

Recognized worldwide as the standard for single braid HMPE ropes

AmSteel®-Blue is a torque-free 12-strand single braid that size for size, is as strong as steel but outlasts wire 3:1, making it an excellent wire rope replacement. At only 1/7th the weight of wire, it is a safe and efficient solution for all marine applications where wire is traditionally used. The combination of Dyneema® fiber and Samthane coating provide abrasion and tension fatigue resistance for superior wear. AmSteel®-Blue is easily spliced and inspected.

AmSteel®-Blue is recommended for split-drum winch applications. It is not recommended for use on H-bitts, capstans, or cleats if surging or rendering the rope is required.

FEATURES AND BENEFITS

- > Made with Dyneema®
- > Wire rope replacement
- > Size for size as strong as wire
- > 1/7th the weight of wire
- > Similar elastic elongation to wire rope
- > Torque free
- > Flexible
- > Easy to inspect
- > Easy to splice in the field
- > Floats

APPLICATIONS

VESSEL MOORING

- > First line ashore/emergency towing system
- > General working line
- > Primary mooring line

TUG

- > Face and wing wire
- > Mainline
- > Messenger line
- > Pendant
- > Winch line

OFFSHORE

- > Lifting sling
- > Synthetic extension pendant
- > Winch line
- > Working line

COMMERCIAL FISHING

- > Trawl or bridle line
- > Gilson wire rope replacement

SPECIFICATIONS¹

FIBER: Dyneema®

SPECIFIC GRAVITY: 0.98 (floats)

STANDARD COLOR: Blue (also available by special order in red, green, and orange)

ELASTIC ELONGATION PERCENTAGE

At % of break strength

- 10% 0.46%
- 20% 0.70%
- 30% 0.96%

SPLICE: 12-strand Class II

¹Due to our continued research and development of product performance, the specifications listed herein are subject to change. For the most current sizes, weights, and strengths, go to SamsonRope.com.

WITH
Dyneema®

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
7/64"	5/16"	0.30 lb	1,400 lb	2.5 mm	0.45 kg	0.65 t	0.73 t
1/8"	3/8"	0.50 lb	2,300 lb	3 mm	0.74 kg	1.0 t	1.1 t
5/32"	15/32"	0.75 lb	3,600 lb	4 mm	1.1 kg	1.6 t	1.8 t
3/16"	9/16"	1.0 lb	4,900 lb	5 mm	1.5 kg	2.2 t	2.4 t
1/4"	3/4"	1.6 lb	7,700 lb	6 mm	2.4 kg	3.5 t	3.9 t
5/16"	1"	2.7 lb	12,300 lb	8 mm	4.0 kg	5.6 t	6.2 t
3/8"	1-1/8"	3.6 lb	17,600 lb	9 mm	5.4 kg	8.0 t	8.9 t
7/16"	1-1/4"	4.2 lb	21,500 lb	11 mm	6.2 kg	9.8 t	10.8 t
1/2"	1-1/2"	6.4 lb	30,600 lb	12 mm	9.5 kg	13.9 t	15.4 t
9/16"	1-3/4"	7.9 lb	36,500 lb	14 mm	11.8 kg	16.5 t	18.4 t
5/8"	2"	10.2 lb	47,500 lb	16 mm	15.2 kg	21.6 t	24.0 t
3/4"	2-1/4"	13.3 lb	58,000 lb	18 mm	19.8 kg	26.3 t	29.2 t
13/16"	2-1/2"	17.0 lb	73,800 lb	20 mm	25.3 kg	33.5 t	37.2 t
7/8"	2-3/4"	19.6 lb	81,700 lb	22 mm	29.2 kg	37.1 t	41.2 t
1"	3"	21.8 lb	98,100 lb	24 mm	32.4 kg	44.5 t	49.4 t
1-1/16"	3-1/4"	27.5 lb	118,000 lb	26 mm	40.9 kg	53.6 t	59.6 t
1-1/8"	3-1/2"	31.9 lb	133,000 lb	28 mm	47.5 kg	60.4 t	67.1 t
1-1/4"	3-3/4"	36.2 lb	149,000 lb	30 mm	53.9 kg	67.5 t	75.0 t
1-5/16"	4"	41.8 lb	166,000 lb	32 mm	62.2 kg	75.2 t	83.6 t
1 3/8"	4-1/8"	45.0 lb	185,000 lb	34 mm	67.0 kg	83.9 t	93.2 t
1-1/2"	4-1/2"	51.7 lb	205,000 lb	36 mm	76.9 kg	93.0 t	103 t
1 9/16"	4-3/4"	57.6 lb	229,000 lb	38 mm	85.7 kg	104 t	115 t
1-5/8"	5"	65.2 lb	255,000 lb	40 mm	97.0 kg	116 t	128 t
1-11/16"	5-1/4"	71.0 lb	276,000 lb	42 mm	106 kg	125 t	139 t
1-3/4"	5-1/2"	78.4 lb	302,000 lb	44 mm	117 kg	137 t	152 t
2"	6"	87.0 lb	343,000 lb	48 mm	129 kg	155 t	173 t
2-1/16"	6-1/4"	95.0 lb	376,000 lb	50 mm	141 kg	171 t	190 t
2-1/8"	6-1/2"	109 lb	411,000 lb	52 mm	162 kg	186 t	207 t
2-1/4"	7"	116 lb	484,000 lb	56 mm	173 kg	219 t	244 t
2-1/2"	7-1/2"	148 lb	529,000 lb	60 mm	220 kg	240 t	267 t
2-5/8"	8"	167 lb	595,000 lb	64 mm	248 kg	270 t	300 t
2-3/4"	8-1/2"	187 lb	662,000 lb	68 mm	278 kg	300 t	333 t
3"	9"	206 lb	749,000 lb	72 mm	307 kg	340 t	377 t
3-1/8"	9-1/2"	228 lb	828,000 lb	76 mm	339 kg	376 t	417 t
3-1/4"	10"	240 lb	906,000 lb	80 mm	357 kg	411 t	457 t
3-3/8"	10-1/8"	242 lb	1,008,000 lb	82 mm	360 kg	457 t	508 t

