

Innovative Chafe Protection for High-Performance Ropes

Samson has the most innovative chafe solutions to extend the life of your synthetic ropes



in bulk for field installation.

Wherever chafing can affect performance, Samson chafe-protection solutions will ensure a safe and successful operation.

ROPE CLASSIFICATION

We have divided our product offering into two classes of ropes.

CLASS II

Class II ropes are produced with high-modulus fibers that impart the strength and stretch characteristics to ropes with tenacities greater than 15 grams/denier (gpd) and a total stretch at break of less than 6%.

Typical Class II ropes are produced with: HMPE (Dyneema® or Spectra®), Aramid (Technora® or Kevlar®), LCP (Vectran®), PBO (Zylon®) and Carbon fibers.

CLASS I

Class I ropes are produced with non high-modulus fibers that impart the strength and stretch characteristics to ropes with tenacities of 15 grams/denier (gpd) or less and a total stretch at break of 6% or greater.

Class I ropes are produced with traditional fibers such as: Olefin (polypropylene or polyethylene), nylon, and polyester. Samson chafe protection products are perfectly suited to combat the causes of cutting and abrasion encountered in offshore, mooring, and tug operations.

When replacing wire ropes with synthetics, it is important to prepare or repair the surfaces of deck equipment damaged or scored by abrasion. Chocks, fairleads, bollards, bitts, or other hardware contacting the rope need to be smooth and free of rust to ensure your ropes' longest life. A Samson representative is available to visit your vessel to assess the hardware condition and advise on proper preparation to maximize the service life of your ropes. That's the Samson Advantage: high-performance, reliable products, innovative engineering, and the best customer service in the industry.

Samson has developed a full range of options to protect your investment and ensure the longest service life for your working ropes. All chafe options can be factory-installed on your ropes prior to shipment, or they are available



In the real-world environment

industry, protecting ropes from

abrasion and cutting significantly

of the commercial marine

increases service life.

UNDERSTANDING ABRASION

There are two types of abrasion: internal abrasion caused by the relative movement of internal and external yarns, and external abrasion caused by contact with external surfaces. An unprotected rope moving over a rough surface, such as a poorly maintained chock can be subjected to both. Upon inspection, it's easy to see that the external strands are abraded by a rough surface: often, fibers can be left behind on the surface that caused the abrasion, and the surface of the rope readily shows abraded yarns.

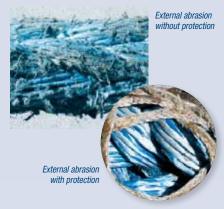
The same rough surfaces can also cause internal abrasion due to the movement of the internal strands relative to each other. When the rope's surface strands pass over rough surfaces, they are slowed relative to the strands next to them, causing friction. Heat is created from friction—and heat is among the biggest enemies of synthetic ropes.

Fortunately, the effects of both types of abrasion are easily mitigated. Proper surfacing of hardware is easily addressed. Grinding and smoothing of surfaces prior to

the installation of synthetic ropes is standard procedure (guidelines for surface preparation suitable for synthetic ropes are available on the Samson website at **SamsonRope.com**) and hardware specifically made for use with synthetic ropes is also available.

Because lines are often subjected to surfaces not under your control, like mooring bollards roughened and scored by wire ropes, proper chafe gear is essential. Table 1 illustrates two ropes: one with chafe protection and one without. Both ropes were exposed to identical working conditions but have different outcomes. The rope with chafe protection performed better, proven by the higher percentage of average residual strength. This is because properly designed chafe gear acts as a sacrificial layer for external abrasion from rough surfaces, and also reduces internal abrasion by keeping relative fiber movement at the surface of the rope.

Samson has designed chafe gear specifically for high-performance ropes, providing a complete line of chafe products to protect working lines in daily use.

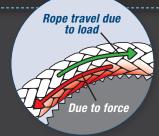




THE PHYSICS OF ABRASION

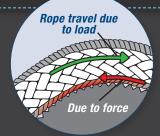
TABLE 1 Residual strength and safety factor for AmSteel®-Blue with and without chafe protection with similar number of jobs.

	WITH CHAFE PROTECTION	WITHOUT CHAFE PROTECTION
Average Residual Strength (% Published Min. Break Strength)	61%.	41%
Remaining Safety Factor	3:1	2:1



WITHOUT CHAFE GEAR (HMPE ON METAL)

Friction caused by poorly surfaced deck hardware causes both external abrasion to surface strands and abrasion to internal strands by creating relative movement between the fibers in the rope.



WITH CHAFE GEAR (HMPE ON HMPE)

External abrasion is primarily limited to the chafe gear itself, and the relative movement of internal and external fibers is greatly reduced or eliminated completely.

SamsonRope.com (III)

Saturn Dynalene PRODUCT CODE: 988

Saturn Dynalene is a unique product that protects the strength member from abrasion, yet allows the rope to be easily inspected for both internal and external fiber wear. This chafe protector is made from cut and abrasion resistant Dyneema® fiber with Samson's propietary Saturn coating to enhance abrasion resistance and reduce operating temperatures. Saturn Dynalene is permanently spliced over the rope and acts as a sacrificial cover, protecting it from abrasion and wear in mooring, tug, and offshore applications.

Saturn Dynalene is fully repairable in the field, does not absorb water, and floats. It is easy to install anywhere on the rope.

FEATURES:

- > Lightweight
- > Floats
- > Easy inspection without removal
- > Excellent durability
- > Improved coating for enhanced abrasion resistance

SIZE	FITS ROPE DIAMETER		COVERS SPLICE DIAMETER	
DESIGNATION	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Small	7/8" – 1-1/4"	22 - 30 mm	5/8" – 1"	16 – 24 mm
Medium	1-5/16" – 1-5/8"	32 - 40 mm	1-1/8" – 1-3/8"	28 – 34 mm
Large	1-3/4" - 3"	44 - 72 mm	1-1/2" – 2-5/8"	36 - 64 mm
Extra-Large	3-1/4" – 4"	80 - 96 mm	2-3/4" - 3-1/4"	68 - 80 mm

SIZE	FITS ROPE CIRCUMFERENCE		COVERS SPLICE CIRCUMFERENCE	
DESIGNATION	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Small	2-3/4" - 3-3/4"	66 - 90 mm	2" - 3"	48 – 72 mm
Medium	4" – 5"	96 - 120 mm	3-1/2" – 4-1/8"	84 - 100 mm
Large	5-1/2" – 9"	132 - 216 mm	4-1/2" - 8"	108 – 192 mm
Extra-Large	10" - 12"	240 - 288 mm	8-1/2" - 10"	204 - 240 mm



Saturn Dynalene is a great choice for mooring, tug, and offshore applications. Field repairable, rope is easily inspected without removal.

