



**samson**  
THE STRONGEST NAME IN ROPE





The best way to make sure you're using genuine Samson Utility Ropes is to...

# ASK FOR IT.

## Winch Lines

Lifting or shifting dead weight loads calls for lines that have the strength to perform, and the resistance to bend fatigue needed to get the work done. Firm constructions that work well on winch drums, enhance lifting capacity, and have the durability for long-lasting performance all typify Samson's range of winch lines. Available in single braid or double-braid constructions, and in several different fibers that allow you to regulate the length, diameter and strength of the winch line to suit your application.

## Pulling & Stringing Lines

The athletes of the utility industry—strong enough to tackle the heaviest loads, yet light enough to be dependably handled by man or machine. Long and strong, they also withstand miles of use and abuse and keep on working to get the job done. The right rope makes quick work of handling conductors, whether they're aerial or underground. Whether it's the economy of traditional fibers like polyester or the high performance of Dyneema®, Samson sets the standard in pulling and stringing lines for the utility industry.

## Hand Lines

Utility structures, linemen, and Samson ropes are a natural fit. Our strong, durable hand lines stand up to rigorous bending through blocks, yet are still easy on the hands. Excellent grip helps prevent slips, and allows for quick and efficient lifts. Available in economical 3-strand or non-rotational 12-strand constructions, these ropes bring the quality and dependability Samson is known for to the worksite.

## WHEN YOU ASK FOR IT, YOU GET MORE THAN JUST ANOTHER ROPE

Whether you're renting equipment or preparing your own for the next project, the best way to make certain you're getting the strength of Samson is to ask for it by name. Every Samson rope comes complete with The Samson Advantage. A history of developing and manufacturing the strongest, most durable ropes on the market. With an unmatched commitment to research and development, we bring fiber technology together with application engineering and manufacturing expertise to produce ropes that are perfectly matched to the requirements of your project.



## Samson and Morpac Go the Distance

One of the longest crossings in the world, the Tacoma Narrows transmission line was originally built in 1926. This 6,240-foot line extends the entire length of the Tacoma Narrows.

When called on to provide the drum puller for threading the twin circuit estuary, Morpac Industries, Inc., sent a Morgan LH46 3-drum puller loaded with 9/16" AmSteelBlue to do the job. "Samson rope has been used on Morgan line-stringing equipment for more than 20 years," says Pete Morgan of Morpac. "The superior strength-to-weight ratio of AmSteelBlue makes it the ideal choice for helicopter threading of the pilot line."

Morpac also uses 9/16" Samson Tenex in their 8-part clipping blocks.

## WINCH LINES

When dead weight is being lifted or shifted, you can count on Samson's superior winch lines. Firm constructions, long lasting performance, and lifting capacity all define these ropes. They are available in several different fiber choices that enable you to regulate the length, diameter, and strength of the line. Samson winch lines are available in double or single braid, offering a choice of rope that will suit your specific application needs.

1/2" diameter specifications shown for comparison, see [SamsonRope.com](http://SamsonRope.com) for full range of sizes and additional specifications. Minimum Break Strengths shown are for spliced rope.

### AmSteel II Plus

PRODUCT CODE **575** (uncoated); **875** (coated)  
CONSTRUCTION/CLASS Double Braid Class II  
FIBER (CORE/COVER): Dyneema® / Polyester

- > Abrasion resistant
- > Extremely low elongation
- > Lightweight
- > Wire rope replacement
- > Available with or without Samthane coating



DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
1/2"	8.6 lb	16,500 lb

### AmSteel II

PRODUCT CODE **574** (uncoated); **874** (coated)  
CONSTRUCTION/CLASS Double Braid Class II  
FIBER (CORE/COVER): Dyneema® / Polyester

- > Abrasion resistant
- > Extremely low elongation
- > Lightweight
- > Wire rope replacement
- > Available with or without Samthane coating



DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
1/2"	8.6 lb	13,200 lb

### AmSteelBlue

PRODUCT CODE **872**  
CONSTRUCTION/CLASS 12-Strand Single Braid Class II  
FIBER: Dyneema®