*Spliced strength ** This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths.

LARGER SIZES CONTINUED ON THE BACK...

Proven to be the best all-around wire rope replacement

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
3-5/8"	11"	340 lb	1,313,000 lb	88 mm	506 kg	596 t	662 t
4"	12"	399 lb	1,637,000 lb	96 mm	594 kg	743 t	825 t
4-1/4"	13"	452 lb	1,826,000 lb	104 mm	673 kg	828 t	920 t
4-1/2"	13-1/2"	504 lb	2,021,000 lb	110 mm	750 kg	917 t	1,019 t
4-5/8"	14"	551 lb	2,216,000 lb	112 mm	820 kg	1,005 t	1,117 t
5"	15"	609 lb	2,421,000 lb	120 mm	906 kg	1,098 t	1,220 t
5-1/4"	16"	667 lb	2,637,000 lb	128 mm	992 kg	1,196 t	1,329 t
5-1/2"	16-1/2"	730 lb	2,865,000 lb	134 mm	1,086 kg	1,299 t	1,444 t
5-3/4"	17-1/4"	793 lb	3,099,000 lb	146 mm	1,180 kg	1,406 t	1,562 t
6"	18"	819 lb	3,211,000 lb	152 mm	1,219 kg	1,457 t	1,618 t
6-1/8"	18-1/2"	861 lb	3,335,000 lb	156 mm	1,281 kg	1,513 t	1,681 t
6-1/4"	19"	924 lb	3,581,000 lb	158 mm	1,375 kg	1,624 t	1,805 t
6-1/2"	19-1/2"	998 lb	3,838,000 lb	164 mm	1,485 kg	1,741 t	1,934 t
6-5/8"	20"	1,066 lb	4,104,000 lb	168 mm	1,586 kg	1,862 t	2,068 t
7"	21"	1,145 lb	4,370,000 lb	178 mm	1,704 kg	1,982 t	2,203 t
7-1/4"	22"	1,229 lb	4,658,000 lb	184 mm	1,829 kg	2,113 t	2,348 t
7-1/2"	22-1/2"	1,307 lb	4,946,000 lb	190 mm	1,945 kg	2,243 t	2,493 t
7-5/8"	23"	1,391 lb	5,243,000 lb	194 mm	2,070 kg	2,378 t	2,642 t
7-3/4"	23-1/4"	1,428 lb	5,310,000 lb	196 mm	2,125 kg	2,409 t	2,676 t
8"	24"	1,470 lb	5,540,000 lb	204 mm	2,187 kg	2,513 t	2,792 t

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CONSIDERATIONS FOR LARGE DIAMETER ROPE Sizes 3-5/8" (88-mm) diameter and above

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

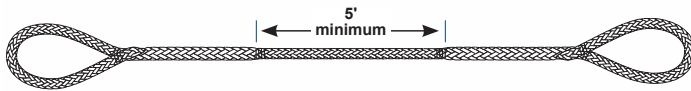
Elongation characteristics vary for new and broken-in ropes:

- > For details on elongation characteristics, please contact customer service or engineering.

CONSIDERATIONS FOR ORDER PLACEMENT

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

CONSIDERATIONS FOR SPLICING & RIGGING



Samson recommends a minimum distance of 5 ft 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 1.75x the ropes diameter.

