

# Quantum-12

12-STRAND CLASS II



## A lightweight, high-strength rope that grips hardware

Quantum-12 is a lightweight, high-strength, floating rope that grips hardware. The patented DPX™ fiber technology provides superior abrasion and cut resistance, but with a higher coefficient of friction than other high modulus polyethylene ropes. The 12-strand construction provides added flexibility, improved handling, and easy splicing. The vivid green Samthane coating provides excellent visibility and additional abrasion resistance.

### FEATURES AND BENEFITS

- > Wire replacement
- > Abrasion resistant
- > Flexible
- > Excellent grip
- > Lightweight
- > Floats
- > Easy to handle
- > Easy to inspect
- > Easy to splice

### APPLICATIONS

#### VESSEL MOORING

- > General working line
- > Primary mooring line
- > Secondary mooring line

#### TUG

- > Barge tie-up line
- > H-bitt working line
- > Mainline
- > Pendant
- > Winch line

#### OFFSHORE

- > Lifting sling
- > Winch line
- > Working line

#### COMMERCIAL FISHING

- > Other fishing lines

### SPECIFICATIONS†

FIBER: Dyneema®Polyester Blend

SPECIFIC GRAVITY: 0.99 (floats)

STANDARD COLOR: Vivid Green

ELASTIC ELONGATION PERCENTAGE

At % of break strength

10% ..... 0.65%

20% ..... 0.75%

30% ..... 0.90%

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.*



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
3/4"	2-1/4"	11.8 lb	40,800 lb	18 mm	17.6 kg	18.5 t	20.5 t
7/8"	2-3/4"	15.2 lb	56,300 lb	22 mm	22.6 kg	25.5 t	28.4 t
1"	3"	21.0 lb	74,300 lb	24 mm	31.2 kg	33.7 t	37.4 t
1-1/8"	3-1/2"	25.5 lb	94,500 lb	28 mm	37.9 kg	42.9 t	47.6 t
1-1/4"	3-3/4"	31.0 lb	118,000 lb	30 mm	46.1 kg	53.5 t	59.4 t
1-5/16"	4"	33.0 lb	131,000 lb	32 mm	49.1 kg	59.6 t	66.2 t
1-3/8"	4-1/8"	37.5 lb	146,000 lb	34 mm	55.8 kg	66.1 t	73.5 t
1-1/2"	4-1/2"	44.7 lb	172,000 lb	36 mm	66.5 kg	78.0 t	86.6 t
1-5/8"	5"	50.0 lb	203,000 lb	40 mm	74.4 kg	92.3 t	103 t
1-3/4"	5-1/2"	60.8 lb	239,000 lb	44 mm	90.5 kg	108 t	120 t
2"	6"	79.4 lb	314,000 lb	48 mm	118 kg	142 t	158 t
2-1/8"	6-1/2"	89.6 lb	357,000 lb	52 mm	133 kg	162 t	180 t
2-1/4"	7"	100 lb	403,000 lb	56 mm	149 kg	183 t	203 t
2-3/8"	7-1/8"	112 lb	453,000 lb	57 mm	167 kg	205 t	228 t
2-1/2"	7-1/2"	125 lb	506,000 lb	60 mm	186 kg	229 t	255 t
2-5/8"	8"	138 lb	563,000 lb	64 mm	205 kg	255 t	284 t
2-3/4"	8-1/2"	155 lb	614,000 lb	68 mm	231 kg	278 t	309 t
3"	9"	179 lb	726,000 lb	72 mm	266 kg	329 t	366 t
3-1/4"	10"	213 lb	849,000 lb	80 mm	317 kg	385 t	428 t
3-5/8"	11"	266 lb	1,050,000 lb	88 mm	396 kg	476 t	529 t
4"	12"	324 lb	1,272,000 lb	96 mm	482 kg	577 t	641 t
4-1/4"	13"	366 lb	1,428,000 lb	104 mm	545 kg	648 t	720 t
4-5/8"	14"	447 lb	1,682,000 lb	112 mm	665 kg	763 t	848 t
5"	15"	523 lb	1,956,000 lb	120 mm	778 kg	887 t	986 t

\*Spliced strength \*\* This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths. Larger sizes available, contact customer service for details.

Please see large diameter rope considerations, for sizes 3-5/8" (88-mm) diameter and above, on p E-3.