DC Gard PRODUCT CODE: 706

TC Gard PRODUCT CODE: 707

DC Gard is a tightly braided cover construction of Dyneema® fiber that is spliced onto the strength member to protect it from wear and abrasion in specific areas. Designed for use in applications like tug operations, where frequent handling and use put a premium on rope protection and resistance to snagging. For vessels where frequent mooring operations are the norm, DC Gard provides maximum protection for working ropes.

FEATURES:

- > Light and flexible
- > Floats
- > Can be removed for rope inspection
- > Cut resistant
- > Superior durability

DC GARD SPECIFICATIONS

SIZE	FITS ROPE D	IAMETER	COVERS SPLICE DIAMETER	
DESIGNATION	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size C	1" – 1-1/4"	24 - 30 mm	9/16" - 5/8"	14 – 16 mm
Size D	1-5/16" – 1-3/4"	32 – 44 mm	3/4" – 1"	18 – 24 mm
Size E	1-7/8" – 2-1/2"	46 - 60 mm	1-1/8" – 1-3/8"	28 - 34 mm
Size F	2-5/8" – 3-1/8"	64 – 76 mm	1-1/2" - 1-3/4"	36 – 44 mm
Size G	3-1/4" – 4-1/4"	80 - 104 mm	1-7/8" - 2-3/8"	45 – 57 mm
Size H	4-1/2" – 5-3/4"	110 - 146 mm	2-1/2" - 3-1/4"	60 - 80 mm
Size I	6" - 6-3/4"	152 - 172 mm	3-1/2" - 3-3/4"	86 - 92 mm
Size J	7" – 7-3/4"	178 - 196 mm	4"-4-1/2"	96 - 110 mm
Size K	8"	204 mm	4-5/8" – 5"	112 – 120 mm

SIZE	FITS ROPE CIRCUMFERENCE		COVERS SPLICE CIRCUMFERENCE	
DESIGNATION	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size C	3" - 3-3/4"	72 – 90 mm	1-3/4" – 2"	42 – 48 mm
Size D	4" - 5-1/2"	96 - 132 mm	2-1/4" - 3"	54 - 72 mm
Size E	5-5/8" - 7-1/2"	136 - 180 mm	3-1/2" - 4-1/8"	84 – 100 mm
Size F	8" - 9-1/2"	192 – 228 mm	4-1/2" – 5-1/2"	108 - 132 mm
Size G	10" – 13"	240 - 312 mm	5-5/8" - 7-1/8"	136 - 174 mm
Size H	13-1/2" – 17-1/4"	328 - 438 mm	7-1/2" – 10"	180 - 240 mm
Size I	18" – 20-1/4"	456 - 516 mm	10-1/2" – 11-1/4"	254 - 272 mm
Size J	21" - 23-1/4"	534 - 588 mm	12" – 13-1/2"	288 - 328 mm
Size K	24"	612 mm	14" – 15"	336 - 360 mm

If operating in regions where extreme heat is an issue, contact Customer Service for information about Samson's TC Gard made with Technora®

Dvneema⁶

Can be removed for rope inspection, excellent choice for tug and mooring applications.

DC Gard provides maximum protection for working ropes.



PRODUCT CODE: 705 DC Moor-Gard

DC Moor-Gard has been redesigned and optimized for lower operating temperatures and longer life for your mooring lines. This new patent pending design is modeled after Samson's robust Turbo series of covers for jacketed ropes and is made of 100% Dyneema® fiber. It features Samson's proprietary Saturn coating for enhanced abrasion resistance and reduced friction between the rope and chafe guard. PATENT PENDING.

FEATURES:

- Fixed or adjustable for easy positioning
- > Lightweight
- > Flexible
- > Floats
- > Easily removed for rope inspection

SIZE	FITS ROPE DIAMETER		COVERS SPLICE DIAMETER	
DESIGNATION	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size E	1" - 1-3/4"	24 – 44 mm	3/4" – 1"	18 – 24 mm
Size F	1-7/8" – 2-1/4"	46 – 56 mm	1-1/8" – 1-3/8"	28 – 34 mm
Size G	2-3/8" - 3-1/4"	57 – 80 mm	1-1/2" - 1-3/4"	36 – 44 mm

SIZE	FITS ROPE CIRCUMFERENCE		COVERS SPLICE CIRCUMFERENCE	
DESIGNATION	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size E	3" - 5-1/4"	72 – 132 mm	2-1/4" - 3"	54 – 72 mm
Size F	5-5/8" - 6-3/4"	138 - 168 mm	3-3/8" - 4-1/8"	84 – 102 mm
Size G	7-1/8" - 9-3/4"	171 – 240 mm	4-1/2" - 5-1/4"	108 – 132 mm



PRODUCT CODE: 976 Technolene

The construction of Technolene is similar to Dynalene, but the fiber composition is Technora, an aramid fiber with very high heat resistance. Technolene should be specified where synthetic ropes are subject to both abrasion and high temperatures from reflected heat sources or friction.

FEATURES:

- Excellent heat resistance for high heat applications/ environments
- > Easy inspection without removal
- > Excellent durability and cut resistance

SIZE	FITS ROPE DIAMETER		COVERS SPLICE DIAMETER	
DESIGNATION	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Small	7/8" – 1-1/4"	22 - 30 mm	5/8" – 1"	16 – 24 mm
Medium	1-5/16" - 1-5/8"	32 - 40 mm	1-1/8" – 1-3/8"	28 - 34 mm
Large	1-3/4" - 3"	44 - 72 mm	1-1/2" - 2-5/8"	36 - 64 mm
Extra-Large	3-1/4" – 4"	80 - 96 mm	2-3/4" - 3-1/4"	68 – 80 mm

SIZE	FITS ROPE CIRCUMFERENCE		COVERS SPLICE CIRCUMFERENCE	
DESIGNATION	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Small	2-3/4" - 3-3/4"	66 - 90 mm	2" - 3"	48 – 72 mm
Medium	4" – 5"	96 - 120 mm	3-1/2" – 4-1/8"	84 - 100 mm
Large	5-1/2" - 9"	132 - 216 mm	4-1/2" - 8"	108 - 192 mm
Extra-Large	10" - 12"	240 - 288 mm	8-1/2" – 10"	204 - 240 mm



Superior heat and abrasion resistance in high ambient heat applications.

Excellent protection that allows for easy inspection without removal.



Economical

Permanently sewn configuration or removable "hook and loop" configuration

DuraTech PRODUCT CODE: 984

DuraTech is a webbed-nylon chafe sleeve. It is available in a permanently sewn configuration or removable "hook and loop" configuration. This chafe sleeve provides an economical, but resilient solution for protecting lines from localized abrasion. The sleeves can be moved and tethered in place. Prefabricated grommets are standard on all sleeves to ensure proper installation. The standard length is 10 feet, with longer lengths available by request.



