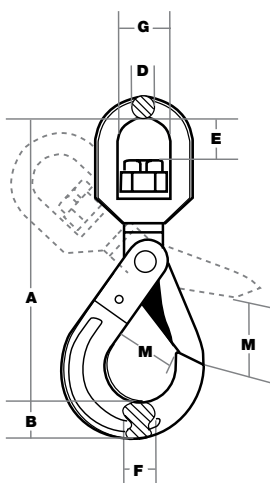
EYE SELF-LOCKING HOOKS



- Drop forged.
- Grade 80 steel.
- Painted finish.
- See Warnings “**Hoist Hooks**” on Page 6 for proper use and selection.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.

Indusco Part #	Chain Size	A	B	D	E	F	M	Weight Each	Working Load Limit*
474 00802	1/4	4.33	.75	.39	.83	.59	1.14	1.1	2,100
474 00807	9/32	5.35	.94	.44	.98	.79	1.34	1.8	4,500
474 00822	3/8	6.57	1.19	.51	1.26	1.02	1.77	3.2	7,100
474 00837	1/2	8.15	1.57	.62	1.56	1.19	2.13	6.5	12,000
474 00852	5/8	9.92	1.93	.83	2.05	1.42	2.44	12.6	18,100
474 99999	3/4	11.10	2.36	.91	2.52	1.91	3.54	18.7	28,300

* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



SWIVEL SELF-LOCKING HOOKS

- Drop forged.
- Grade 80 steel.
- Painted finish.
- See Warnings “**Hoist Hooks**” on Page 6 for proper use and selection.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.

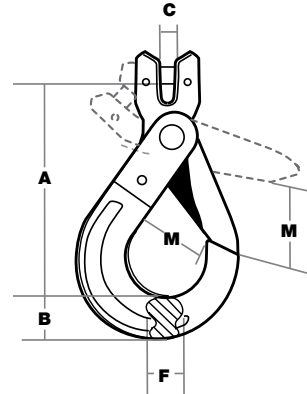
Indusco Part #	Chain Size	A	B	D	E	F	G	M	Weight Each	Working Load Limit*
474 00814	1/4	5.86	.75	.44	.87	.59	1.26	1.14	1.5	2,100
474 00812	9/32	7.32	.94	.51	1.14	.78	1.42	1.34	2.6	4,500
474 00827	3/8	8.66	1.19	.62	1.34	1.02	1.63	1.77	4.3	7,100
474 00842	1/2	10.51	1.57	.83	1.70	1.19	1.81	2.09	9.0	12,000
474 99999	5/8	12.91	1.93	.91	1.97	1.42	2.36	2.44	15.9	18,100
474 99999	3/4	15.28	2.36	1.02	3.23	1.91	2.91	3.54	24.9	28,300

* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



CLEVIS SELF-LOCKING HOOKS

- Drop forged.
- Grade 80 steel.
- Painted finish.
- See Warnings “**Hoist Hooks**” on Page 6 for proper use and selection.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.

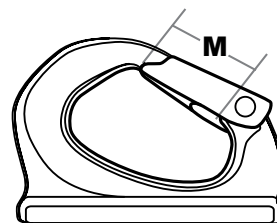


Indusco Part #	Chain Size	A	B	C	F	M	Weight Each	Working Load Limit*
474 99999	1/4	3.94	.75	.24	.59	1.14	1.1	2,100
474 00817	9/32	4.69	.94	.35	.79	1.34	1.7	4,500
474 00832	3/8	5.63	1.19	.43	1.02	1.77	3.2	7,100
474 00847	1/2	7.05	1.57	.55	1.19	2.13	6.5	12,000
474 00857	5/8	8.35	1.93	.71	1.42	2.44	12.4	18,100
474 99999	3/4	9.56	2.36	.83	1.91	3.54	19.5	28,300

* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

WELD ON HOOKS

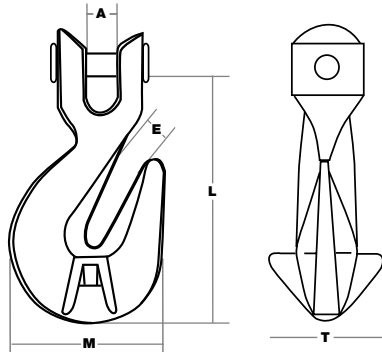
- Alloy steel.
- Painted finish.
- Replacement latches available.
- See Warnings “**Hoist Hooks**” on Page 6 for proper use and selection.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.



Indusco Part #	M	Weight Each	Working Load Limit*	Replacement Latch Kit
474 01400	1.14	3.2	3 Ton	528 00280
474 01405	2.96	5.8	5 Ton	528 00285
474 01411	2.96	7.7	8 Ton	528 00290
474 01416	3.88	12.6	10 Ton	528 00295

* ULTIMATE LOAD LIMIT IS 5 TIMES WORKING LOAD LIMIT

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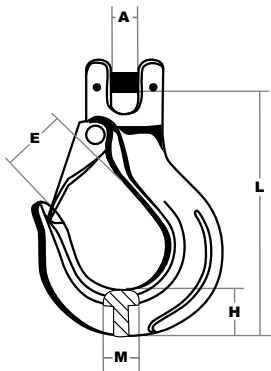


ALLOY CLEVIS GRAB HOOKS WITH CRADLE

- Drop forged.
- Grade 80 steel.
- Painted finish.
- See Warnings “**Hoist Hooks**” on Page 6 for proper use and selection.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.

Indusco Part #	Chain Size	Dimensions					Weight Each	Working Load Limit*
		A	E	L	M	T		
474 99999	7/32	.29	.31	3.07	1.79	.98	.40	2,100
474 00161	1/4	.35	.43	4.25	2.48	1.18	.60	3,500
474 00163	5/16	.47	.57	5.0	3.16	1.18	.60	3,500
474 00176	3/8	.59	.63	6.42	3.94	1.61	1.70	7,100
474 00186	1/2	.69	.79	8.03	4.80	2.09	3.50	12,000
474 00196	5/8	.91	.91	9.57	5.93	2.28	6.30	18,100
474 00201	3/4	1.0	1.02	11.02	6.65	3.86	11.00	28,300

* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



ALLOY CLEVIS SLING HOOKS WITH LATCH

- Drop forged.
- Grade 80 steel.
- Painted finish.
- See Warnings “**Hoist Hooks**” on Page 6 for proper use and selection.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.

Indusco Part #	Chain Size	Dimensions					Weight Each	Working Load Limit*
		A	E	H	L	M		
474 99999	7/32	.29	.77	.79	4.25	2.68	.60	2,100
474 00296	1/4 - 5/16	.37	.94	1.08	5.16	3.44	1.10	4,500
474 00301	3/8	.51	1.10	1.42	6.44	4.17	2.60	7,100
474 00306	1/2	.65	1.36	1.64	7.72	5.12	5.10	12,000
474 00308	5/8	.73	1.69	1.90	9.37	6.12	8.10	18,100
474 00316	3/4	.94	2.03	2.01	11.06	7.09	14.30	28,300

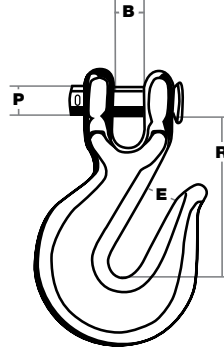
* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



CLEVIS GRAB CHAIN HOOKS

WARNING

- **NOT FOR OVERHEAD LIFTING.**
- Drop forged.
- Grade 40 and 70 steel.
- See Warnings “**Grab/Slip Hooks**” on Page 8 for proper use and selection.

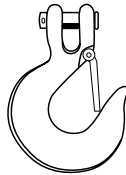
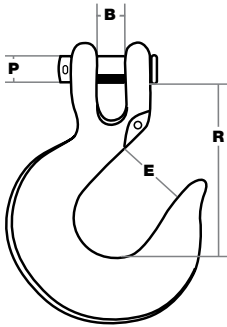


Indusco Part #	Chain Size	B	E	P	R	Weight Each	Working Load Limit*
HIGH TEST - GRADE 40 - SELF-COLORED							
474 00046	1/4	.43	.34	.37	1.81	.36	2,600
474 00056	5/16	.50	.43	.37	2.15	.63	3,900
474 00061	3/8	.59	.50	.43	2.46	1.00	5,400
474 00071	7/16	.65	.56	.56	2.78	1.60	7,200
474 00076	1/2	.75	.65	.62	3.21	2.01	9,200
474 00081	5/8	.90	.78	.75	4.09	4.25	12,750
474 00086	3/4	.93	.93	.87	4.62	7.19	18,500
HIGH TEST - GRADE 40 - ZINC PLATED							
474 00091	1/4	.43	.34	.37	1.81	.36	2,600
474 00096	5/16	.50	.43	.37	2.15	.63	3,900
474 00101	3/8	.59	.50	.43	2.46	1.00	5,400
474 00106	1/2	.75	.65	.62	3.21	2.01	9,200
TRANSPORT - GRADE 70 - YELLOW CHROMATE							
474 00111	1/4	.43	.34	.37	1.81	.36	3,150
474 00116	5/16	.50	.43	.37	2.15	.63	4,700
474 00126	3/8	.59	.50	.43	2.46	1.00	6,600
474 00121	1/2	.75	.65	.62	3.21	2.01	11,300

* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



CLEVIS SLIP CHAIN HOOKS



With latch

! WARNING

- **NOT FOR OVERHEAD LIFTING.**
- Drop forged.
- Grade 40 and 70 steel.
- See Warnings "**Grab/Slip Hooks**" on Page 8 for proper use and selection.

