

Class II

The best all-around rope made with Dyneema®, a direct replacement for wire ropes proven to reduce operating costs.

FEATURES:

- > Uses Dyneema® fiber
- > A size-for-size strength replacement for wire rope at only 1/7th the weight
- > Torque-free, very flexible, easy to handle
- > Elastic elongation similar to wire rope
- > Easily inspected or spliced in the field
- > Floats

APPLICATIONS:

- > Heavy lift slings and grommets
- > Winch lines — standard and tapered
- > Primary and temporary vessel/barge mooring lines
- > Seismic tow arrays
- > Rig tow-out lines
- > Ship-to-ship transfer mooring lines

SPECIFICATIONS:

Specific Gravity:

.98 (floats)

Elastic Elongation Percentage:

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

Splicing Procedures Required:

- > EYE SPLICE
 - 12-Strand/Class II Rope
 - 12-Strand Tuck-Bury Splice
- > END-FOR-END SPLICE
 - 12-Strand/Class II Rope

AmSteel®-Blue is Samson's most versatile, torque-free 12-strand braided rope. With well over a decade of service in the most critical marine rope applications, AmSteel®-Blue has proven to be an ideal flexible, lightweight replacement for steel wire ropes. Samson's design uses Dyneema® HMPE fiber to provide the optimum in strength, handling, and service life.

At 1/7th the weight of comparable strength wire ropes, AmSteel®-Blue is an enabling tool in difficult offshore applications. The reduced weight, high-strength, and low stretch make it an easy choice for quick, efficient connections and controlled response. AmSteel®-Blue is proven to provide longer service life and reduced costs when compared to wire in a variety of applications.

Diameter* INCHES	Weight per 100 ft. POUNDS	Samson MBS** POUNDS	Diameter* MILLIMETERS	Weight per 100 meters KILOGRAMS	Samson MBS** METRIC TONS	ISO/BS EN919 METRIC TONS
2 in.	87 lb	343,000 lb	48 mm	129 kg	155 t	173 t
2-1/16 in.	95 lb	376,000 lb	50 mm	141 kg	171 t	190 t
2-1/8 in.	109 lb	411,000 lb	52 mm	162 kg	186 t	207 t
2-1/4 in.	116 lb	484,000 lb	56 mm	173 kg	219 t	244 t
2-1/2 in.	148 lb	529,000 lb	60 mm	220 kg	240 t	267 t
2-5/8 in.	167 lb	595,000 lb	64 mm	248 kg	270 t	300 t
2-3/4 in.	187 lb	662,000 lb	68 mm	278 kg	300 t	333 t
3 in.	206 lb	749,000 lb	72 mm	307 kg	340 t	377 t
3-1/8 in.	228 lb	828,000 lb	76 mm	339 kg	376 t	417 t
3-1/4 in.	240 lb	906,000 lb	80 mm	357 kg	411 t	457 t
3-3/8 in.	242 lb	1,008,000 lb	82 mm	360 kg	457 t	508 t
3-5/8 in.	340 lb	1,313,000 lb	88 mm	506 kg	596 t	662 t
4 in.	399 lb	1,637,000 lb	96 mm	594 kg	743 t	825 t
4-1/4 in.	452 lb	1,826,000 lb	104 mm	673 kg	828 t	920 t
4-1/2 in.	504 lb	2,021,000 lb	108 mm	750 kg	917 t	1,019 t
4-5/8 in.	551 lb	2,216,000 lb	112 mm	820 kg	1,005 t	1,117 t
5 in.	609 lb	2,421,000 lb	120 mm	906 kg	1,098 t	1,220 t
5-1/4 in.	667 lb	2,637,000 lb	128 mm	992 kg	1,196 t	1,329 t
5-1/2 in.	730 lb	2,865,000 lb	136 mm	1,086 kg	1,299 t	1,444 t
5-3/4 in.	793 lb	3,099,000 lb	140 mm	1,180 kg	1,406 t	1,562 t
6 in.	819 lb	3,211,000 lb	144 mm	1,219 kg	1,457 t	1,618 t
6-1/8 in.	861 lb	3,335,000 lb	156 mm	1,281 kg	1,513 t	1,681 t
6-1/4 in.	924 lb	3,581,000 lb	158 mm	1,375 kg	1,624 t	1,805 t
6-1/2 in.	998 lb	3,838,000 lb	165 mm	1,485 kg	1,741 t	1,934 t
6-5/8 in.	1,066 lb	4,104,000 lb	168 mm	1,586 kg	1,862 t	2,068 t
7 in.	1,145 lb	4,370,000 lb	178 mm	1,704 kg	1,982 t	2,203 t
7-1/4 in.	1,229 lb	4,658,000 lb	184 mm	1,829 kg	2,113 t	2,348 t
7-1/2 in.	1,307 lb	4,946,000 lb	191 mm	1,945 kg	2,243 t	2,493 t
7-5/8 in.	1,391 lb	5,243,000 lb	194 mm	2,070 kg	2,378 t	2,642 t
7-3/4 in.	1,428 lb	5,310,000 lb	197 mm	2,125 kg	2,409 t	2,676 t
8 in.	1,470 lb	5,540,000 lb	203 mm	2,187 kg	2,513 t	2,792 t

*Diameter measured under load
 **Minimum Break Strength, spliced



Dyneema® is a registered trademark of Royal DSM N.V.
 Dyneema is DSM's high-performance polyethylene product.



samson
 THE STRONGEST NAME IN ROPE

Considerations for Large Diameter Rope

Information specific to selecting, ordering and using Samson large diameter ropes.



CONSIDERATIONS IMPACTING STRENGTH

Connecting hardware:

- > The size of connecting hardware (i.e., thimbles, shackles, links, etc.) relative to the rope can impact rope strength.
- > For grommet and endless loop configurations Samson recommends a 1.6x multiplier for determining grommet strength. However, this can be greatly impacted by hardware size, and attention should be given when calculating theoretical strength values.

For grommets used in static applications Samson recommends a **MINIMUM diameter for connecting hardware of 3x the rope's diameter:**

- > This D/d ratio impacts the grommet and rope strength, and care should be taken in the design and selection of rigging hardware.

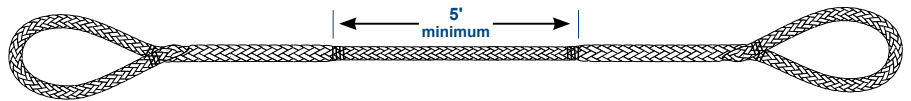
CONSIDERATIONS IMPACTING ELONGATION

Elongation characteristics vary for new and broken-in ropes:

- > Elastic elongation shown represents properties for broken-in rope.
- > For details on elongation characteristics, please contact customer service or engineering.

CONSIDERATIONS FOR ORDER PLACEMENT

- > The minimum order length requirement is 100 feet. Orders between 100 and 300 feet will be accepted with an additional set-up charge.
- > If the required strength is not listed in the charts above, please contact Samson customer service for assistance.



CONSIDERATIONS FOR SPLICING & RIGGING

Samson recommends a minimum distance of 5 feet between the ends of each splice:

- > Some applications may require shorter lengths. Careful consideration should be given to ensure that splices do not come into contact with any bearing points under tension.
- > The distance required between splices (clear rope) will impact the minimum sling fabrication length. All hardware and connections should be figured into the overall length of the rope prior to designing the final sling configuration.
- > Rope will increase in diameter in the splice area. This change is on average 1.75 times the ropes diameter.