DuraTech can be installed on rope as well as on eyes.



HOOK AND LOOP SPECIFICATIONS

H00K &	FITS ROPE DIAMETER		COVERS SPLICE DIAMETER	
L00P	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size A	up to 3/4"	up to 18 mm	up to 1/2"	up to 12 mm
Size B	7/8" – 1"	22 - 24 mm	9/16" - 5/8"	14 – 16 mm
Size C	1-1/16" – 1-1/2"	26 - 36 mm	3/4" - 7/8"	18 – 22 mm
Size D	1-5/8" – 2"	40 – 48 mm	1" – 1-1/8"	24 – 28 mm
Size E	2-1/8" – 2-1/2"	52 - 60 mm	1-1/4" – 1-1/2"	30 - 36 mm

H00K &	FITS ROPE CIRCUMFERENCE		COVERS SPLICE CIRCUMFERENCE	
L00P	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size A	up to 2-1/4"	up to 54 mm	up to 1-1/2"	up to 36 mm
Size B	2-3/4" - 3"	66 – 72 mm	1-3/4" – 2"	42 – 48 mm
Size C	3-1/4" - 4-1/2"	78 – 108 mm	2-1/4" - 2-3/4"	54 - 66 mm
Size D	5" - 6"	120 - 144 mm	3" – 3-1/2"	72 – 84 mm
Size E	6-1/2" - 7-1/2"	156 - 180 mm	3-3/4" – 4-1/2"	90 - 108 mm

SEWN SPECIFICATIONS

SEWN	FITS ROPE DIAMETER		COVERS SPLICE DIAMETER	
SEVVIV	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size F	up to 5/8"	up to 16 mm	up to 3/8"	up to 9 mm
Size G	3/4" – 1"	18 – 24 mm	7/16" - 1/2"	11 – 12 mm
Size H	1-1/16" - 1-3/8"	26 - 34 mm	9/16" - 3/4"	14 – 18 mm
Size I	1-1/2" - 1-5/8"	36 - 40 mm	7/8" – 1"	22 - 24 mm
Size J	1-3/4" – 2"	44 – 48 mm	1-1/16" – 1 1/4"	26 - 30 mm
Size K	2-1/8" – 2-1/2"	52 – 60 mm	1-5/16" – 1 3/8"	32 – 34 mm
Size L	2-5/8" – 3"	64 – 72 mm	1-1/2" – 1 3/4"	36 – 44 mm

SEWN	FITS ROPE CIRC	UMFERENCE	COVERS SPLICE CIRCUMFERENCE			
	INCHES	MILLIMETERS	INCHES	MILLIMETERS		
Size F	up to 2"	up to 48 mm	up to 1-1/8"	up to 27 mm		
Size G	2-1/4" - 3"	54 - 72 mm	1-1/4" – 1-1/2"	33 - 36 mm		
Size H	3-1/4" - 4-1/8"	78 – 100 mm	1-3/4" - 2-1/4"	42 – 54 mm		
Size I	4-1/2" – 5"	108 - 120 mm	2-3/4" - 3"	66 - 72 mm		
Size J	5-1/2" - 6"	132 - 144 mm	3-1/4" - 3-3/4"	78 – 90 mm		
Size K	6-1/2" - 7-1/2"	156 - 180 mm	4" – 4-1/8"	96 - 100 mm		
Size L	8" – 9"	192 – 216 mm	4-1/2" – 5-1/2"	108 - 132 mm		

Great weight to durability ratio Great abrasion resistance Easy to install and emove for replacement

resistance
Easy to install and
remove for replacement
or rope inspection
Won't absorb water
Floats

Pro-Gard Eye Protector

PRODUCT CODE: 973 (Hook and Loop)

Pro-Gard is constructed of dual-woven fabric layers made with HMPE fiber. The finer inner layer allows the rope to adjust to load, while the thicker outer layer is coated to provide a high coefficient of friction to minimize movement on the contact surface. Lightweight Pro-Gard is easily installed in the field, won't absorb water, and floats. Available in 20,"30,"40," and 50," legs.

Pro-Gard Rope Protector

PRODUCT CODE: 974 (Hook and Loop)

The hook and loop feature of this product allows this chafe protector to be easily applied over the rope.



SIZE	FITS ROPE DIAMETER						
DESIGNATION	INCHES	MILLIMETERS					
Size A	3/8" - 5/8"	9 – 16 mm					
Size B	3/4" – 1"	18 – 24 mm					
Size C	1-1/8" - 1-3/4"	28 – 44 mm					
Size D	1-7/8" – 2-1/2"	46 - 60 mm					
Size E	2-5/8" - 3-1/4"	64 - 80 mm					

SIZE	FITS ROPE CIRCUMFERENCE						
DESIGNATION	INCHES	MILLIMETERS					
Size A	1-1/8" – 2"	27 – 48 mm					
Size B	2-1/4" - 3"	54 - 72 mm					
Size C	3-1/2" - 5-1/2"	84 - 132 mm					
Size D	5-5/8" - 7-1/2"	138 - 180 mm					
Size E	8" - 10"	192 - 240 mm					

Versatile: may be fixed or adjustable

Pro-Moor PRODUCT CODE: 977

The Pro-Moor product has all of the features of the Pro-Gard product but since it is tubular, is generally installed on the product before it leaves the factory. The standard length is 2 meters.

SIZE	FITS ROPE D	IAMETER	FITS ROPE CIRCUMFERENCE			
DESIGNATION	INCHES	MILLIMETERS	INCHES	MILLIMETERS		
Size B	1-1/8" - 1-1/2"	28 - 36 mm	3-1/2" - 4-1/2"	84 – 108 mm		
Size C	1-5/8" – 2"	40 – 48 mm	5" – 6"	120 – 144 mm		
Size D	2-1/8" - 2-1/2"	52 - 60 mm	6-1/2" - 7-1/2"	156 - 180 mm		
Size E	2-5/8" - 3"	64 - 72 mm	8" – 9"	192 – 216 mm		



Economical Durable Able to adjust or fix to rope

Durable

Economical

IFH Chafe-Gard PRODUCT CODE: 999601

IFH (Inverted Fire Hose) Chafe-Gard protects your mooring lines from chock wear. Composed of a tubular braided polyester structure externally coated with a highly wear-resistant rubberized compound. The polyester lining allows mooring lines to adjust under tension while the rubberized exterior's high coefficient of friction minimizes the rope's movement on the chock. Grommets at each end allow attachment of control lines. The standard length is 8 feet.

An inexpensive, durable choice that can be installed as a fixed or adjustable chafe solution.