Indusco Part #	Chain Size	B	E	P	R	Weight Each	Working Load Limit*
HIGH TEST - GRADE - 40 SELF-COLORED							
474 00246	1/4	.40	.93	.37	2.56	0.44	1,950
474 00256	5/16	.43	1.06	.43	2.71	0.75	2,875
474 00261	3/8	.47	1.31	.46	3.25	1.13	4,000
474 00266	7/16	.56	1.56	.56	3.65	2.06	5,000
474 00271	1/2	.75	1.68	.62	4.00	2.75	6,500
474 00276	5/8	.81	2.00	.75	4.93	5.00	9,250
HIGH TEST - GRADE 40 - ZINC PLATED - WITH LATCHES							
474 00288	5/16	.40	1.06	.43	2.71	0.75	2,875
474 00291	3/8	.59	1.31	.46	3.25	1.13	4,000
TRANSPORT - GRADE 70 - YELLOW CHROMATE - WITH LATCHES							
474 00292	1/4	.40	.93	.37	2.56	.44	2,750
474 00294	5/16	.43	1.06	.43	2.71	.75	4,300
474 99999	3/8	.47	1.31	.46	3.25	1.35	5,250

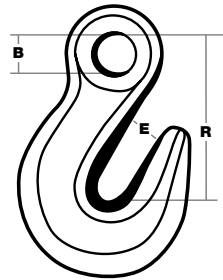
* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



EYE GRAB HOOKS

! WARNING

- **NOT FOR OVERHEAD LIFTING.**
- Drop forged.
- Grade 40 carbon Steel.
- Self-colored.
- See Warnings “**Grab/Slip Hooks**” on Page 8 for proper use and selection.



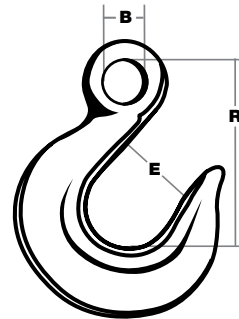
Indusco Part #	Chain Size	B	E	R	Weight Each	Working Load Limit*
474 00206	1/4	.50	.34	1.96	.28	2,600
474 00211	5/16	.56	.43	2.25	.45	3,900
474 00216	3/8	.67	.50	2.56	.79	5,400
474 00226	1/2	.87	.67	3.37	1.75	9,200
474 00231	5/8	1.06	.78	4.09	3.25	12,750
474 00236	3/4	1.37	.93	5.15	5.94	18,500

* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

EYE SLIP HOOKS

! WARNING

- **NOT FOR OVERHEAD LIFTING.**
- Drop forged.
- Grade 40 carbon Steel.
- Self-colored.
- See Warnings “**Grab/Slip Hooks**” on Page 8 for proper use and selection.

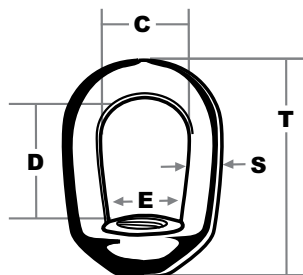


Indusco Part #	Chain Size	B	E	R	Weight Each	Working Load Limit*
474 00321	1/4	.50	.93	2.53	.40	1,950
474 00326	5/16	.62	1.06	2.90	.70	2,875
474 00331	3/8	.71	1.31	3.31	1.00	4,000
474 00336	7/16	.81	1.56	3.87	1.56	5,000
474 00341	1/2	.93	1.68	4.28	2.31	6,500
474 00346	5/8	1.12	2.00	5.21	3.72	9,250
474 00351	3/4	1.37	2.12	5.78	6.56	12,500

* WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1



EYE NUTS



- Drop forged.
- Hot dipped galvanized body.
- Threads are tapped after galvanizing.
- UNC thread.

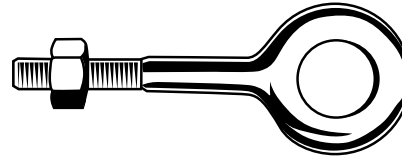
Indusco Part #	Size No.	Std. Tap M	C	D	E	S	T	Weight Each	Working Load Limit*
603 00001	1	1/4	.75	1.06	.65	.25	1.68	.10	520
603 00006	1A	5/16	.75	1.06	.65	.25	1.68	.10	850
603 00011	2	3/8	1.00	1.25	.75	.31	2.06	.20	1,250
603 00016	3	7/16	1.25	1.50	1.00	.37	2.50	.31	1,700
603 00021	3A	1/2	1.25	1.50	1.00	.37	2.50	.31	2,250
603 00026	4	5/8	1.50	2.00	1.18	.50	3.18	.55	3,600
603 00031	5	3/4	1.75	2.37	1.37	.62	3.87	1.00	5,200
603 00036	6	7/8	2.00	2.62	1.62	.75	4.31	1.55	7,200
603 00041	7	1	2.25	3.06	1.87	.87	5.06	2.75	10,000
603 00048	8	1-1/4	2.50	3.50	1.93	1.00	5.75	3.87	15,500

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



REGULAR EYEBOLTS

- Drop forged.
- Hot dipped galvanized or stainless steel.
- Furnished with standard hex nuts.
- See Warnings “**Eyebolts**” on Page 10 for proper use and selection.



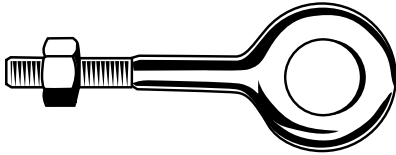
Indusco Part #	Shank Diameter and Length	Length of Thread	Eye Inside Dimension	Eye Outside Dimension	Weight Each	Working Load Limit*
GALVANIZED						
365 00001	1/4 x 2	1.5	.50	1.00	.07	500
365 00006	1/4 x 4	2.5	.50	1.00	.12	500
365 00011	5/16 x 2-1/4	1.5	.62	1.25	.13	800
365 00016	5/16 x 4-1/4	2.5	.62	1.25	.20	800
365 00021	3/8 x 2-1/2	1.5	.75	1.50	.24	1,200
365 00026	3/8 x 4-1/2	2.5	.75	1.50	.31	1,200
365 00031	3/8 x 6	2.5	.75	1.50	.35	1,200
365 00036	1/2 x 3-1/4	1.5	1.00	2.00	.55	2,200
365 00046	1/2 x 6	3	1.00	2.00	.74	2,200
365 00051	1/2 x 8	3	1.00	2.00	.78	2,200
365 00056	1/2 x 10	3	1.00	2.00	.88	2,200
365 00061	1/2 x 12	3	1.00	2.00	1.05	2,200
365 00066	5/8 x 4	2	1.25	2.50	1.01	3,500
365 00071	5/8 x 6	3	1.25	2.50	1.15	3,500
365 00076	5/8 x 8	3	1.25	2.50	1.31	3,500
365 00081	5/8 x 10	3	1.25	2.50	1.52	3,500
365 00086	5/8 x 12	4	1.25	2.50	1.86	3,500
365 00091	5/8 x 15	5	1.25	2.50	2.00	3,500
365 00096	5/8 x 18	5	1.25	2.50	2.10	3,500
365 00101	5/8 x 21	5.5	1.25	2.50	2.40	3,500
365 00106	5/8 x 24	5.5	1.25	2.50	2.65	3,500
365 00111	3/4 x 4-1/2	2	1.50	3.00	1.56	5,200
365 00116	3/4 x 6	3	1.50	3.00	1.84	5,200
365 00121	3/4 x 8	3	1.50	3.00	2.08	5,200
365 00126	3/4 x 10	3	1.50	3.00	2.30	5,200
365 00131	3/4 x 12	4	1.50	3.00	2.52	5,200
365 00136	3/4 x 15	5	1.50	3.00	3.10	5,200
365 00141	7/8 x 5	2.5	1.75	3.50	2.84	7,200

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1.

Continued on next page >>



REGULAR EYEBOLTS (Continued)



- Drop forged.
- Hot dipped galvanized or stainless steel.
- Furnished with standard hex nuts.
- See Warnings “**Eyebolts**” on Page 10 for proper use and selection.

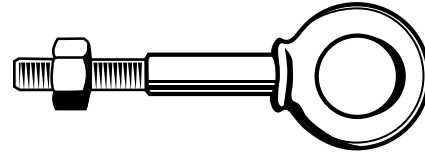
Indusco Part #	Shank Diameter and Length	Length of Thread	Eye Inside Dimension	Eye Outside Dimension	Weight Each	Working Load Limit*
GALVANIZED						
365 00146	7/8 x 8	4	1.75	3.50	3.20	7,200
365 00151	7/8 x 12	4	1.75	3.50	3.87	7,200
365 00161	1 x 6	3	2.00	4.00	3.85	10,000
365 00166	1 x 9	4	2.00	4.00	4.52	10,000
365 00171	1 x 12	4	2.00	4.00	5.26	10,000
365 00156	1 x 18	7	2.00	4.00	6.67	10,000
365 00176	1-1/4 x 8	4	2.50	5.00	7.50	15,200
365 00181	1-1/4 x 12	4	2.50	5.00	9.00	15,200
365 00186	1-1/4 x 20	6	2.50	5.00	12.09	15,200
STAINLESS STEEL (TYPE 316)						
365 00191	1/4 x 2	1.5	.50	1.00	.09	500
365 00196	1/4 x 4	2.5	.50	1.00	.12	500
365 00201	5/16 x 2-1/4	1.5	.62	1.25	.16	800
365 00206	5/16 x 4-1/4	2.5	.62	1.25	.17	800
365 00211	3/8 x 2-1/2	1.5	.75	1.50	.24	1,200
365 00216	3/8 x 4-1/2	2.5	.75	1.50	.30	1,200
365 00221	1/2 x 3-1/4	1.5	1.00	2.00	.54	2,200
365 00226	1/2 x 6	3	1.00	2.00	.69	2,200
365 00231	5/8 x 4	2	1.25	2.50	1.04	3,500
365 00236	5/8 x 6	3	1.25	2.50	1.15	3,500
365 00241	3/4 x 4-1/2	2	1.50	3.00	1.65	5,200
365 00246	3/4 x 6	3	1.50	3.00	1.38	5,200

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



SHOULDER EYEBOLTS

- Drop forged.
- Hot dipped galvanized or stainless steel.
- Furnished with standard hex nuts.
- See Warnings “**Eyebolts**” on Page 10 for proper use and selection.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.