- > Maximum strength-to-weight ratio
- > Excellent flex-fatigue resistance
- > Highly abrasion resistant
- > Non-rotational
- > 1/7th the weight of wire
- > Same elongation as wire
- > Wire rope replacement
- > Samthane coated



DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
1/2"	5.9 lb	30,600 lb

### Stable Braid®

PRODUCT CODE **506** (uncoated); **806** (coated)  
CONSTRUCTION/CLASS Double Braid Class I  
FIBER (CORE/COVER): Polyester / Polyester

- > Durable abrasion resistant
- > High resistance to UV degradation
- > High heat resistance
- > Low elongation
- > Excellent flex-fatigue resistance
- > Torque-free
- > Firm flexibility
- > Available with or without Samthane coating

DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
1/2"	8.2 lb	8,800 lb



## PULLING & STRINGING LINES

Samson pulling and stringing lines are available in long lengths and fit any winch on any job. Not only do these lines offer low stretch and durability, but they also have excellent abrasion resistance. There is a wide offering in this category; from economical polyester to low-stretch, low-creep, high-performance fibers. Turn to Samson for the standard in high-end stringing lines in the utility industry.

5/8" diameter specifications shown for comparison, see [SamsonRope.com](http://SamsonRope.com) for full range of sizes and additional specifications. Minimum Break Strengths shown are for spliced rope.

### Tenex™

PRODUCT CODE **826**

CONSTRUCTION/CLASS **12-Strand Single Braid Class I**

FIBER: Polyester

- > High strength-to-weight ratio
- > Single end per carrier
- > Excellent holding ability
- > Abrasion resistant and snag resistant
- > Economical
- > Samthane coated for added durability

DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
5/8"	12.0 lb	15,400 lb

### AmSteel II Plus

PRODUCT CODE **575 (uncoated); 875 (coated)**

CONSTRUCTION/CLASS **Double Braid Class II**

FIBER (CORE/COVER): **Dyneema® / Polyester**

- > Extremely low elongation
- > Lightweight
- > Wire rope replacement
- > Available with or without Samthane coating



DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
5/8"	12.6 lb	28,700 lb

### ML-12™

PRODUCT CODE **815**

CONSTRUCTION/CLASS **12-Strand Single Braid Class II**

FIBER: Dyneema®

- > Light weight
- > High strength
- > Size-for-size, pulls heavier loads than traditional polyester lines
- > Can be downsized to store longer lengths on reels



DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
5/8"	8.9 lb	25,200 lb

### Stable Braid™

PRODUCT CODE **506 (uncoated); 806 (coated)**

CONSTRUCTION/CLASS **Double Braid Class I**

FIBER (CORE/COVER): **Polyester / Polyester**

- > Durable and abrasion resistant
- > High resistance to UV degradation and heat
- > Low elongation
- > Excellent flex-fatigue resistance
- > Torque-free
- > Firm flexibility
- > Available with or without Samthane coating

DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
5/8"	14.0 lb	13,900 lb

### AmSteelBlue™

PRODUCT CODE **872**

CONSTRUCTION/CLASS **12-Strand Single Braid Class II**

FIBER: Dyneema®

- > Maximum strength-to-weight ratio
- > Excellent flex-fatigue resistance
- > Highly abrasion resistant
- > Non-rotational
- > 1/7th the weight of wire with same elongation as wire
- > Wire rope replacement
- > Samthane coated



DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
5/8"	10.2 lb	47,500 lb

### Saturn-12™

PRODUCT CODE **882**

CONSTRUCTION/CLASS **12-Strand Single Braid Class II**

FIBER: Dyneema®

- > Samthane Type E coating increases residual strength by as much as 15–20% and reduces internal yarn-to-yarn abrasion
- > Maximum strength-to-weight ratio
- > Excellent flex-fatigue resistance
- > Decreased coefficient of friction at winch surfaces
- > 1/7th the weight of wire
- > Easy to handle, inspect, and splice



DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
5/8"	10.2 lb	47,500 lb

#### AmSteelBlue Pulls Through for Henkels & McCoy

AmSteelBlue has been an integral component in Henkels & McCoy heavy transmission jobs. "Dollar for dollar, pound for pound, AmSteelBlue's high strength-to-size and -weight ratios are excellent, making it ideal for new installations and reconductor work. Most importantly, it has proven to be **DEPENDABLE** during the most difficult pulling scenarios. AmSteelBlue is our first choice when it comes to lead lines used in Henkels & McCoy pulling operations." Alan Lippy, Director – T&D Henkels & McCoy, Inc.