SIZE	FITS ROPE D	IAMETER	
DESIGNATION	INCHES	MILLIMETERS	
Size A	1-1/8" – 2"	28 - 48 mm	
Size B	2-1/8" - 3"	52 - 72 mm	
Size C	2-1/2" - 3-3/4"	60 - 92 mm	

SIZE	FITS ROPE CIRC	FITS ROPE CIRCUMFERENCE							
DESIGNATION	INCHES	MILLIMETERS							
Size A	3-1/2" - 6"	84 - 144 mm							
Size B	6-1/2" – 9"	156 - 216 mm							
Size C	7-1/2" - 11-1/4"	180 - 272 mm							

Cordura® Chafe Protector

PRODUCT CODE: R6

lenath.

Cordura Chafe Protector is a woven product that is produced in a tubular format. Cordura is 100% industrial nylon with twice the abrasion resistance of normal nylon and three times the abrasion resistance of polyester. This product is commonly added to the eyes of working lines and can be

installed on the rope as well. Available in any

SIZE	FITS ROPE D	IAMETER	FITS ROPE CIRC	UMFERENCE	
SIZL	INCHES MILLIMETERS		INCHES	MILLIMETERS	
2	3/4" – 1"	18 – 24 mm	2-1/4" - 3"	54 - 72 mm	
3	1" – 1-1/2"	24 - 36 mm	3" - 4-1/2"	72 – 108 mm	
4	1-5/8" – 2-1/8"	40 - 52 mm	5" - 6-1/2"	120 - 156 mm	
5	2-1/4" - 2-5/8"	56 - 64 mm	7" – 8"	168 - 192 mm	
6	2-3/4" - 3-1/4"	68 - 80 mm	8-1/2" - 10"	204 - 240 mm	
8	3-3/8" – 4"	82 - 96 mm	10-1/8" - 12"	246 - 288 mm	
10	4-1/8" - 4-5/8"	100 - 112 mm	12-1/2" - 14"	300 - 336 mm	

Chafe Protector can be installed on rope as well as on eyes.

ROPE HARDWARE

Thimbles are designed to protect the rope's eye from cuts and kinking. Samson can supply thimbles in plastic, galvanized steel, bronze, stainless steel or painted steel. The application will determine the appropriate thimble to be specified.

Since thimbles are not designed for load carrying purposes, they are not load rated either by their manufacturers or by Samson. Certification of thimbles is not standard practice, and Samson does not provide ratings for thimbles used in our rope systems.

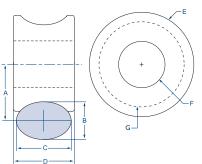
The working load limit (WLL) includes the combination of all applied loads, static and dynamic, based on normal service. The WLL does not represent the loss of strength in the thimble or rope due to creep and other mechanical, chemical, and environmental factors.

Never use a thimble that is smaller than the size suggested for the rope diameter.

Orkot® Thimble PRODUCT CODE: 963

The Orkot® Thimble is a means of attaching synthetic ropes to wire ropes via a shackle. Products made from Orkot® Marine composite materials have exceptional wear resistance and virtually no swell in water, which provides dimensional stability. They offer tolerance to edge loading and misalignment even with the heaviest loads, and are particularly suited to freeze fitting without the danger of shattering. Orkot® TLM Marine is the standard grade of material incorporating a woven-fabric reinforcement and solid lubricants within a thermosetting resin matrix. The material can be used in conjunction with water and grease lubrication, and can be run dry for limited periods.

SIZE DESIGNATION Rope Diameter		SIZE DESIGNATION Rope Circumference		Orkot Thimble	SHACKLE Pin Diameter	Jaw Winch	Working Load Limit
INCHES	MILLIMETERS	INCHES	MILLIMETERS	Stock #	INCHES	INCHES	TONS
7/8"	22 mm	2-3/4"	68 mm	SSB-6	1"	1.4"	6.5 tons
1"	24 mm	3"	72 mm	SSB-8	1-1/8"	1.7"	8.5 tons
1-1/8"	28 mm	3-1/2"	86 mm	SSB-9	1-1/4"	1.8"	9.5 tons
1-1/4"	30 mm	3-3/4"	92 mm	SSB-12	1-3/8"	2.0"	12.0 tons
1-3/8"	34 mm	4-1/4"	104 mm	SSB-13	1-1/2"	2.3"	13.5 tons
1-1/2"	36 mm	4-1/2"	110 mm	SSB-17	1-5/8"	2.4"	17.0 tons
1-3/4"	44 mm	5-1/2"	134 mm	SSB-25	2"	2.9"	25.0 tons
2"	48 mm	6"	152 mm	SSB-35	2-1/4"	3.3"	35.0 tons
2-1/2"	60 mm	7-1/2"	190 mm	SSB-55	2-3/4"	4.1"	55.0 tons
3"	72 mm	9"	216 mm	SSB-85	3-1/4"	5.0"	85.0 tons



Orkot Thimble Stock #	A INCHES	B INCHES	C INCHES	D Inches	E Inches	F INCHES	G INCHES		
SSB-6	1.38	0.88	1.19	1.32	2.31	1.02	1.88		
SSB-8	1.56	1.00	1.44	1.56	2.53	1.16	2.12		
SSB-9	1.75	1.13	1.56	1.69	2.94	1.27	2.37		
SSB-12	1.94	1.25	1.66	1.84	3.25	1.40	2.63		
SSB-13	2.13	1.38	1.88	2.06	3.56	1.53	2.88		
SSB-17	2.31	1.50	2.00	2.19	3.88	1.65	3.12		
SSB-25	2.75	1.75	2.38	2.63	4.63	2.06	3.75		
SSB-35	3.13	2.00	2.75	3.00	5.25	2.31	4.26		
SSB-55	3.88	2.50	3.63	3.88	6.50	2.81	5.26		
SSB-85	4.63	3.00	4.50	4.75	7.75	3.31	6.26		

Blue Line Thimble PRODUCT CODE: 930

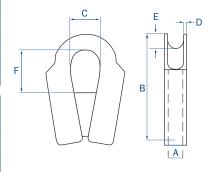
The Blue Line Thimble is compatible with Samson's high-performance, high-modulus synthetic fiber rope products such as AmSteel®Blue, Force-8, and DPX™-75. The tubular, gusseted design creates a high-strength thimble that protects the rope and maintains the proper bending radius when connected to mating hardware. Available in stainless steel or powder coated upon request.