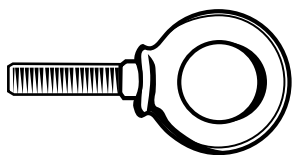
Indusco Part #	Shank Diameter and Length	Length of Thread	Eye Inside Dimension	Eye Outside Dimension	Weight Each	Working Load Limit*
GALVANIZED						
365 00251	1/4 x 2	1.5	.50	.87	.07	500
365 00256	1/4 x 4	2.5	.50	.87	.10	500
365 00261	5/16 x 2-1/4	1.5	.62	1.12	.12	800
365 00266	5/16 x 4-1/4	2.5	.62	1.12	.17	800
365 00271	3/8 x 2-1/2	1.5	.75	1.37	.21	1,200
365 00276	3/8 x 4-1/2	2.5	.75	1.37	.28	1,200
365 00281	1/2 x 3-1/4	1.5	1.00	1.75	.42	2,200
365 00286	1/2 x 6	3	1.00	1.75	.59	2,200
365 00291	5/8 x 4	2	1.25	2.25	.83	3,500
365 00296	5/8 x 6	3	1.25	2.25	1.00	3,500
365 00301	3/4 x 4-1/2	2	1.50	2.75	1.54	5,200
365 00306	3/4 x 6	3	1.50	2.75	1.77	5,200
365 00311	7/8 x 5	2.5	1.75	3.25	2.23	7,200
365 00316	7/8 x 8	4	1.75	3.25	2.66	7,200
365 00321	1 x 6	3	2.00	3.75	3.56	10,000
365 00326	1 x 9	4	2.00	3.75	4.20	10,000
365 00331	1-1/2 x 15	6	2.50	5.50	14.25	21,400
STAINLESS STEEL (TYPE 316)						
365 00426	1/4 x 2	1.5	.50	.87	.09	460
365 00431	1/4 x 4	2.5	.50	.87	.12	460
365 00436	5/16 x 2-1/4	1.5	.62	1.12	.16	780
365 00441	5/16 x 4-1/4	2.5	.62	1.12	.17	780
365 00446	3/8 x 2-1/2	1.5	.75	1.37	.24	1,160
365 00451	3/8 x 4-1/2	2.5	.75	1.37	.30	1,160
365 00456	1/2 x 3-1/4	1.5	1.00	1.75	.54	2,150
365 00461	1/2 x 6	3	1.00	1.75	.69	2,150
365 00466	5/8 x 4	2	1.25	2.25	1.04	3,440
365 00471	5/8 x 6	3	1.25	2.25	1.25	3,440
365 00476	3/4 x 4-1/2	2	1.50	2.75	1.65	5,140
365 00481	3/4 x 6	3	1.50	2.75	1.80	5,140

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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MACHINE EYEBOLTS

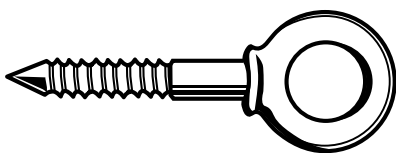


- Self-colored.
- Shoulder or Regular Pattern.
- See Warnings “**Eyebolts**” on Page 10 for proper use and selection.

Indusco Part #	Shank Diameter	Shank Length	Eye Inside Dimension	Eye Outside Dimension	Weight Each	Working Load Limit*
365 00366	1/4	1	.75	1.25	.05	500
365 00371	5/16	1-1/8	.87	1.50	.08	900
365 00376	3/8	1-1/4	1.00	1.65	.14	1,300
365 00381	7/16	1-3/8	1.09	1.84	.19	2,000
365 00386	1/2	1-1/2	1.18	2.06	.30	2,400
365 00391	9/16	1-5/8	1.28	2.28	.47	3,200
365 00396	5/8	1-3/4	1.37	2.50	.60	4,000
365 00401	3/4	2	1.50	2.81	.90	5,000
365 00406	7/8	2-1/4	1.68	3.25	1.3	7,000
365 00411	1	2-1/2	1.81	3.56	2.0	9,000
365 00416	1-1/4	3	2.18	4.43	4.0	15,000
365 00421	1-1/2	3-1/2	2.50	5.18	7.0	21,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

GALVANIZED SCREW EYEBOLTS



⚠ WARNING

- **NEVER USE FOR LIFTING.**
- Drop forged.
- Hot dipped galvanized.
- See Warnings “**Eyebolts**” on Page 10 for proper use and selection.

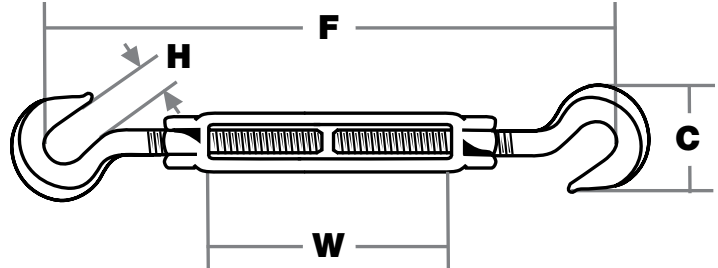
Indusco Part #	Shank Diameter and Length	Eye Inside Dimension	Weight Each
365 00336	1/4 x 2	1/2	.05
365 00341	5/16 x 2-1/4	5/8	.09
365 00346	3/8 x 2-1/2	3/4	.17
365 00351	1/2 x 3-1/4	1	.33
365 00356	5/8 x 4	1-1/4	.66
365 00361	3/4 x 4-1/2	1-1/2	1.23

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HOOK & HOOK TURNBUCKLES

- Drop forged.
- Hot dipped galvanized.
- Meets design and performance requirements of ASTM F 1145 Class E.
- See Warnings “Turnbuckles” on Page 8 for proper use and selection.

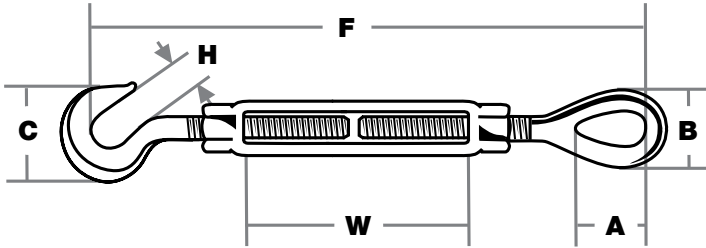


Indusco Part #	Threaded Dia. x Take-up (inches)	C	F Closed	H	W	Weight Each	Working Load Limit*
939 00001	1/4 x 4	1.27	7.12	.45	4.00	.30	400
939 00036	5/16 x 4-1/2	1.50	8.31	.50	4.50	.63	700
939 00081	3/8 x 6	1.77	10.50	.56	6.00	.79	1,000
939 00131	1/2 x 6	2.28	11.82	.66	6.00	1.42	1,500
939 00161	1/2 x 9	2.28	14.82	.66	9.00	1.83	1,500
939 00186	1/2 x 12	2.28	17.82	.66	12.00	2.01	1,500
939 00221	5/8 x 6	2.81	13.25	.90	6.00	2.61	2,250
939 00251	5/8 x 9	2.81	16.25	.90	9.00	2.81	2,250
939 00276	5/8 x 12	2.81	19.25	.90	12.00	3.12	2,250
939 00311	3/4 x 6	3.33	14.88	.98	6.00	3.89	3,000
939 00341	3/4 x 9	3.33	17.88	.98	9.00	4.68	3,000
939 00371	3/4 x 12	3.33	20.88	.98	12.00	5.70	3,000
939 00401	3/4 x 18	3.33	26.88	.98	18.00	7.25	3,000
939 00446	7/8 x 12	3.78	22.25	1.13	12.00	8.10	4,000
939 00471	7/8 x 18	3.78	28.25	1.13	18.00	9.95	4,000
939 00492	1 x 6	4.25	17.63	1.25	6.00	9.33	5,000
939 00506	1 x 12	4.25	23.63	1.25	12.00	11.45	5,000
939 00536	1 x 18	4.25	29.63	1.25	18.00	13.20	5,000
939 00566	1 x 24	4.25	35.63	1.25	24.00	15.9	5,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



HOOK & EYE TURNBUCKLES



- Drop forged.
- Hot dipped galvanized.
- Meets design and performance requirements of ASTM F 1145 Class F.
- See Warnings “Turnbuckles” on Page 8 for proper use and selection.

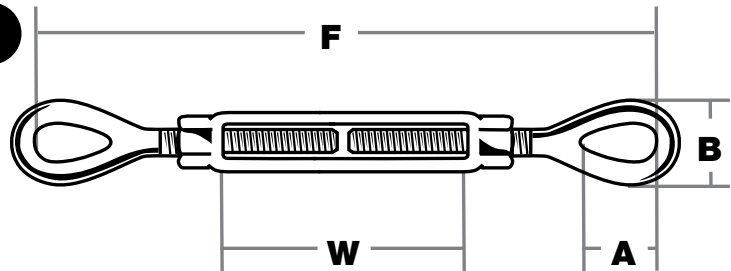
Indusco Part #	Threaded Dia. x Take-up (inches)	A	B	C	F Closed	H	W	Weight Each	Working Load Limit*
939 00006	1/4 x 4	.78	.34	1.27	7.81	.45	4.00	.30	400
939 00041	5/16 x 4-1/2	.94	.44	1.50	9.38	.50	4.50	.63	700
939 00086	3/8 x 6	1.12	.53	1.77	11.63	.56	6.00	.79	1,000
939 00136	1/2 x 6	1.44	.72	2.28	13.13	.66	6.00	1.42	1,500
939 00166	1/2 x 9	1.44	.72	2.28	16.13	.66	9.00	1.83	1,500
939 00191	1/2 x 12	1.44	.72	2.28	19.13	.66	12.00	2.01	1,500
939 00226	5/8 x 6	1.75	.88	2.81	14.56	.90	6.00	2.61	2,250
939 00256	5/8 x 9	1.75	.88	2.81	17.56	.90	9.00	2.81	2,250
939 00281	5/8 x 12	1.75	.88	2.81	20.56	.90	12.00	3.12	2,250
939 00316	3/4 x 6	2.09	1.00	3.33	16.38	.98	6.00	3.75	3,000
939 00346	3/4 x 9	2.09	1.00	3.33	19.38	.98	9.00	4.68	3,000
939 00376	3/4 x 12	2.09	1.00	3.33	16.38	.98	12.00	5.70	3,000
939 00406	3/4 x 18	2.09	1.00	3.33	28.38	.98	18.00	5.70	3,000
939 00451	7/8 x 12	2.38	1.25	3.78	23.94	1.13	12.00	7.25	4,000
939 00476	7/8 x 18	2.38	1.25	3.78	29.94	1.13	18.00	8.10	4,000
939 00500	1 x 6	3.00	1.44	4.25	19.97	1.25	6.00	9.95	5,000
939 00511	1 x 12	3.00	1.44	4.25	25.81	1.25	12.00	10.40	5,000
939 00541	1 x 18	3.00	1.44	4.25	31.81	1.25	18.00	13.20	5,000
939 00571	1 x 24	3.00	1.44	4.25	37.81	1.25	24.00	15.90	5,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



EYE & EYE TURNBUCKLES

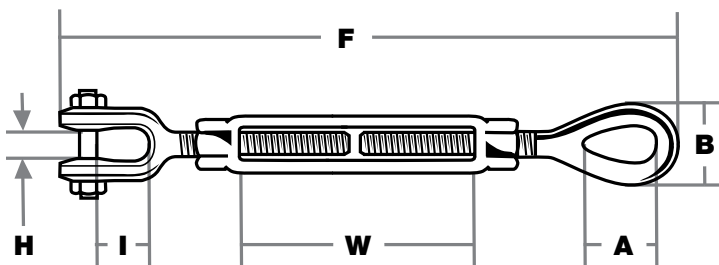
- Drop forged.
- Hot dipped galvanized.
- Meets design and performance requirements of ASTM F 1145 Class D.
- See Warnings “Turnbuckles” on Page 8 for proper use and selection.



