

Class II

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

FEATURES:

- > Uses Dyneema® SK-75
- > 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® SK-75 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.

Size Diameter* INCHES	Weight Per 100 feet POUNDS	SRT MBS** POUNDS	Size Diameter* MILLIMETERS	Weight Per 100 meters KILOGRAMS	SRT MBS** METRIC TONS	ISO/BS EN919 MBS 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	748,000 lb	72 mm	307 kg	339 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
3-5/8 in.	340 lb	1,313,000 lb	88 mm	506 kg	596 t	662 t
4 in.	380 lb	1,637,000 lb	96 mm	566 kg	743 t	825 t
4-1/4 in.	430 lb	1,826,000 lb	104 mm	640 kg	828 t	920 t
4-5/8 in.	525 lb	2,216,000 lb	112 mm	781 kg	1,005 t	1,117 t
5 in.	580 lb	2,421,000 lb	120 mm	863 kg	1,098 t	1,220 t
5-1/4 in.	635 lb	2,637,000 lb	128 mm	945 kg	1,196 t	1,329 t
5-1/2 in.	695 lb	2,865,000 lb	136 mm	1,034 kg	1,300 t	1,444 t
6 in.	780 lb	3,211,000 lb	144 mm	1,161 kg	1,457 t	1,618 t
6-1/4 in.	880 lb	3,581,000 lb	158 mm	1,300 kg	1,624 t	1,805 t
6-5/8 in.	1,015 lb	4,104,000 lb	168 mm	1,510 kg	1,862 t	2,068 t
7 in.	1,090 lb	4,370,000 lb	178 mm	1,622 kg	1,982 t	2,203 t
7-1/4 in.	1,170 lb	4,658,000 lb	184 mm	1,741 kg	2,113 t	2,348 t
7-5/8 in.	1,325 lb	5,243,000 lb	194 mm	1,972 kg	2,378 t	2,643 t
8 in.	1,400 lb	5,540,000 lb	203 mm	2,084 kg	2,513 t	2,792 t

*Diameter measured under load

**Spliced strength



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Dyneema is DSM's high-performance polyethylene product.



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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.

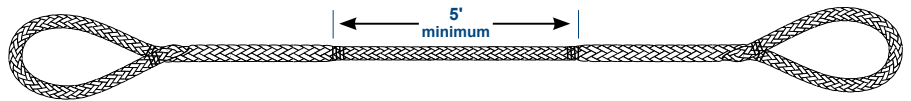
CONSIDERATIONS IMPACTING ELONGATION

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.



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