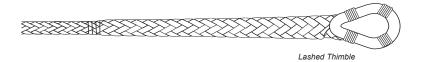
SIZE DESIGNATION Rope Diameter	SIZE DESIGNATION Rope Circumference	Thimble Wt. POUNDS	A INCHES	B INCHES	C INCHES	D Inches	E INCHES	F INCHES
3/16" - 3/8"	9/16" - 1-1/8"	0.80 lb	0.50"	3.3"	0.90"	0.20"	0.30"	0.90"
7/16" - 1/2"	1-1/4" - 1-1/2"	1.1 lb	0.60"	3.7"	1.1"	0.20"	0.40"	1.2"
9/16" - 5/8"	1-3/4" - 2"	1.4 lb	0.80"	4.4"	1.3"	0.20"	0.50"	1.8"
3/4" - 7/8"	2-1/4" - 2-3/4"	2.0 lb	0.90"	4.9"	1.4"	0.20"	0.60"	1.9"
1" - 1-1/8"	3" - 3-1/2"	5.8 lb	1.4"	7.5"	2.4"	0.30"	0.90"	2.9"
1-1/4" - 1-1/2"	3-3/4" - 4-1/2"	7.5 lb	1.8"	9.0"	2.8"	0.30"	1.1"	3.7"
1-5/8" - 1-11/16"	5" - 5-1/4"	10.3 lb	2.0"	10.0"	3.0"	0.30"	1.2"	3.8"
1-3/4" – 2"	5-1/2" - 6"	10.8 lb	2.2"	10.6"	3.2"	0.30"	1.4"	3.9"

SIZE DESIGNATION Rope Diameter	SIZE DESIGNATION Rope Circumference	Thimble Wt.	A mm	B mm	C mm	D mm	E mm	F mm
5 - 15 mm	15 – 27 mm	0.36 kg	12 mm	84 mm	23 mm	4 mm	8 mm	24 mm
11 - 12 mm	33 - 36 mm	0.50 kg	15 mm	95 mm	27 mm	5 mm	10 mm	31 mm
14 - 16 mm	42 – 48 mm	0.70 kg	19 mm	112 mm	32 mm	5 mm	12 mm	46 mm
18 - 22 mm	54 - 66 mm	0.91 kg	22 mm	125 mm	35 mm	5 mm	15 mm	47 mm
24 - 28 mm	68 - 84 mm	2.6 kg	35 mm	190 mm	60 mm	7 mm	22 mm	73 mm
30 - 36 mm	90 - 108 mm	3.4 kg	45 mm	228 mm	70 mm	7 mm	27 mm	94 mm
40 - 42 mm	120 - 126 mm	4.7 kg	50 mm	255 mm	75 mm	7 mm	31 mm	97 mm
44 - 48 mm	132 - 144 mm	4.9 kg	55 mm	268 mm	80 mm	7.5 mm	35 mm	99 mm
For use with Ultra Blue-8 a	add 1/4" (6 mm) to the rone (diameter to det	ermine the a	nnronriate th	imble size			

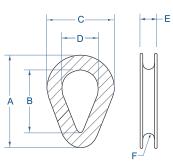


Heavy Duty Hawser Thimble PRODUCT CODE: 933

The cast-steel Heavy Duty Hawser Thimble is designed for use with wire rope or high-performance synthetic fiber ropes such as AmSteel®-Blue, Force-8, and DPX™-75. The galvanized thimble provides smooth and even grooves, maximum strength in critical areas, and the proper bending radius for the rope. When used with synthetic ropes, the thimble eye should be lashed at approximately 2, 4, 8, and 10 o'clock on the thimble circumference to secure it to the rope when not in service.







SIZE DESIGNATION Fits Rope Diameter	SIZE DESIGNATION Fits Rope Circumference	Thimble Wt. POUNDS	A INCHES	B INCHES	C INCHES	D INCHES	E INCHES	F INCHES	SIZE DESIGNATION Fits Rope Diameter	SIZE DESIGNATION Fits Rope Circumference	Thimble Wt. KILOGRAMS
5/8" - 3/4"	2" - 2-1/4"	3.5 lb	6.9"	4.5"	5.0"	3.0"	1.2"	0.40	16 - 18 mm	48 – 54 mm	1.6 kg
7/8" – 1"	2-3/4" - 3"	6.0 lb	8.6"	5.8"	6.3"	3.8"	1.4"	0.50	22 - 24 mm	66 – 72 mm	2.7 kg
1-1/8" - 1-1/4"	3-1/2" - 3-3/4"	9.5 lb	10.1"	6.8"	7.3"	4.3"	1.7"	0.7	28 - 30 mm	84 – 90 mm	4.3 kg
1-3/8" - 1-1/2"	4-1/8" - 4-1/2"	18.5 lb	12.1"	8.0"	8.8"	5.0"	2.2"	0.9	34 - 36 mm	100 - 108 mm	8.4 kg
1-5/8" - 1-3/4"	5" - 5-1/2"	24.0 lb	12.8"	8.0"	9.3"	5.0"	2.4"	0.9	40 - 44 mm	120 - 132 mm	10.9 kg
1-7/8" – 2"	5-5/8" - 6"	33.5 lb	14.8"	9.5"	10.8"	6.0"	2.7"	1.1	46 - 48 mm	138 - 144 mm	15.2 kg
2-1/8" - 2-1/4"	6-1/2" - 7"	53.5 lb	17.1"	11.0"	12.5"	7.0"	3.1"	1.2	52 - 56 mm	156 - 168 mm	24.3 kg
2-3/8" - 2-1/2"	7-1/8" – 7 1/2"	81.5 lb	19.3"	12.8"	14.3"	8.3"	3.9"	1.4	58 - 60 mm	174 – 180 mm	37.0 kg
2-3/4" - 3"	8-1/2" - 9"	137 lb	24.5"	15.0"	17.0"	9.4"	4.9"	1.6	68 - 72 mm	204 - 216 mm	61.9 kg

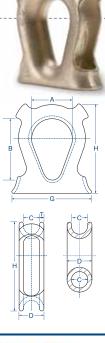
For use with Ultra Blue-8 add 1/4" (6 mm) to the rope diameter to determine the appropriate thimble size.

SamsonRope.com

Bronze Thimble PRODUCT CODE: 920

Bronze Rope Thimbles are made from a high strength, noncorrosive, nonsparking nickel-aluminum bronze alloy, ideal for marine applications. This rope thimble was developed primarily for use with nylon, manila, polypropylene, and polyvinyl chloride ropes. Four rings or "keepers" secure the rope from jumping out of the thimble. Eighteen sizes are available in rope-diameter sizes from 3/8" to 4-3/4".