Indusco Part #	Threaded Dia. x Take-up (inches)	A	B	F Closed	W	Weight Each	Working Load Limit*
939 00011	1/4 x 4	.78	.34	7.80	4.00	.30	500
939 00046	5/16 x 4-1/2	.94	.44	9.06	4.50	.63	800
939 00091	3/8 x 6	1.12	.53	11.47	6.00	.79	1,200
939 00141	1/2 x 6	1.44	.72	13.08	6.00	1.42	2,200
939 00171	1/2 x 9	1.44	.72	16.08	9.00	1.83	2,200
939 00196	1/2 x 12	1.44	.72	19.08	12.00	2.01	2,200
939 00231	5/8 x 6	1.75	.88	14.68	6.00	2.61	3,500
939 00261	5/8 x 9	1.75	.88	17.68	9.00	2.81	3,500
939 00286	5/8 x 12	1.75	.88	20.68	12.00	3.12	3,500
939 00321	3/4 x 6	2.09	1.00	16.38	6.00	3.75	5,200
939 00351	3/4 x 9	2.09	1.00	19.38	9.00	4.68	5,200
939 00381	3/4 x 12	2.09	1.00	22.38	12.00	5.07	5,200
939 00411	3/4 x 18	2.09	1.00	28.38	18.00	7.00	5,200
939 00456	7/8 x 12	2.38	1.25	23.32	12.00	8.10	7,200
939 00481	7/8 x 18	2.38	1.25	29.32	18.00	9.95	7,200
939 00494	1 x 6	3.00	1.44	19.97	6.00	9.04	10,000
939 00516	1 x 12	3.00	1.44	25.97	12.00	10.40	10,000
939 00546	1 x 18	3.00	1.44	31.97	18.00	13.20	10,000
939 00576	1 x 24	3.00	1.44	37.97	24.00	15.90	10,000
939 00606	1-1/4 x 12	3.56	1.81	28.31	12.00	16.50	15,200
939 00621	1-1/4 x 18	3.56	1.81	34.31	18.00	23.00	15,200
939 00641	1-1/4 x 24	3.56	1.81	40.31	24.00	25.00	15,200
939 00661	1-1/2 x 12	4.06	2.12	30.50	12.00	27.00	21,400
939 00681	1-1/2 x 18	4.06	2.12	36.50	18.00	31.00	21,400
939 00696	1-1/2 x 24	4.06	2.12	42.50	24.00	38.20	21,400
939 00711	1-3/4 x 18	4.62	2.38	39.38	18.00	53.00	28,000
939 00726	1-3/4 x 24	4.62	2.38	45.38	24.00	58.00	28,000
939 00741	2 x 24	5.75	2.69	51.69	24.00	88.00	37,000
939 00756	2-1/2 x 24	6.50	3.12	54.62	24.00	144.00	60,000
939 00771	2-3/4 x 24	7.00	3.25	57.00	24.00	183.00	75,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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JAW & EYE TURNBUCKLES

- Drop forged.
- Hot dipped galvanized.
- Jaw on sizes 1/4" to 5/8" are fitted with nuts and bolts. 3/4" and larger are fitted with pin and cotter.
- Meets design and performance requirements of ASTM F 1145 Class H.
- See Warnings "Turnbuckles" on Page 8 for proper use and selection.

Indusco Part #	Threaded Dia. x Take-up	A	B	F Closed	H	I	W	Weight Each	Working Load Limit*
939 00016	1/4 x 4	.78	.34	7.35	.45	.62	4.00	.32	500
939 00051	5/16 x 4-1/2	.94	.44	8.71	.50	.72	4.50	.47	800
939 00096	3/8 x 6	1.12	.53	10.81	.54	.87	6.00	.86	1,200
939 00146	1/2 x 6	1.44	.72	12.29	.65	1.06	6.00	1.54	2,200
939 00176	1/2 x 9	1.44	.72	15.29	.65	1.06	9.00	1.95	2,200
939 00201	1/2 x 12	1.44	.72	18.29	.65	1.06	12.00	2.19	2,200
939 00236	5/8 x 6	1.75	.88	13.74	.79	1.31	6.00	2.81	3,500
939 00266	5/8 x 9	1.75	.88	16.74	.79	1.31	9.00	3.01	3,500
939 00291	5/8 x 12	1.75	.88	19.74	.79	1.31	12.00	3.32	3,500
939 00326	3/4 x 6	2.09	1.00	15.19	.94	1.50	6.00	4.00	5,200
939 00356	3/4 x 9	2.09	1.00	18.19	.94	1.50	9.00	4.98	5,200
939 00386	3/4 x 12	2.09	1.00	21.19	.94	1.50	12.00	5.36	5,200
939 00416	3/4 x 18	2.09	1.00	27.19	.94	1.50	18.00	7.00	5,200
939 00461	7/8 x 12	2.38	1.25	22.34	1.13	1.75	12.00	8.75	7,200
939 00486	7/8 x 18	2.38	1.25	28.34	1.13	1.75	18.00	10.60	7,200
939 00495	1 x 6	3.00	1.44	18.34	1.34	2.06	6.00	8.92	10,000
939 00521	1 x 12	3.00	1.44	24.34	1.34	2.06	12.00	11.20	10,000
939 00551	1 x 18	3.00	1.44	30.34	1.34	2.06	18.00	14.10	10,000
939 00581	1 x 24	3.00	1.44	36.34	1.34	2.06	24.00	16.80	10,000
939 00611	1-1/4 x 12	3.56	1.81	26.82	1.75	2.81	12.00	20.00	15,200
939 00626	1-1/4 x 18	3.56	1.81	32.82	1.75	2.81	18.00	24.20	15,200
939 00647	1-1/4 x 24	3.56	1.81	38.82	1.75	2.81	24.00	28.10	15,200
939 00666	1-1/2 x 12	4.06	2.12	28.50	2.06	2.81	12.00	30.00	21,400
939 00686	1-1/2 x 18	4.06	2.12	34.50	2.06	2.81	18.00	35.00	21,400
939 00701	1-1/2 x 24	4.06	2.12	40.50	2.06	2.81	24.00	44.20	21,400
939 00716	1-3/4 x 18	4.62	2.38	37.38	2.60	3.38	18.00	53.80	28,000
939 00731	1-3/4 x 24	4.62	2.38	43.38	2.60	3.38	24.00	61.00	28,000
939 00746	2 x 24	5.75	2.69	48.62	2.62	3.69	24.00	91.00	37,000
939 00761	2-1/2 x 24	6.50	3.12	51.80	3.06	4.44	24.00	150.00	60,000
939 00776	2-3/4 x 24	7.00	3.25	53.88	3.68	4.19	24.00	195.00	75,000

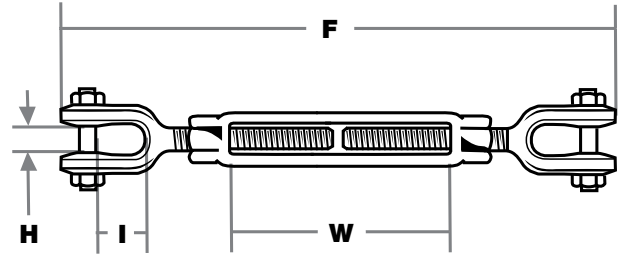
*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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JAW & JAW TURNBUCKLES

- Drop forged.
- Hot dipped galvanized.
- Jaws on sizes 1/4" to 5/8" are fitted with nuts and bolts. 3/4" and larger are fitted with pin and cotter.
- Meets design and performance requirements of ASTM F 1145 Class G.
- See Warnings "Turnbuckles" on Page 8 for proper use and selection.