## HAND LINES

Samson hand lines stand up to rigorous bending through blocks, yet they are still easy on the hands. With excellent grip, there are no slips, which allows the user to easily lift the load. Hand lines are available in economical 3-strand or non-rotational 12-strand constructions. These ropes are backed by the quality for which Samson is known.

1/2" diameter specifications shown for comparison, see [SamsonRope.com](http://SamsonRope.com) for full range of sizes and additional specifications. Minimum Break Strengths shown are for spliced rope.

### Dura-Plex™

PRODUCT CODE **360** (uncoated); 860 (coated)  
CONSTRUCTION/CLASS 12-Strand Single Braid Class I  
FIBER: Polypropylene-Polyester Blend

- > Abrasion resistant
- > Flexible
- > Good grip
- > Holds knots well
- > Won't hockle
- > Available with or without Samthane coating

DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
1/2"	5.8 lb	6,000 lb

### Quik-Splice™

PRODUCT CODE **335**  
CONSTRUCTION/CLASS 12-Strand Single Braid Class I  
FIBER: Ultra Blue Polyolefin

- > Samson's proprietary bi-polymer polyolefin fiber
- > Stronger than standard polypropylene by 30–35%
- > UV stabilized
- > Resists water
- > Excellent wet and dry abrasion resistance

DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
1/2"	4.9 lb	6,000 lb

### Pro-Master™

PRODUCT CODE **168**  
CONSTRUCTION/CLASS 3-Strand Twisted Class I  
FIBER: Ultra Blue Polyolefin-Polyester Blend

- > High-tenacity polyester fiber
- > Balanced construction
- > Low stretch
- > Excellent knot holding
- > Retains shape with use
- > Remains flexible with use
- > Superior hand and lock-grip holding

DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
1/2"	6.5 lb	5,100 lb

### SSR-100-3™

PRODUCT CODE **200**  
CONSTRUCTION/CLASS 3-Strand Twisted Class I  
FIBER: Ultra Blue Polyolefin-Polyester Blend

- > Higher strength than other combination ropes
- > More durable than polypropylene
- > More economical than polyester
- > Hockle resistant
- > Wear resistant
- > Easily spliced in the field

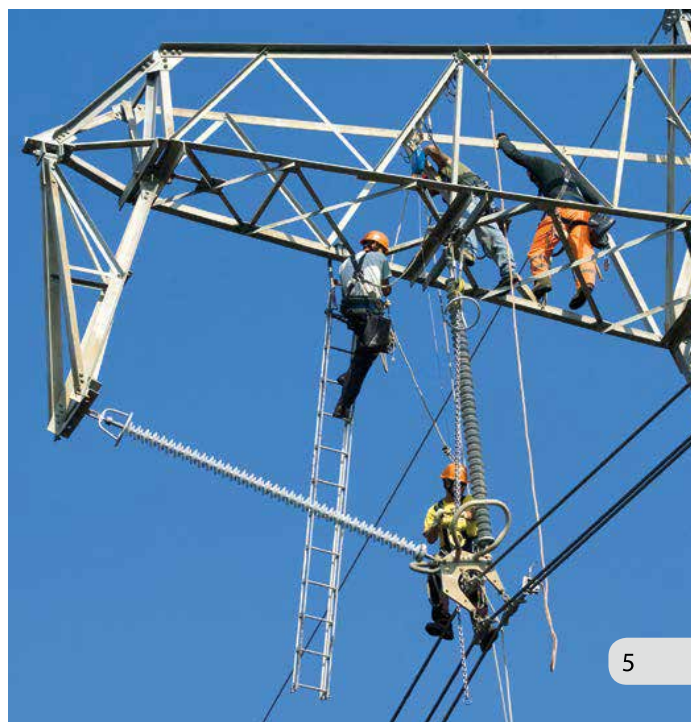
DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
1/2"	6.0 lb	6,200 lb

