

**12**  
STRAND  
CONSTRUCTION

## AmSteel-Blue Product Code: 872

**Class II**

**The best all-around Dyneema® fiber rope, a direct replacement for wire ropes proven to reduce tug assist and mooring costs**

**FEATURES:**

- > Uses Dyneema® SK-75 HMPE fiber
- > A size for size strength replacement for wire rope at only 1/7th the weight
- > Torque-free, very flexible, easy to handle
- > Similar elastic elongation to wire rope
- > Easily inspected or field spliced
- > Floats

**APPLICATIONS:**

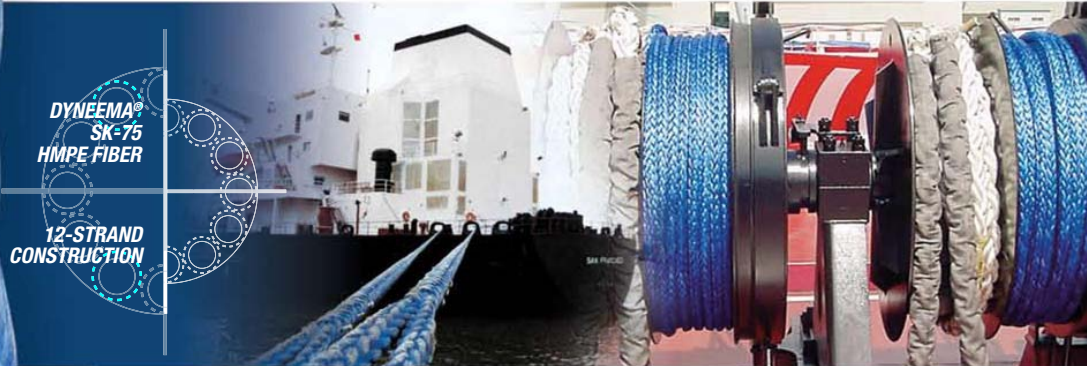
- > Primary vessel mooring lines
- > Tractor tug lines
- > Face and wing wires for push tugs
- > Emergency and seismic tow lines

AmSteel-Blue is a proven cost-saving replacement for wire rope in key applications where strength, weight and safety are important.

Recognized worldwide as the standard for single braid HMPE ropes, AmSteel-Blue is easily spliced and inspected. These features, with the superior wear and tension fatigue of Dyneema® SK-75 fiber and Samthane coating, are combined in a torque-free 12-strand single braid design. The result is an industry leading braided synthetic rope that outlasts wire rope and has proven operator cost saving benefits.

AmSteel-Blue, at only 1/7th the weight of wire, requires less committed crew for most operations, significantly reduces mooring times and tug costs, and improves crew safety. The reduced weight, high strength and low stretch also make it ideal for tug assist/maneuvering lines, resulting in 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.

Standardized working pendants are available for mooring and tug assist lines, see pages (8 & 9). AmSteel-Blue is recommended for split drum winch applications, not recommended for use on H-bits, capstans or cleats if surging or rendering the rope is required.



Size Diameter INCHES	Size Circumference INCHES	Weight Per 100 FT. POUNDS	SRT MBS* POUNDS	Size Diameter MILLIMETERS	Weight Per 100 M KILOGRAMS	SRT MBS* METRIC TONNES	ISO/BS EN919 MBS METRIC TONNES
3/16 in.	9/16 in.	1.0 lbs.	4,900 lbs.	5mm	1.5 Kg	2.2 MT	2.4 MT
1/4 in.	3/4 in.	1.6 lbs.	7,700 lbs.	6mm	2.4 Kg	3.5 MT	3.9 MT
5/16 in.	1 in.	2.7 lbs.	12,300 lbs.	8mm	4.0 Kg	5.6 MT	6.2 MT
3/8 in.	1-1/8 in.	3.6 lbs.	17,600 lbs.	9mm	5.4 Kg	8.0 MT	8.9 MT
7/16 in.	1-1/4 in.	4.2 lbs.	21,500 lbs.	11mm	6.2 Kg	9.8 MT	10.8 MT
1/2 in.	1-1/2 in.	6.4 lbs.	30,600 lbs.	12mm	9.5 Kg	13.9 MT	15.4 MT
9/16 in.	1-3/4 in.	7.9 lbs.	36,500 lbs.	14mm	11.8 Kg	16.5 MT	18.4 MT
5/8 in.	2 in.	10.2 lbs.	47,500 lbs.	16mm	15.2 Kg	21.5 MT	23.9 MT
3/4 in.	2-1/4 in.	13.3 lbs.	58,000 lbs.	18mm	19.8 Kg	26.3 MT	29.2 MT
7/8 in.	2-3/4 in.	19.6 lbs.	81,700 lbs.	22mm	29.2 Kg	37.1 MT	41.2 MT
1 in.	3 in.	21.8 lbs.	98,100 lbs.	24mm	32.4 Kg	44.5 MT	49.4 MT
1-1/16 in.	3-1/4 in.	27.5 lbs.	118,000 lbs.	26mm	40.9 Kg	53.6 MT	59.6 MT
1-1/8 in.	3-1/2 in.	31.9 lbs.	133,000 lbs.	28mm	47.5 Kg	60.4 MT	67.1 MT
1-1/4 in.	3-3/4 in.	36.2 lbs.	149,000 lbs.	30mm	53.9 Kg	67.5 MT	75.0 MT
1-5/16 in.	4 in.	41.8 lbs.	166,000 lbs.	32mm	62.2 Kg	75.2 MT	83.6 MT
1-3/8 in.	4-1/8 in.	45.0 lbs.	185,000 lbs.	34mm	67.0 Kg	83.9 MT	93.2 MT
1-1/2 in.	4-1/2 in.	51.7 lbs.	205,000 lbs.	36mm	76.9 Kg	93.0 MT	103.0 MT
1-5/8 in.	5 in.	65.2 lbs.	255,000 lbs.	40mm	97.0 Kg	116.0 MT	128.0 MT
1-3/4 in.	5-1/2 in.	78.4 lbs.	302,000 lbs.	44mm	117.0 Kg	137.0 MT	152.0 MT
2 in.	6 in.	87.0 lbs.	343,000 lbs.	48mm	129.0 Kg	155.0 MT	173.0 MT
2-1/8 in.	6-1/2 in.	109.0 lbs.	411,000 lbs.	52mm	162.0 Kg	186.0 MT	207.0 MT
2-1/4 in.	7 in.	116.0 lbs.	484,000 lbs.	56mm	173.0 Kg	219.0 MT	244.0 MT
2-1/2 in.	7-1/2 in.	148.0 lbs.	529,000 lbs.	60mm	220.0 Kg	240.0 MT	267.0 MT
2-5/8 in.	8 in.	167.0 lbs.	595,000 lbs.	64mm	248.0 Kg	270.0 MT	290.0 MT
2-3/4 in.	8-1/2 in.	187.0 lbs.	662,000 lbs.	68mm	278.0 Kg	300.0 MT	333.0 MT
3 in.	9 in.	206.0 lbs.	748,000 lbs.	72mm	307.0 Kg	339.0 MT	377.0 MT
3-1/4 in.	10 in.	240.0 lbs.	906,000 lbs.	80mm	357.0 Kg	411.0 MT	457.0 MT

\*Spliced strength

**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
- > **END FOR END SPLICE**  
12-Strand/Class II Rope