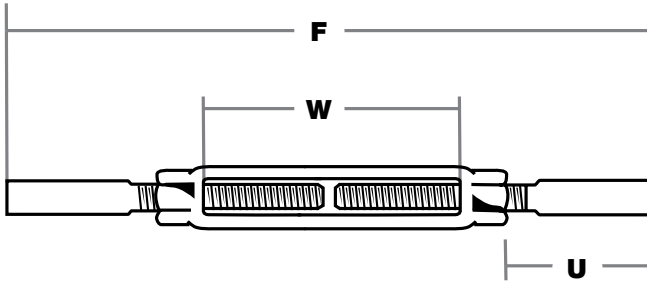
Indusco Part #	Threaded Dia. x Take-up	F Closed	H	I	W	Weight Each	Working Load Limit*
939 00031	1/4 x 4	6.90	.45	.62	4.00	.35	500
939 00056	5/16 x 4-1/2	8.36	.50	.87	4.50	.52	800
939 00101	3/8 x 6	10.14	.54	.87	6.00	.93	1,200
939 00151	1/2 x 6	11.50	.65	1.06	6.00	1.66	2,200
939 00181	1/2 x 9	14.50	.65	1.06	9.00	2.07	2,200
939 00206	1/2 x 12	17.50	.65	1.06	12.00	2.37	2,200
939 00241	5/8 x 6	12.80	.79	1.31	6.00	3.02	3,500
939 00271	5/8 x 9	15.80	.79	1.31	9.00	3.22	3,500
939 00296	5/8 x 12	18.80	.79	1.31	12.00	3.53	3,500
939 00331	3/4 x 6	14.00	.94	1.50	6.00	4.11	5,200
939 00361	3/4 x 9	17.00	.94	1.50	9.00	5.27	5,200
939 00391	3/4 x 12	20.00	.94	1.50	12.00	5.65	5,200
939 00421	3/4 x 18	26.00	.94	1.50	18.00	7.50	5,200
939 00466	7/8 x 12	21.36	1.13	1.75	12.00	9.40	7,200
939 00491	7/8 x 18	27.36	1.13	1.75	18.00	11.20	7,200
939 00496	1 x 6	16.72	1.34	2.06	6.00	10.18	10,000
939 00526	1 x 12	22.72	1.34	2.06	12.00	12.10	10,000
939 00556	1 x 18	28.72	1.34	2.06	18.00	14.90	10,000
939 00586	1 x 24	34.72	1.34	2.06	24.00	17.60	10,000
939 00616	1-1/4 x 12	25.34	1.75	2.81	12.00	21.50	15,200
939 00631	1-1/4 x 18	31.34	1.75	2.81	18.00	24.30	15,200
939 00646	1-1/4 x 24	37.34	1.75	2.81	24.00	31.20	15,200
939 00671	1-1/2 x 12	26.50	2.06	2.81	12.00	33.00	21,400
939 00691	1-1/2 x 18	32.50	2.06	2.81	18.00	36.80	21,400
939 00706	1-1/2 x 24	38.50	2.06	2.81	24.00	44.20	21,400
939 00721	1-3/4 x 18	35.38	2.60	3.38	18.00	55.00	28,000
939 00726	1-3/4 x 24	41.38	2.60	3.38	24.00	64.00	28,000
939 00741	2 x 24	45.54	2.62	3.69	24.00	94.30	37,000
939 00756	2-1/2 x 24	48.98	3.06	4.44	24.00	165.00	60,000
939 00771	2-3/4 x 24	50.75	3.63	4.19	24.00	198.00	75,000

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1

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STUB END TURNBUCKLES



- Drop forged.
- Self-colored.
- Meets design and performance requirements of ASTM F 1145 Class A.
- Reference American Welding Society for proper welding procedures.
- See Warnings "Turnbuckles" on Page 8 for proper use and selection.

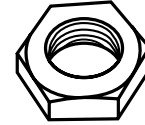
Indusco Part #	Threaded Dia. X Take-up	F Closed	U	W	Weight Each	Working Load Limit
939 00023	1/4 x 4	10.00	2.63	4.00	.30	500
939 00061	5/16 x 4-1/2	11.00	2.78	4.50	.50	800
939 00106	3/8 x 6	16.00	4.44	6.00	.85	1,200
939 00156	1/2 x 6	16.00	4.25	6.00	1.25	2,200
939 00246	5/8 x 6	16.00	4.06	6.00	2.37	3,500
939 00336	3/4 x 6	17.00	4.38	6.00	3.36	5,200
939 00366	3/4 x 9	20.00	4.38	9.00	4.20	5,200
939 00396	3/4 x 12	23.00	4.38	12.00	4.90	5,200
939 00441	7/8 x 6	18.00	4.69	6.00	4.85	7,200
939 00501	1 x 6	19.00	5.00	6.00	6.80	10,000
939 00531	1 x 12	25.00	5.00	12.00	8.80	10,000
939 00591	1 x 24	38.00	7.00	24.00	14.30	10,000
939 00596	1-1/4 x 6	20.00	5.44	6.00	10.20	15,200
939 00676	1-1/2 x 6	20.50	4.38	6.00	15.00	21,000
939 00708	1-3/4 x 6	22.00	4.75	6.00	22.00	28,300
939 00739	2 x 6	23.00	4.75	6.00	24.00	37,200
939 00754	2-1/4 x 6	24.00	5.38	6.00	55.85	48,000
939 00755	2-1/2 x 6	26.00	6.50	6.00	59.30	60,000
939 00783	3 x 6	28.00	7.25	6.00	102.30	96,700

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



TURNBUCKLE LOCK NUTS

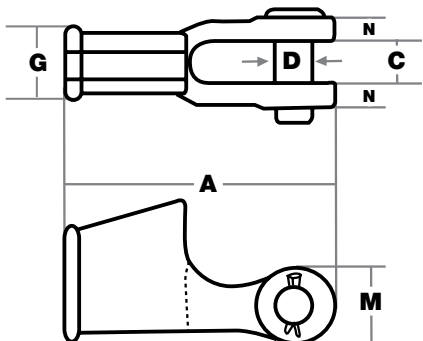
- Hot dipped galvanized.
- For use with galvanized turnbuckles.
- UNC thread.
- Threaded after galvanizing.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.



Indusco Part #	Size Inches	Thread	Weight Each
603 00066	1/4	Right	.01
603 00071	1/4	Left	.01
603 00072	5/16	Right	.01
603 00073	5/16	Left	.01
603 00076	3/8	Right	.01
603 00081	3/8	Left	.01
603 00086	1/2	Right	.03
603 00091	1/2	Left	.03
603 00096	5/8	Right	.05
603 00101	5/8	Left	.05
603 00106	3/4	Right	.08
603 00111	3/4	Left	.08
603 00116	7/8	Right	.11
603 00121	7/8	Left	.11
603 00126	1	Right	.18
603 00131	1	Left	.18
603 00134	1-1/4	Right	.37
603 00135	1-1/4	Left	.37
603 00421	1-1/2	Right	.60
603 00416	1-1/2	Left	.60
603 00431	1-3/4	Right	1.02
603 00426	1-3/4	Left	1.02
603 00441	2	Right	2.25
603 00436	2	Left	2.25
603 00451	2-1/2	Right	3.13
603 00446	2-1/2	Left	3.13
603 00461	2-3/4	Right	3.30
603 00456	2-3/4	Left	3.30



WEDGE SOCKETS



- Cast alloy steel.
- Self-colored, painted finish (Galvanized available upon request).
- Meets performance requirements FED SPEC RR-550-D Type C.
- When attached properly, wedge sockets will meet 80% of the wire ropes rated capacity.

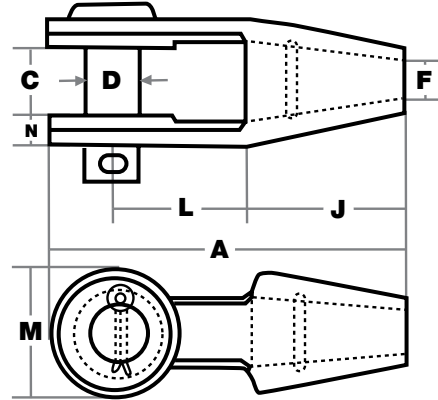
Indusco Part #	Trade Size	A	G	C	D	M	N	Weight Each
787 00309	3/8	5.69	1.38	.81	.81	1.56	.44	3.18
787 00314	1/2	6.88	1.62	1.00	1.00	1.94	.50	5.90
787 00324	5/8	8.25	2.12	1.25	1.19	2.25	.56	9.92
787 00329	3/4	9.88	2.44	1.50	1.38	2.63	.66	15.72
787 00334	7/8	11.25	2.56	1.75	1.63	3.13	.75	24.40
787 00339	1	12.81	2.69	2.00	2.00	3.75	.88	35.18
787 00344	1-1/8	14.38	3.31	2.25	2.25	4.25	1.00	45.30
787 00351	1-1/4	16.34	3.56	2.62	2.50	4.50	1.06	57.50

WEIGHTS AND DIMENSIONS MAY VARY DUE TO MANUFACTURER TOLERANCES



OPEN SPELTER SOCKETS

- Hot dipped galvanized.
- While attaching spelter sockets to wire rope it is extremely important to follow recommended procedures. Such as outlined by the American Iron and Steel Institute.
- Drop forged steel up to 1-1/2 trade size. 1-5/8 and larger are cast alloy steel.
- Meets performance requirements FED SPEC RR-550-D Type A, unless stated otherwise.
- In accordance with ANSI B30.9, all slings terminated with spelter sockets shall be proof-tested.
- When attached properly, these sockets will meet 100% of the wire rope capacity.

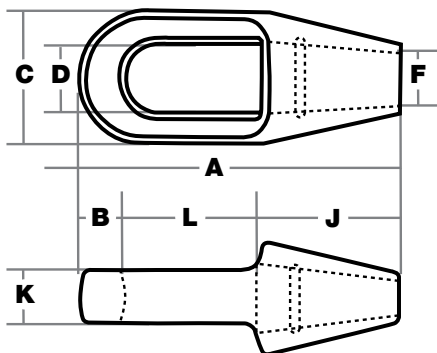


Indusco Part #	Trade Size	A	C	D	F	J	L	M	N	Weight Each
787 00071	1/4	4.56	.75	.69	.38	2.25	1.56	1.31	.36	1.10
787 00076	5/16 to 3/8	4.88	.81	.81	.50	2.25	1.75	1.50	.44	1.30
787 00081	7/16 to 1/2	5.56	1.00	1.00	.56	2.50	2.00	1.88	.50	2.25
787 00086	5/16 to 5/8	6.75	1.25	1.19	.69	3.00	2.50	2.25	.56	4.00
787 00091	3/4	7.94	1.50	1.38	.81	3.50	3.00	2.63	.63	5.80
787 00096	7/8	9.25	1.75	1.63	.94	4.00	3.50	3.13	.75	9.85
787 00101	1	10.56	2.00	2.00	1.13	4.50	4.00	3.75	.88	15.20
787 00106	1-1/8	11.81	2.25	2.25	1.25	5.00	4.50	4.13	1.00	21.50
787 00111	1-1/4 to 1-3/8	13.19	2.50	2.50	1.50	5.50	5.00	4.75	1.13	31.00
787 00116	1-1/2	15.13	3.00	2.75	1.63	6.00	6.00	5.38	1.19	47.25
787 00121	1-5/8	16.25	3.00	3.00	1.75	6.50	6.50	5.75	1.31	53.88
787 00126	1-3/4	18.25	3.50	3.50	2.00	7.50	7.00	6.50	1.56	82.00
787 00131	2 to 2-1/8	21.50	4.00	3.75	2.25	8.50	9.00	7.00	1.81	125.00
787 00136	2-1/4 to 2-3/8	23.50	4.50	4.25	2.50	9.00	10.00	7.75	2.13	167.00
Larger sizes available up to 4"										

WEIGHTS AND DIMENSIONS MAY VARY DUE TO MANUFACTURER TOLERANCES



CLOSED SPELTER SOCKETS



- Hot dipped galvanized.
- While attaching spelter sockets to wire rope, it is extremely important to follow recommended procedures such as outlined by the American Iron and Steel Institute.
- Drop forged up to 1-1/2 trade size. 1-5/8 and larger are cast alloy steel.
- Meets performance requirements FED SPEC RR-550-D Type A, unless stated otherwise.
- In accordance with ANSI B30.9, all slings terminated with spelter sockets shall be proof-tested.
- When attached properly, these sockets will meet 100% of the wire rope rated capacity.