SIZE DESIGNATION Rope Diameter	SIZE DESIGNATION Rope Diameter	Shackle Size INCHES	A INCHES	B INCHES	C INCHES	D Inches	G INCHES	H INCHES	T INCHES	Weight POUNDS	Weight KILOGRAMS
3/8" - 7/16"	9 - 11 mm	3/8"	7/8"	1 1/2"	9/16"	3/4"	2-1/16"	2-7/16"	3/32"	0.20 lb	0.09 kg
1/2" - 9/16"	12 - 14 mm	3/8"	1"	1 5/8"	11/16"	29/32"	2-3/8"	2-13/16"	7/64"	0.40 lb	0.18 kg
5/8"	16 mm	1/2"	1-1/8"	2"	7/8"	1-1/8"	3-1/8"	3-1/2"	1/8"	0.60 lb	0.27 kg
13/16" - 15/16"	20 - 23 mm	5/8"	1-1/4"	2 5/16"	1-1/16"	1-3/8"	3-3/4"	4-3/16"	5/32"	0.90 lb	0.41 kg
1"	24 mm	3/4"	1-5/8"	2 3/4"	1-3/16"	1-9/16"	4-1/4"	4-11/16"	3/16"	1.6 lb	0.73 kg
1-1/8" - 1-1/4"	28 - 30 mm	7/8"	1-7/8"	3 1/16"	1-7/16"	1-27/32"	5-1/16"	5-3/16"	13/64"	2.1 lb	1.0 kg
1-5/16"	32 mm	7/8"	2-1/8"	3 5/8"	1-1/2"	1-15/16"	5-1/2"	5-13/16"	7/32"	2.6 lb	1.2 kg
1-1/2"	36 mm	1"	2-3/8"	4 1/16"	1-11/16"	2-5/32"	6-1/4"	6-1/2"	15/64"	3.7 lb	1.7 kg
1-5/8"	40 mm	1-1/8"	2-5/8"	4 1/2"	1-13/16"	2-5/16"	6-3/4"	7-1/16"	1/4"	4.8 lb	2.2 kg
1-3/4"	44 mm	1-1/4"	2-7/8"	4 15/16"	2"	2-17/32"	7-3/8"	7-3/4"	17/64"	6.8 lb	3.1 kg
2"	48 mm	1-1/4"	3-1/8"	5 3/8"	2-1/4"	2-13/16"	8-3/8"	8-5/8"	9/32"	7.7 lb	3.5 kg
2-1/8"	52 mm	1-3/8"	3-1/2"	5 13/16"	2-3/8"	2-31/32"	9"	9-1/8"	19/64"	9.5 lb	4.3 kg
2-1/4"	56 mm	1-1/2"	3-7/8"	6 1/4"	2-1/2"	3-1/8"	9-3/8"	9-5/8"	5/16"	11.0 lb	5.0 kg
2-5/8"	64 mm	1-5/8"	4-3/8"	7"	2-7/8"	3-5/8"	10-5/8"	10-3/4"	3/8"	16.5 lb	7.5 kg
2-3/4" - 2-7/8"	68 - 70 mm	2"	4-7/8"	8"	3-1/4"	4-1/8"	11-3/4"	12-1/8"	7/16"	25.0 lb	11.3 kg
3" - 3-1/4"	72 - 80 mm	2"	5-3/8"	9 1/4"	3-1/2"	4-1/2"	13-1/8"	13-7/8"	1/2"	38.0 lb	17.2 kg
3-3/4"	92 mm	_	8"	10"	4"	5-3/8"	14-5/8"	15-1/2"	11/16"	60.0 lb	27.2 kg
4-3/4"	116 mm	_	9"	12-1/2"	6-3/8"	8-3/8"	22-7/8"	21-1/2"	1"	225 lb	102 kg



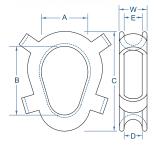
Not recommended for use with Class II ropes. Dimensions are approximate—within standard foundry practice.

Galvanized Painted Thimble PRODUCT CODE: 929

The Galvanized Painted Thimble provides a new dimension in "lightweight" heavy-duty rope thimbles with this improved design for use in the marine towing industry. Light enough for easy handling, but with the maximum high strength at critical points. The generous inside dimensions allow these thimbles to fit any large towing shackle, or any large regular shackle.

SIZE DESIGNATION Rope Diameter	SIZE DESIGNATION Rope Diameter	A INCHES	B INCHES	C INCHES	D Inches	E INCHES	W INCHES	Weight POUNDS	Weight KILOGRAMS
1-1/8" - 1-1/4"	28 - 30 mm	2"	3-1/2"	5-3/8"	1-9/16"	1-7/16"	1-15/16"	2.5 lb	1.1 kg
1-5/16" - 1-5/8"	32 - 40 mm	3-3/8"	5-1/8"	7-7/8"	1-13/16"	1-3/4"	2-1/4"	5.5 lb	2.5 kg
2" - 2-1/4"	48 - 56 mm	3-1/8"	6"	9-1/4"	2-3/4"	2-3/4"	3-3/8"	11.0 lb	5.0 kg
2-5/8"	64 mm	4-1/4"	6-1/2"	11"	3-1/8"	3"	3-3/4"	20.5 lb	9.3 kg
3"	72 mm	4-3/4"	7-5/8"	12"	3-1/2"	3-1/4"	4"	26.0 lb	11.8 kg
3-1/4"	80 mm	5"	8-1/2"	13-1/2"	3-7/8"	3-1/2"	4-1/4"	35.5 lb	16.1 kg
3-5/8" - 4"	88 - 96 mm	6"	9-1/2"	15-1/2"	5-3/8"	4-1/2"	5-1/2"	48.0 lb	21.8 kg
4-1/4" - 4-5/8"	104 - 112 mm	6-1/8"	10"	17"	5-3/4"	5-1/4"	6"	56.5 lb	25.6 kg
5" - 5-1/4"	120 - 128 mm	6-7/16"	11"	18-1/2"	6-1/2"	5-3/4"	6-5/8"	64.0 lb	29.0 kg
5-5/8" - 6"	142 - 152 mm	10"	11-7/8"	24"	6-1/2"	6-1/8"	7"	80.0 lb	36.3 kg
6-1/4" - 6-5/8"	158 - 168 mm	12"	16-1/4"	27"	8"	7-3/4"	9"	270 lb	122 kg
7" – 7-1/4"	178 - 184 mm	13-7/8"	19-3/4"	33-3/4"	9-1/4"	8-1/2"	10-1/4"	378 lb	171 kg





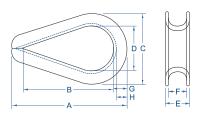
Not recommended for use with Class II ropes. Dimensions are approximate—in accordance with standard foundry practices. Note: "D" Dimension is larger than "E" Dimension to allow for the larger after splicing diameter of the rope.