### Ultra Blue-3™

PRODUCT CODE **130**  
CONSTRUCTION/CLASS 3-Strand Twisted Class I  
FIBER: Ultra Blue Polyolefin

- > Samson's proprietary bi-polymer polyolefin fiber
- > 30–35% stronger than standard polypropylene
- > Wear life is triple of standard polypropylene
- > Excellent grip
- > Water repellent
- > UV resistant
- > Easily spliced in the field
- > Meets IEC dielectric property standards

DIAMETER	WEIGHT PER 100'	MIN. BREAK STRENGTH
1/2"	4.5 lb	5,500 lb



# 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 SHIELDS Product Code: 969

Nylite shields are designed for use with specific rope, spool, and shackle sizes. See chart below for information.

## NYLITE SPOOLS

Product Code: 969



Nylite Spool  
(sizes -1 to -9)



HP Aluminum Spool  
(sizes -1 to -5)

## NYLITE SHACKLES

Product Code: 961



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

## CLASS I ASSEMBLY Nylite Assembly with Nylon Spool

Shackle Type	Product Code	Size	Shield Color	Fits Rope Diameter		Fits Rope Circumference		Samson Minimum Eye Size INCHES	Assembly Working Load TONS	Weight Each POUNDS	Fits Rope Diameter		Fits Rope Circumference		Samson Minimum Eye Size MM	Assembly Working Load METRIC TONS	Weight Each KG
				MIN.	MAX.	MIN.	MAX.				MIN.	MAX.	MIN.	MAX.			
Zinc Plated	964-0320	-1	Blue	3/8"	1/2"	1-1/8"	1-1/2"	2-3/16"	1.1 tons	0.5 lb	9 mm	12 mm	27 mm	36 mm	55.6 mm	1.0 mt	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 lb	14 mm	16 mm	42 mm	48 mm	68.0 mm	1.5 mt	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	2.3 mt	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	4.1 mt	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	6.8 mt	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 lb	36 mm	44 mm	108 mm	132 mm	194 mm	11.3 mt	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	18.1 mt	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	22.7 mt	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	31.8 mt	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	Fits Rope Diameter		Fits Rope Circumference		Samson Minimum Eye Size INCHES	Assembly Working Load TONS	Weight Each POUNDS	Fits Rope Diameter		Fits Rope Circumference		Samson Minimum Eye Size MM	Assembly Working Load METRIC TONS	Weight Each KG
				MIN.	MAX.	MIN.	MAX.				MIN.	MAX.	MIN.	MAX.			
Zinc Plated	964-0321	-1	Blue	3/8"	1/2"	1-1/8"	1-1/2"	2-3/16"	2.7 tons	0.5 lb	9 mm	12 mm	27 mm	36 mm	55.6 mm	2.4 mt	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	4.4 mt	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	5.3 mt	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	10.4 mt	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	12.7 mt	14.9 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.

# Whoopie Sling

This adjustable, load-rated two-eye lifting sling has a permanent eye splice at one end and an adjustable eye at the other end, which allows it to adapt to loads of various sizes. The adjustment allows snug lifting control and minimizes the number of fixed length slings required. Each sling is permanently tagged with its capacity, polybagged, and shipped in a carton.

- > A permanent eye splice at one end and an adjustable eye at the other.
- > Adapts to varying loads.
- > Snug lifting control.
- > Minimizes the number of fixed length slings required.
- > Three sizes to choose from.
- > Permanently tagged with capacity.



Adjustable lifting slings allow snug lifting control and minimize the number of fixed length slings required.

Size INCHES	Color	Unit Weight POUNDS	Adjustment Length FEET	Perm. Eye Size INCHES	Single Leg POUNDS	Choker POUNDS	Basket POUNDS
1/2"	Blue	1.2 lb	2-1/2-4 ft.	5"	2,200 lb	1,760 lb	4,400 lb
5/8"	Red	1.7 lb	3-5 ft.	6"	3,200 lb	2,560 lb	6,400 lb
3/4"	Orange	2.8 lb	3-1/2-6 ft.	7"	4,200 lb	3,380 lb	8,400 lb

\* Rated capacities are for slings in vertical lift use and spliced in accordance with Samson factory procedure.