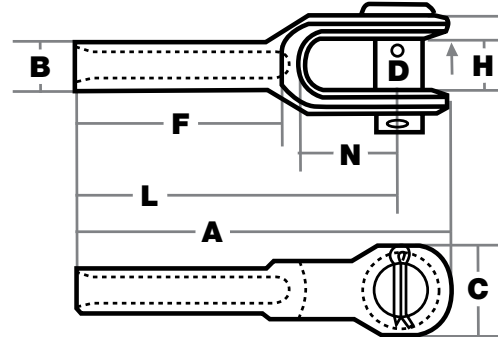
Indusco Part #	Trade Size	A	B	C	D	F	J	K	L	Weight Each
787 00001	1/4	4.50	.50	1.50	.88	.38	2.25	.50	1.75	.50
787 00006	5/16 to 3/8	4.88	.63	1.69	.94	.50	2.25	.69	2.00	1.30
787 00011	7/16 to 1/2	5.44	.69	2.00	1.13	.56	2.50	.88	2.25	1.50
787 00016	9/16 to 5/8	6.31	.81	2.63	1.38	.69	3.00	1.00	2.50	2.50
787 00021	3/4	7.56	1.06	3.00	1.63	.81	3.50	1.25	3.00	4.25
787 00026	7/8	8.75	1.25	3.63	1.88	.94	4.00	1.50	3.50	7.25
787 00031	1	9.88	1.38	4.13	2.25	1.13	4.50	1.75	4.00	10.50
787 00036	1-1/8	11.00	1.50	4.50	2.50	1.25	5.00	2.00	4.50	14.25
787 00043	1-1/4 to 1-3/8	12.13	1.63	5.00	2.75	1.50	5.50	2.25	5.00	19.75
787 00046	1-1/2	13.94	1.94	5.38	3.13	1.63	6.00	2.50	6.00	29.20
787 00051	1-5/8	15.13	2.13	5.75	3.25	1.75	6.50	2.75	6.50	36.00
787 00056	1-3/4	17.25	2.19	6.75	3.75	2.00	7.50	3.00	7.56	57.25
787 00061	2 to 2-1/8	19.87	2.44	7.63	4.38	2.25	8.50	3.25	8.81	79.00
787 00066	2-1/4 to 2-3/8	21.50	2.75	8.50	5.00	2.63	9.00	3.63	9.75	105.00
Larger sizes available up to 4"										

WEIGHTS AND DIMENSIONS MAY VARY DUE TO MANUFACTURER TOLERANCES



OPEN SWAGE SOCKETS

- Self-colored.
- In accordance with ANSI B30.9, all slings terminated with swage sockets shall be proof-tested.
- When attached properly, these sockets will meet 100% of the wire rope rated capacity.

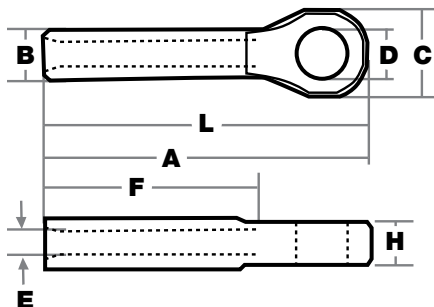


Indusco Part #	Trade Size	A	B	C	D	F	H	L	N	Weight Each
787 00206	1/4	4.78	.50	1.38	.69	2.19	.69	4.00	1.47	.52
787 00211	5/16	6.30	.78	1.62	.81	3.25	.80	5.34	1.67	1.12
787 00216	3/8	6.30	.78	1.62	.81	3.25	.80	5.34	1.67	1.30
787 00218	7/16	7.82	1.01	2.00	1.00	4.31	1.00	6.69	1.96	2.08
787 00221	1/2	7.82	1.01	2.00	1.00	4.31	1.00	6.69	1.96	2.08
787 00223	9/16	9.54	1.27	2.38	1.19	5.38	1.25	8.13	2.21	4.67
787 00226	5/8	9.54	1.27	2.38	1.19	5.38	1.25	8.13	2.21	4.51
787 00231	3/4	11.61	1.56	2.75	1.38	6.44	1.50	10.00	2.69	7.97
787 00236	7/8	13.37	1.72	3.13	1.63	7.50	1.75	11.63	3.20	11.52
787 00241	1	15.47	2.00	3.69	2.00	8.63	2.00	13.38	3.68	17.80
787 00246	1-1/8	17.35	2.25	4.06	2.25	9.75	2.25	15.00	4.18	25.25
787 00251	1-1/4	19.20	2.53	4.50	2.50	10.81	2.50	16.50	4.64	35.56
787 00256	1-3/8	21.10	2.81	5.25	2.50	11.88	2.41	18.13	5.25	43.75
787 00261	1-1/2	23.17	3.08	5.50	2.75	12.94	3.00	19.75	5.70	58.50
787 00266	1-3/4	26.70	3.40	6.25	3.50	15.06	3.50	23.00	6.67	88.75
787 00288	2	31.15	3.94	7.80	3.75	17.06	4.00	26.75	8.19	146.20
Larger sizes available up to 4"										

WEIGHTS AND DIMENSIONS MAY VARY DUE TO MANUFACTURER TOLERANCES



CLOSED SWAGE SOCKETS



- Drop forged.
- Self-colored.
- In accordance with ASME B30.9, all slings terminated with swage sockets shall be proof-tested.
- When attached properly, these swages will meet 100% of the wire rope rated capacity.

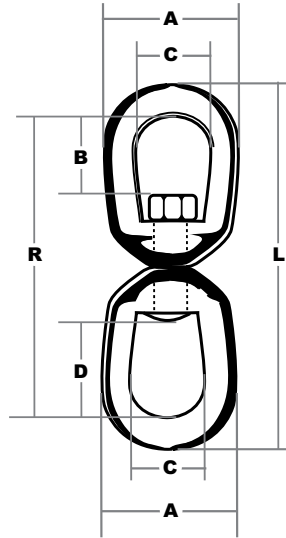
Indusco Part #	Trade Size	A	B	C	D	E	F	H	L	Weight Each
787 00141	1/4	4.28	.50	1.38	.76	.27	2.19	.50	3.50	.33
787 00146	5/16	5.42	.77	1.62	.88	.34	3.25	.68	4.50	.75
787 00151	3/8	5.42	.78	1.62	.88	.41	3.25	.68	4.50	.72
787 00153	7/16	6.88	1.01	2.00	1.07	.49	4.31	.87	5.75	1.42
787 00156	1/2	6.88	1.01	2.00	1.07	.55	4.31	.87	5.75	1.42
787 00173	9/16	8.59	1.27	2.38	1.28	.61	5.38	1.14	7.25	2.92
787 00161	5/8	8.59	1.27	2.38	1.28	.68	5.38	1.14	7.25	2.85
787 00166	3/4	10.25	1.56	2.88	1.49	.80	6.44	1.33	8.63	5.00
787 00171	7/8	11.87	1.72	3.12	1.73	.94	7.50	1.53	10.09	6.80
787 00176	1	13.56	2.00	3.62	2.11	1.07	8.63	1.78	11.50	10.40
787 00181	1-1/8	15.03	2.25	4.00	2.37	1.19	9.75	2.03	12.75	14.82
787 00186	1-1/4	16.94	2.53	4.50	2.62	1.34	10.81	2.25	14.38	21.57
787 00191	1-3/8	18.59	2.81	5.00	2.62	1.46	11.88	2.29	15.75	28.54
787 00196	1-1/2	20.13	3.08	5.38	2.87	1.59	12.94	2.56	17.00	38.06
787 00201	1-3/4	23.56	3.40	6.25	3.63	1.87	15.06	3.08	20.00	51.00
787 00202	2	27.13	3.94	7.25	3.88	2.12	17.06	3.31	23.00	89.25

WEIGHTS AND DIMENSIONS MAY VARY DUE TO MANUFACTURER TOLERANCES



EYE & EYE SWIVELS

- Drop forged.
- Hot dipped galvanized.
- Intended for use as positioning devices and are not intended to rotate under load.
- Meets performance requirements of federal specifications RR-C-271.
- See Warnings “**Swivels**” on Page 8 for proper use and selection.

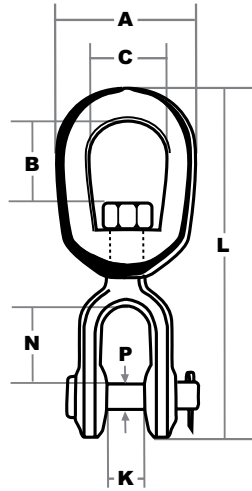


Indusco Part #	Trade Size	A	B	C	D	L	R	Weight Each	Working Load Limit*
863 00001	1/4	1.25	.75	.75	1.06	3.38	2.88	.20	850
863 00006	5/16	1.63	.75	1.00	1.25	4.13	3.63	.40	1,250
863 00011	3/8	2.00	1.00	1.25	1.50	5.00	4.25	.75	2,250
863 00016	1/2	2.50	1.25	1.63	1.94	6.75	5.75	1.40	3,600
863 00021	5/8	3.00	1.63	1.75	2.38	8.00	6.75	2.49	5,200
863 00026	3/4	3.50	1.75	2.00	2.50	8.75	7.25	4.02	7,200
863 00031	7/8	4.00	2.13	2.25	3.06	10.38	8.75	6.25	10,000
863 00036	1	4.50	2.25	2.50	3.50	11.75	9.75	8.95	12,500
863 00041	1-1/4	5.63	3.25	3.13	3.88	13.94	11.50	16.37	18,000
863 00046	1-1/2	7.00	3.88	4.00	4.19	20.00	17.13	45.79	45,200

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



JAW & EYE SWIVELS



- Drop forged.
- Hot dipped galvanized.
- These swivels are positioning devices and are not intended to rotate under load.
- Meets performance requirements of federal specifications RR-C-271.
- See Warnings “**Swivels**” on Page 8 for proper use and selection.