Galvanized HD Wire Thimble PRODUCT CODE: 924

The Wire Thimble protects against wear and deformation of the rope eye. Designed with the proper bending radius to maintain rope strength and provide longer service life. This thimble meets the performance requirements of Federal Specifications FF-T-276b Type III (except for those provisions required of the contractor.)

texcept for those provisions required or the contractor.)													
SIZE DESIGNATION Rope Diameter	SIZE DESIGNATION Rope Diameter	A INCHES	B INCHES	C INCHES	D INCHES	E INCHES	F INCHES	G INCHES	H INCHES	Weight POUNDS	Weight KILOGRAMS		
1/4"	6 mm	2.2"	1.6"	1.5"	0.90"	0.40"	0.30"	0.10"	0.30"	0.07 lb	0.03 kg		
5/16"	8 mm	2.5"	1.9"	1.8"	1.1"	0.50"	0.30"	0.10"	0.30"	0.12 lb	0.05 kg		
3/8"	9 mm	2.9"	2.1"	2.1"	1.1"	0.60"	0.40"	0.10"	0.40"	0.22 lb	0.10 kg		
7/16"	11 mm	3.3"	2.4"	2.4"	1.3"	0.70"	0.50"	0.10"	0.50"	0.35 lb	0.16 kg		
1/2"- 9/16"	12 - 14 mm	3.6"	2.8"	2.8"	1.5"	0.90"	0.60"	0.20"	0.50"	0.51 lb	0.23 kg		
5/8"	16 mm	4.3"	3.3"	3.1"	1.8"	1.0"	0.70"	0.20"	0.50"	0.76 lb	0.34 kg		
3/4"	18 mm	5.0"	3.8"	3.8"	2.0"	1.2"	0.80"	0.20"	0.70"	1.58 lb	0.72 kg		
7/8"	22 mm	5.5"	4.3"	4.3"	2.3"	1.4"	0.90"	0.20"	0.80"	1.78 lb	0.81 kg		
1"	24 mm	6.1"	4.5"	4.8"	2.5"	1.6"	1.1"	0.30"	0.90"	3.14 lb	1.42 kg		
1-1/8"- 1-1/4"	28 - 30 mm	7.0"	5.1"	5.9"	2.9"	1.9"	1.3"	0.30"	1.3"	4.00 lb	1.81 kg		
1-1/4"- 1-3/8"	30 - 34 mm	9.9"	6.5"	6.8"	3.5"	2.3"	1.4"	0.40"	1.3"	8.11 lb	3.68 kg		
1-3/8"- 1-1/2"	34 - 36 mm	9.0"	6.3"	7.1"	3.5"	2.6"	1.6"	0.50"	1.3"	13.0 lb	5.87 kg		
1-5/8"	40 mm	11.3"	8.0"	8.1"	4.0"	3.0"	1.7"	0.50"	1.4"	17.0 lb	7.71 kg		
1-3/4"	44 mm	12.2"	9.0"	8.5"	4.5"	3.5"	1.8"	0.50"	1.5"	17.8 lb	8.05 kg		
1-7/8"- 2"	45 - 48 mm	15.1"	12.0"	10.4"	6.0"	3.4"	2.1"	0.50"	1.7"	27.8 lb	12.6 kg		
2-1/4"	56 mm	17.5"	14.0"	11.9"	7.0"	3.9"	2.4"	0.60"	1.8"	39.5 lb	17.9 kg		





Nylite Assemblies

SPOOLS, SHIELDS, AND SHACKLE ASSEMBLY

Easily installed into or removed from a premade soft eye. Nylite spool is only 1/7th the weight of steel. Connectors will not deform or rupture from repeated loadings. The shackle takes advantage of the high-strength Nylite connector and synthetic rope.

WORKING DETAILS

- > Working loads listed are in tons (2,000 lb).
- Working loads, as given, are based on pin-bore relationship provided by use of the Nylite Shackle. When using a nonstandard pin, the working load as given DOES NOT APPLY.
- > The HP aluminum spool is available for use with high-performance Class II ropes in sizes -1 through -5.
- Aluminum spools are not recommended for continuous use in submerged marine environments.
- > All working load values are based on a 4:1 safety factor.
- Assembly ratings are based on the use of designated spools and shackles. Spools used in conjunction with other hardware are not rated by Samson.



NYLITE SPOOLS

Product Code: 969



HP Aluminum Spool (sizes -1 to -5)



Nylite Spool (sizes -1 to -9)

SHACKLES

Product Code: 961

The shackle working load limit (WLL) is stamped on each shackle.



-1 and -2 shackles are Electrolytic Zinc coated per ASTM B633-07 SC2 Type III.

Sizes -3 through -9 shackles are hot-dip galvanized per ASTM A123.

CLASS I ASSEMBLY Nylite Assembly with Nylon Spool

Shackle Type	Product Code	Size	Shield Color	Fits Rope MIN.	Diameter MAX	Fits F Circumt MIN.	- 10 -	Samson Minimum Eye Size INCHES	Assembly Working Load TONS	Weight Each POUNDS	Fits R Diam MIN.		Fits F Circumf MIN.	- 1	Samson Minimum Eye Size MM	Assembly Working Load TONS	Weight Each KG
Zinc Plated	964-0320	-1	Blue	3/8"	1/2"	1-1/8"	1-1/2"	2-3/16"	1.1 tons	0.50 lb	9 mm	12 mm	27 mm	36 mm	55.6 mm	1.1 tons	0.23 kg
Zinc Plated	964-0400	-2	Red	9/16"	5/8"	1-3/4"	2"	2-3/4"	1.6 tons	1.0 в	14 mm	16 mm	42 mm	48 mm	68.0 mm	1.6 tons	0.45 kg
Galvanized	964-0520	-3	Green	3/4"	13/16"	2-1/4"	2-1/2"	3-3/4"	2.5 tons	1.6 lb	18 mm	20 mm	54 mm	60 mm	92.0 mm	2.5 tons	0.73 kg
Galvanized	964-0680	-4	Orange	7/8"	1-1/16"	2-3/4"	3-1/4"	4-7/8"	4.5 tons	3.8 lb	22 mm	26 mm	66 mm	78 mm	124 mm	4.5 tons	1.7 kg
Galvanized	964-0840	-5	Black	1-1/8"	1-5/16"	3-1/2"	4"	6-1/8"	7.5 tons	6.2 lb	28 mm	32 mm	84 mm	96 mm	156 mm	7.5 tons	2.8 kg
Galvanized	964-1120	-6	Yellow	1-1/2"	1-3/4"	4-1/2"	5-1/2"	7-5/8"	12.5 tons	19.0 լե	36 mm	44 mm	108 mm	132 mm	194 mm	12.5 tons	8.6 kg
Galvanized	964-1440	-7	Black	2"	2-1/4"	6"	7"	9-3/4"	20.0 tons	24.0 lb	48 mm	56 mm	144 mm	168 mm	248 mm	20.0 tons	10.9 kg
Galvanized	964-1680	-8	Black	2-1/2"	2-5/8"	7-1/2"	8"	11-1/4"	25.0 tons	38.0 lb	60 mm	64 mm	180 mm	192 mm	286 mm	25.0 tons	17.2 kg
Galvanized	964-2080	-9	Black	2-3/4"	3 1/4"	8-1/2"	10"	14"	35.0 tons	64.0 lb	68 mm	80 mm	204 mm	240 mm	356 mm	35.0 tons	29.0 kg

⁻¹ and -2 shackles are Electrolytic Zinc coated per ASTM B633-07 SC2 Type III. Sizes -3 through -9 shackles are hot-dip galvanized per ASTM A123.