Rated Capacities\*

## Load Angle Factor

0°	15°	30°	45°	60°	75°
1.00	.966	.866	.707	.500	.259

For angles other than vertical, multiply by the "Load Angle Factor" in the table shown to obtain the reduced rating based on the calculated sling lift angle.



## Hydro One Proves Samson Synthetic Cordage Pulls More than Its Weight

For more than 100 years, Hydro One has supplied power to Ontario, Canada. Today, they are one of North America's largest transmission and distribution companies with almost 30,000 km (18,600 miles) of transmission lines, 281 transmission stations, 1,015 distribution and regulating stations, and 1.3 million customers. Hydro One's mission is to deliver electricity to their consumers safely, while managing their resources with excellence and innovation. That's why they turned to Samson for solutions to a couple of tough jobs.

"Hydro One has historically used AmSteel rigging line," says Jeff Pellar, Work Methods Specialist for Hydro One. "It has proven to be very durable and is a highly valued tool." Their experience with AmSteel a 12-strand single braid made with Dyneema fiber, provided Hydro One with the confidence to explore purchasing long lengths of high-performance synthetic rope for use as pilot, intermediate, and/or bull lines for stringing conductors.

### AmSteel II Plus: A Cost-Saving and Efficient Solution

"By using AmSteel II Plus we were able to remove two steps in the process. And we were able to use the AmSteel II Plus with existing stringing equipment—no special handling or special equipment was necessary the way it is when a very heavy steel bull line is used."

The first project Pellar had in mind was a typical job, calling for a helicopter to fly out a pilot line that would then pull an intermediate line that would pull the bull line, which would pull a two-conductor bundle, with pulling tensions of up to 15,000 lb. "Neither the existing pilot line nor the intermediate line had this much pulling capacity," says Pellar.

Two 30,000-ft lengths of 7/8" Samson AmSteel II Plus, a lightweight, double braid made with a Dyneema fiber core and a polyester cover, was selected to replace both the intermediary line and the bull line due to its superior strength-to-weight ratio, which increased the overall pulling capacity for the job. The greater pulling capacity meant that it was a safer pull and a lightweight solution, because AmSteel II Plus relieved the weight burden by as much as 10 lbs per 100 ft of line compared with the intermediate line.

"By using AmSteel II Plus we were able to remove two steps in the process. And we were able to use the AmSteel II Plus with existing stringing equipment—no special handling or special equipment was necessary the way it is when a very heavy steel bull line is used." An added benefit for Hydro One is the ease of splicing AmSteel II Plus compared with the other product, which Pellar says "is complex to splice and requires special training." Furthermore, Pellar concluded that "tangible cost savings were realized during the installation of conductors on this project due to reduced handling and better utilization of equipment."

### AmSteel More than a Rigging Rope

"The use of high-performance AmSteel eliminated the need for the intermediate line, cutting one step out of the overall operation."

Hydro One's second project called for 500 kV circuits in four-conductor bundles to be pulled simultaneously. This installation, again, called for the use of a pilot line, an intermediate line, and with pulling tensions in excess of 20,000 lb this time, a steel bull line.

Considering the success they had with AmSteel II Plus, Hydro One turned to Samson again, but chose to replace the pilot and intermediate lines with two 30,000-ft lengths of 5/8" AmSteel rope they value and rely on for all their rigging.

"Its light weight and low elongation meant that AmSteel pilot line was light enough for a helicopter to fly out and install stringing blocks, but it was also strong enough to pull in the steel bull line attached to the conductor," explains Pellar. "The use of high-performance AmSteel eliminated the need for the intermediate line, cutting one step out of the overall operation" again demonstrating how Samson stringing lines can save money and make operations more efficient.



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Dyneema is DSM's high-performance polyethylene product.  
AmSteel is a registered trademark of  
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of Samson Rope Technologies, Inc.







**Samson**  
THE STRONGEST NAME IN ROPE

Utility projects test ropes to their limits. Working at heights, lifting or pulling heavy loads and stringing conductors calls for the strongest, most durable and reliable ropes available. Samson has been innovating new constructions, fiber content and coatings to help make the job easier, more efficient, and decidedly safer. Whether you rent specialized equipment or maintain your own yards, the only way to make certain you're using the strongest name in rope is to ASK FOR IT by name.



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