Indusco Part #	Trade Size	A	B	C	K	L	N	P	Weight Each	Working Load Limit*
863 00051	1/4	1.25	.75	.75	.50	3.16	.75	.25	.30	850
863 00056	5/16	1.63	.75	1.00	.56	3.75	.81	.31	.40	1,250
863 00061	3/8	2.00	1.00	1.25	.63	4.63	1.06	.38	.70	2,250
863 00066	1/2	2.50	1.25	1.50	.88	6.13	1.38	.50	1.40	3,600
863 00071	5/8	3.00	1.63	1.75	.94	7.38	1.50	.63	2.50	5,200
863 00076	3/4	3.50	1.75	2.00	1.13	8.31	1.75	.75	4.20	7,200
863 00081	7/8	4.00	2.13	2.25	1.19	9.63	2.06	.88	5.87	10,000
863 00086	1	4.50	2.25	2.50	1.75	11.63	2.44	1.13	11.00	12,500
863 00088	1-1/4	5.63	2.75	3.13	2.19	12.44	2.81	1.38	17.00	18,000
863 00096	1-1/2	7.00	3.88	4.00	2.88	20.84	4.40	2.25	54.75	45,200

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



BLOCK OPERATION AND REEVING

RULES FOR EFFICIENT BLOCK OPERATION

Periodic inspection of tackle block installations is essential for satisfactory operation. The following rules should be observed.

1. Check block for excessive wear on connections, sheave bearings, rope scores and center pins.
2. Be sure that rope scores are smooth. If a wire rope sheave shows the imprint of rope, excessive rope wear will occur. Such sheaves should be replaced.
3. Look for signs of overloading: Elongated links, eyes or shackles; bent shackle, link or center pins; hook throat opening larger than original size, etc. If such conditions are found, the block should be replaced.
4. Lubricate plain bore, roller bushed, and plain bronze bushed blocks periodically and frequently. Do not oil plug type self-lubricating bronze bushed blocks.
5. Wire ropes should not be used in manila rope blocks. They are not designed for the high load conditions associated with wire rope installations. The shallow score of manila rope sheaves does not give sufficient support to wire rope, and the small sheave diameter leads to early rope fatigue and short rope life.
6. Do not attach a block by the tip of the hook. This practice will result in the hook yielding or straightening out at much below rated strength. To develop full hook and block strength, the load should be centered on the hook.
7. Do not use an oversize rope. Wire rope too large for the sheave score will be pinched and prematurely worn. Such a condition will also cause excessive sheave rim wear and breakage. Manila rope too large for the block will not be supported properly by the sheave score, nor will it pass freely through the block mortise, resulting in chafing and premature rope failure.
8. A block should always be free to line up with the pull of the rope. Excessive fleet angles impose lateral strain on the block, resulting in short rope and sheave life and possible damage to the block.
9. Do not subject the block to loads in excess of its maximum work load rating. The observation of this sensible and self-evident rule will avoid accidents.

REEVING OF TACKLE BLOCKS

- In reeving a pair of tackle blocks, one of which has more than two sheaves, the hoisting rope should lead from one of the center sheaves of the upper block.
- When so reeved, the hoisting strain comes on the center of the blocks and they are prevented from toppling, with consequent injury to the rope by cutting across the edges of the block shell.
- To reeve by this method, the two blocks should be placed so that the sheaves in the upper block are at right angles to those in the lower one, as shown in the following illustrations. Start reeving with the becket, or standing end, of the rope.
- It is good practice to use a shackle block as the upper one of a pair and a hook block as the lower one. A shackle is much stronger than a hook of the same size and the strain on the upper block is much greater than on the lower one. The lower block supports only the load whereas the upper block carries the load as well as the hoisting strain. A hook is more convenient on the lower block because it can more readily be attached to or detached from the load.

Single
only



Single
and Single



Double
and Single



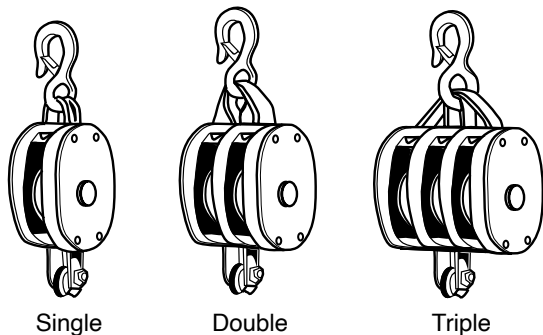
Double
and Double



Triple
and Double



TACKLE BLOCKS



Single

Double

Triple

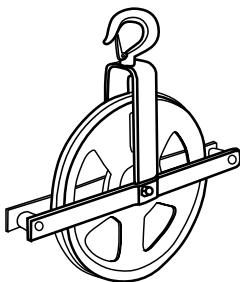
⚠ WARNING

- **INTENDED FOR CORDAGE USE ONLY.**
- Wood shell blocks with galvanized hook.
- Bronze brushed sheaves.
- Becketts furnished on all blocks.
- Available with shackle upon request.
- See Warnings “**Blocks**” on Page 6 for proper use and selection.

Indusco Part #	Size	Rope Diameter	Weight Each	Working Load Limit*
169 00076	4" Single	1/2"	1.8	1,000
169 00101	4" Double	1/2"	3.0	1,400
169 00126	4" Triple	1/2"	4.0	1,800
169 00081	5" Single	5/8"	3.0	1,200
169 00106	5" Double	5/8"	5.0	1,800
169 00131	5" Triple	5/8"	6.0	2,400
169 00086	6" Single	3/4"	5.0	1,800
169 00111	6" Double	3/4"	8.0	2,500
169 00136	6" Triple	3/4"	10.0	3,200
169 00091	8" Single	1"	9.0	2,800
169 00116	8" Double	1"	14.0	3,800
169 00141	8" Triple	1"	21.0	4,800

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

GIN BLOCKS



⚠ WARNING

- **FOR USE WITH MANILA ROPE.**
- Cast iron sheave.
- Drop forged swivel latch hooks.
- For light hoisting by roofers and contractors.
- See Warnings “**Blocks**” on Page 6 for proper use and selection.

Indusco Part #	Sheave Size	Cordage	Weight Each	Working Load Limit*
169 00156	12"	7/8-1"	14	1,000

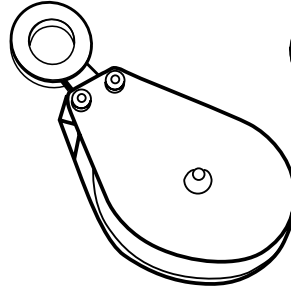
*NEVER EXCEED WORK LOAD LIMIT OR 20% OF THE PRODUCTS BREAK STRENGTH.

*ULTIMATE LOAD IS 3 TIMES THE WORKING LOAD LIMIT

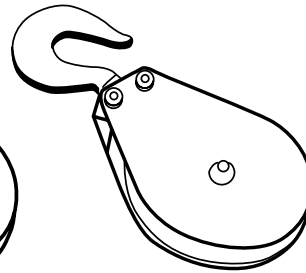


CABLE BLOCKS AND SHEAVES

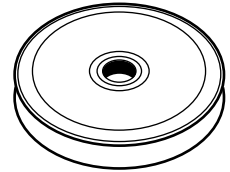
- See Warnings “**Blocks**” on Page 6 for proper use and selection.



Swivel Eye



Swivel Hook



Replacement Sheaves

SWIVEL EYE ZINC PLATED

Indusco Part #	Sheave Diameter	Swivel Eye #	Max. Cable Size	Weight Each	Working Load Limit*
169 00001	1-1/2	01548	3/16	.5	525
169 00002	2	02048	3/16	.7	600
169 00011	2-1/2	02548	1/4	1.0	685
169 00016	3	03048	1/4	1.4	800
169 00021	3-1/2	03548	5/16	3.1	1,550

SWIVEL HOOK ZINC PLATED

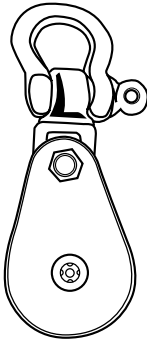
169 00026	1-1/2	01578	3/16	.5	525
169 00031	2	02078	3/16	.7	600
169 00036	2-1/2	02578	1/4	1.0	685
169 00041	3	03078	1/4	1.4	800
169 00046	3-1/2	03578	5/16	3.1	1,550

REPLACEMENT SHEAVES ZINC PLATED

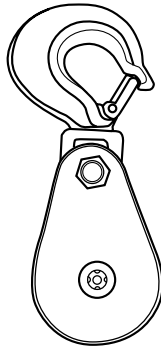
Indusco Part #	Sheave Diameter & Bore	Model No. #	Max. Cable Size	Weight Each	Working Load Limit*
757 00001	1-1/2 x 1/2	00158	3/16	.2	525
757 00006	2 x 1/2	00208	3/16	.3	600
757 00011	2-1/2 x 1/2	00258	1/4	.5	685
757 00016	3 x 1/2	00308	1/4	.8	800
757 00021	3-1/2 x 3/4	00358	5/16	1.3	1,550

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 3:1

SNATCH BLOCKS



With Swivel Shackle



With Swivel Hook

- Steel shell for wire rope.
- Semi-circular guard in shell over sheave prevents wire from slipping between shell and sheave. This feature greatly strengthens the plates in the shell.
- Steel sleeve over center pin gives a bearing surface of large diameter.
- Sleeve is held tightly between the plates and makes the block extremely rigid.
- See Warnings “**Blocks**” on Page 6 for proper use and selection.