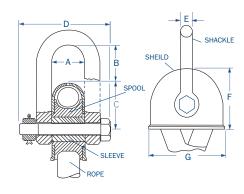
CLASS II ASSEMBLY Nylite Assembly with HP Aluminum Spool

Shackle Type	Product Code	Size	Shield Color		Rope neter MAX	Fits F Circumf MIN.	- 1	Samson Minimum Eye Size INCHES	Assembly Working Load TONS	Weight Each POUNDS	Fits F Diam MIN.		Fits R Circumf MIN.		Samson Minimum Eye Size MM	Assembly Working Load TONS	Weight Each KG
Zinc Plated	964-0321	-1	Blue	3/8"	1/2"	1-1/8"	1-1/2"	2-3/16"	2.7 tons	0.53 lb	9 mm	12 mm	27 mm	36 mm	56.6 mm	2.7 tons	1.2 kg
Zinc Plated	964-0401	-2	Red	9/16"	5/8"	1-3/4"	2"	2-3/4"	4.8 tons	1.1 lb	14 mm	16 mm	42 mm	48 mm	68.0 mm	4.8 tons	2.3 kg
Galvanized	964-0521	-3	Green	3/4"	13/16"	2-1/4"	2-1/2"	3-3/4"	5.8 tons	1.8 lb	18 mm	20 mm	54 mm	60 mm	92.0 mm	5.8 tons	3.9 kg
Galvanized	964-0681	-4	Orange	7/8"	1-1/16"	2-3/4"	3-1/4"	4-7/8"	11.5 tons	4.1 lb	22 mm	26 mm	66 mm	78 mm	124 mm	11.5 tons	9.1 kg
Galvanized	964-0841	-5	Black	1-1/8"	1-5/16"	3-1/2"	4"	6-1/8"	14.0 tons	6.8 lb	28 mm	32 mm	84 mm	96 mm	156 mm	14.0 tons	14.9 kg

⁻¹ and -2 shackles are Electrolytic Zinc coated per ASTM B633-07 SC2 Type III. Sizes -3 through -5 shackles are hot-dip galvanized per ASTM A123.

Size	Spool Inside Dia.	Spool Outside Dia.	Pin Diameter*	A INCHES	B INCHES	C INCHES	D Inches	E INCHES	F INCHES	G INCHES
-1	0.46"	1.50"	0.44"	0.88"	1.08"	1.11"	2.41"	0.38"	1.99"	2.34"
-2	0.58"	1.75"	0.56"	1.13"	1.21"	1.38"	3.11"	0.50"	2.38"	2.88"
-3	0.64"	2.25"	0.63"	1.38"	1.61"	1.77"	3.54"	0.56"	3.02"	3.70"
-4	0.89"	3.00"	0.88"	1.75"	1.90"	2.29"	4.70"	0.75"	3.79"	4.71"
-5	1.02"	3.75"	1.00"	2.13"	2.15"	2.85"	5.55"	0.88"	4.85"	5.95"
-6	1.54"	5.00"	1.50"	2.63"	3.14"	3.80"	7.75"	1.37"	6.30"	7.85"
-7	1.75"	6.25"	1.63"	3.25"	3.75"	4.80"	8.90"	1.50"	7.93"	9.89"
-8	2.00"	7.25"	1.75"	3.75"	4.13"	5.61"	10.13"	1.75"	9.24"	11.47"
-9	2.25"	9.00"	2.00"	4.63"	5.06"	6.95"	12.15"	2.00"	11.45"	14.28"

^{*}Sizes -1 to -5 are supplied with jam nuts and cotter pins. Larger sizes have cotter pins and standard nuts.



Chafe Criteria

The chafe gear selector is designed to help you determine which product is suitable for your application based on whether you need sliding or fixed chafe protection, the construction of the rope, and the level of abrasion to which the rope will be exposed. Please confirm your selection with a Samson technical sales manager, engineer, or customer service representative.

HIGH-PERFORMANCE CHAFE PROTECTION

STANDARD CHAFE PROTECTION Cordura® Chafe Protector

PRODUCT NAME

DC Moor-Gard

Saturn Dynalene

DC Gard

TC Gard

Technolene

DuraTech

Pro-Gard

Pro-Moor

IFH Chafe Guard

Pro-Gard Eye Protector

FAMILY

CODE

706

705

988

707

976

R6

984

999601

974

973

977

ed.	LIG	НТ	MED	NUI	HEAVY				
FIXED	Non-jacketed	Jacketed	Non-jacketed	Jacketed	Non-jacketed	Jacketed			
X	X		X		X				
	X	X	X	X	X	X			
X	Х		X		X				
X			Х		X				
Х	Х		Х		X				
	Х	Х	Х	Х					
	X	X	Х	X	X	X			
	Х	X	Х	Х					
	Х	X	Х	X					
X	X	X	X	X					

X

X

FITS ROPE DIAMETER See product specs for exact sizes

/5"

X

1/5"

X

1/2"

ABRASION LEVEL

Rope Thimbles

Please see individual product descriptions for exact sizing and specifications.

PRODUCT NAME	FAMILY CODE	PAGE	1/4"-1/2"	3/4"-1"	1-1/4"-1-1	1-3/4"-2"	2-1/4"–2-1	2-3/4"-3"	3-1/4"-3-1	3-3/4"-4"	4-1/4"-4-1	4-3/4"-5"	5-1/4"-5-1	5-3/4"-6"	6-1/4"-6-1	6-3/4"-7"
Blue Line Thimble	930	8														
Bronze Thimble	920	9														
Galvanized HD Wire Thimble	924	9														
Galvanized Painted Thimble	929	9														
Heavy Duty Hawser Thimble	933	8														
Orkot® Thimble	963	7														

SLIDING

X

X

X

X

X

X

/5"

/5"

PAGE

4

5

4

4

5

7

6

7

6

6

6

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Dyneema® is DSM's high-performance polyethylene product.





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