

AmSteel®-Blue

12-STRAND CLASS II

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

SPECIFICATIONS[†]

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/CLASS: 12-strand Class II

[†]Due 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
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

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