BLOCK SNATCH WITH SWIVEL SHACKLE

Indusco Part #	Sheave Size	Working Load Limit in TONS*	Wire Size
169 00205	4"	4.5	1/2"
169 00215	6"	8	5/8" - 3/4"
169 00222	10"	8	5/8" - 3/4"
169 00225	8"	12	3/4" - 7/8"
169 00256	8"	15	3/4" - 7/8"
169 00262	8"	20	1" - 1-1/8"
169 00280	12"	20	1" - 1-1/8"

BLOCK SNATCH WITH SWIVEL HOOK

Indusco Part #	Sheave Size	Working Load Limit in TONS*	Wire Size
169 00210	4"	4.5	1/2"
169 00220	6"	8	5/8" - 3/4"
169 00230	8"	12	3/4" - 7/8"
169 00250	8"	15	3/4" - 7/8"
169 00268	8"	20	1" - 1-1/8"

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 4:1

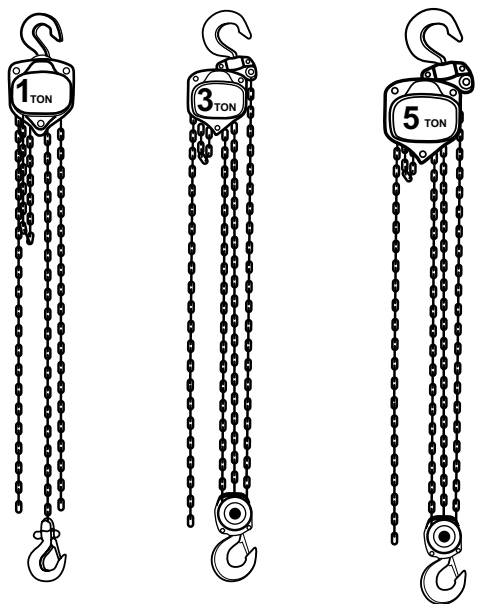


CHAIN HOISTS

WARNING

- Do not exceed working load limit.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.
- Improper operation of a hoist can create a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- To avoid such a potentially hazardous situation, **the operator shall:**
 1. NOT operate a malfunctioning or unusually performing hoist.
 2. NOT operate the hoist until you have thoroughly read and understood the manufacturer's Operating and Maintenance Instructions or Manuals.
 3. NOT operate a hoist which has been modified without the manufacturer's approval or certification to be in conformity with applicable OSHA regulations.
 4. NOT lift or pull more than rated load for the hoist.
 5. NOT use damaged hoist or hoist that is NOT working properly.
 6. NOT use hoist with twisted, kinked, damaged or worn load chain.
 7. NOT use the hoist to lift, support or transport people.
 8. NOT lift loads over people and make sure all personnel remain clear of the supported load.
 9. NOT attempt to lengthen the load chain or repair damaged load chain.
 10. Protect the hoist's load chain from weld splatter or other damaging contaminants.
 11. NOT use load chain as a sling or wrap load chain around load.
 12. NOT apply the load to the tip of the hook or to the hook latch.
 13. NOT apply load unless load chain is properly seated in the chain wheel(s) or sprocket(s).
 14. NOT apply load if bearing prevents equal loading on all load supporting chains.
 15. NOT operate beyond the limits of the load chain travel.
 16. NOT leave load supported by the hoist unattended unless specific precautions have been taken.
 17. NOT allow the chain or hook to be used as an electrical or welding ground.
 18. NOT allow the chain or hook to be touched by a live welding electrode.
 19. NOT remove or obscure the warnings on the hoist.
 20. NOT operate a hoist which has NOT been securely attached to a suitable support.
 21. NOT operate a hoist unless load slings or other approved single attachments are properly sized and seated in the hook saddle.
 22. NOT operate a hoist when it is restricted from forming a straight line from hook to hook in the direction of loading.
 23. NOT lift loads that are NOT balanced and that the holding action is NOT secure, taking up slack carefully.
 24. NOT operate a hoist unless all persons are and remain clear of the supported load.
 25. Report malfunctions or unusual performances of a hoist, after it has been shut down until repaired.
 26. NOT operate a hoist on which the safety placards or decals are missing or illegible.
 27. Be familiar with operating controls, procedures, and warnings.

CHAIN HOISTS



- Designed for vertical lifting applications.
- Custom lengths available upon request.

Indusco Part #	Working Load Limit in TONS	Standard Length	Headroom Minimum Distance between Hooks	Weight Each
471 00003	1/2	10'	14"	33.20
471 00005	1/2	15'	14"	29.00
471 00008	1/2	20'	14"	44.50
471 00013	1	10'	15"	34.20
471 00018	1	20'	15"	49.00
471 00028	1-1/2	10'	17"	57.10
471 00030	1-1/2	15'	17"	67.30
471 00033	1-1/2	20'	17"	72.30
471 00043	2	10'	19"	59.30
471 00048	2	20'	19"	74.50
471 00050	3	10'	23"	59.00
471 00062	3	15'	23"	100.30
471 00058	3	20'	23"	108.50
471 00068	5	10'	26"	137.30
471 00072	5	20'	26"	174.40

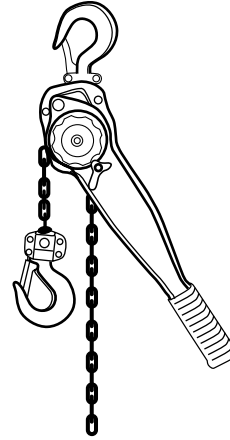


CHAIN PULLERS

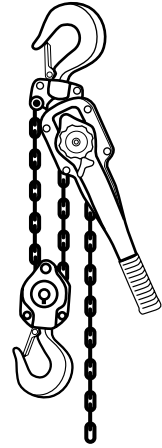
- Chain guides reduce chain blockage.
- To select proper hoist, consider capacity and lift range.
- Short handle gives high working efficiency, even in narrow spaces.
- Rugged frame.
- Custom lengths available upon request.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.

WARNING

- Never apply loads greater than the specified tonnage.
- Keep the load hooks in line with the chain.
- NEVER use the chain with a twist or kink.
- NEVER use units where parts are deformed by overload operations.
- NEVER use in ways that would produce shock pressures.
- NEVER try to lift or suspend load.
- NEVER apply cheater bars or other objects that would tamper with the integrity of the original unit.
- Designed for horizontal pulling applications.



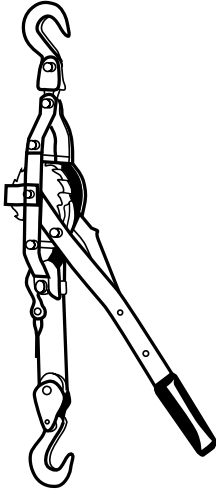
3/4 to 3 Tons



6 Tons

Indusco Part #	Working Load Limit in TONS	Standard Length	Headroom Minimum Distance between Hooks	Weight Each
666 00004	1/4	5'	9 - 7/16"	5.70
666 00001	1/2	5'	11 - 1/8"	10.00
666 00008	3/4	5'	12"	18.90
666 00011	3/4	10'	12"	20.70
666 00012	3/4	15'	12"	22.00
666 00023	1-1/2	5'	13"	30.50
666 00029	1-1/2	10'	13"	33.60
666 00033	1-1/2	15'	13"	39.70
666 00034	1-1/2	20'	13"	41.00
666 00047	3	5'	16"	56.00
666 00053	3	10'	16"	60.90
666 00058	3	15'	16"	70.50
666 00064	3	20'	16"	68.00
666 00067	6	5'	24"	87.80
666 00070	6	10'	24"	97.50

CABLE PULLERS



Puller
3/4 to 1-1/2 Tons



Hoist
1 to 2 Tons

⚠ WARNING

- Do not exceed working load limit.
- Do not lift people or loads over people.
- Do not use handle extender or cheater bar.
- Inspect unit before each use for frayed cable or any bent or damaged components.
- Follow all Warnings, Use and Application Instructions as supplied by the Manufacturer.

Indusco Part #	Type	Take-up	Cable Diameter	Working Load Limit		Weight Each
				Pulling	Lbs.	
666 00091	Puller	12' 6'	3/16"	Single Line Double Line	1,500 3,000	9
666 00081	Hoist	20' 10'	7/32"	Single Line Double Line	2,000 4,000	12.5

*WORKING LOAD LIMIT IS BASED ON A DESIGN FACTOR OF 5:1



CONVERSION FACTOR TABLE

To change:	To:	Multiply by:	To change:	To:	Multiply by:
centimeters	inches	.3937	metric tons	tons (short)	1.1023
centimeters	feet	.03281	miles	kilometers	1.6093
cubic feet	cubic meters	.0283	miles	feet	5280
cubic meters	cubic feet	35.3145	miles (naut.)	miles (land)	1.1516
cubic meters	cubic yards	1.3079	miles (land)	miles (naut.)	.8684
cubic yards	cubic meters	.7646	miles/hour	feet/minute	88
fathoms	feet	6	millimeters	inches	.0394
feet	meters	.3048	ounces	pounds	.0625
feet	miles (naut.)	.0001645	pints (dry)	liters	.5506
feet	miles (land)	.0001894	pints (liquid)	liters	.4732
feet/second	miles/hour	.6818	pounds	ounces	16
gallons	liters	3.7853	quarts (dry)	liters	1.1012
grams	pounds	.002205	quarts (liquid)	liters	.9463
inches	millimeters	25.4	sq. feet	sq. meters	.0929
inches	centimeters	2.54	sq. kilometers	sq. miles	.3861
kilometers	miles	.6214	sq. meters	sq. feet	10.7639
liters	gallons	.2642	sq. meters	sq. yards	1.196
liters	pints (dry)	1.8162	sq. miles	sq. kilometers	2.59
liters	pints (liquid)	2.1134	sq. yards	sq. meters	.836
liters	quarts (dry)	.9081	tons (long)	metric tons	1.016
liters	quarts (liquid)	1.0567	tons (short)	metric tons	.9072
meters	feet	3.2808	tons (long)	pounds	2240
meters	miles	.0006214	tons (short)	pounds	2000
meters	yards	1.0936	yards	meters	.9144
metric tons	tons (long)	.9842	yards	miles	.0005682

Decimal Equivalents of Common Fractions

1/16	.0625	3/8	.375	7/8	.875
3/32	.09375	7/16	.4375	1	1.0
1/8	.125	1/2	.50	1-1/8	1.125
3/16	.187	9/16	.5625	1-1/4	1.25
1/4	.25	5/8	.625	1-3/8	1.375
5/16	.3125	3/4	.75	1-1/2	1.50

To convert Fahrenheit to Celsius (Centigrade), subtract 32 and multiply by 5/9 (.5556)

To convert Celsius (Centigrade) to Fahrenheit, multiply by 9/5 (1.8) and add 32

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2209 C Sulphur Spring Road
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Phone: 410-727-0665
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