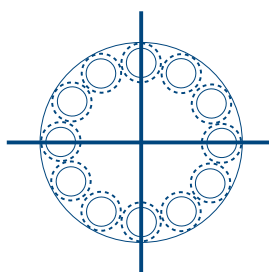


# Quantum-X™

Samson engineers have taken one of our most popular and dependable working lines, QUANTUM™-12, and added the latest high-performance fiber technology and construction enhancements. The result the high-performance ropes, Quantum-X.



## Description



Quantum-X is a 12-strand rope that has been engineered for X'tra performance: better snag resistance, higher coefficient of friction, enhanced cyclical bend over sheave (CBOS), and creep performance. It is lightweight, highstrength, floats, is flexible, and easy to handle and splice. QUANTUM-X utilizes Dyneema® SK78 fiber, a new fiber based on the same technology that has made Dyneema® high modulus polyethylene (HMPE) fiber the best performing, most consistent fiber for use in rope and cordage products. It also utilizes Samson's patented DPX™ fiber technology. This unique process incorporates a textured fiber on the surface of the high modulus Dyneema® fiber yarns. The result is a rope that maintains the advantages of Dyneema®; extreme strength and light weight, cut and abrasion resistance, and adds a higher coefficient of friction for use where enhanced grip is critical.

**Product Code:**

847

**Fiber (Core/Cover):**

Dyneema®-Polyester Blend

**Specific Gravity:**

0.99 (floats)

**Splice:**

12 - Strand Class II

**Manufacturer:**

Samson Rope Technologies, Inc.

## Features

- Easy to handle
- Easy to inspect
- Easy to splice
- Enhanced abrasion resistance
- Enhanced grip from patented DPX™ fiber technology
- Flexible
- Floats
- High coefficient of friction
- High strength
- Lightweight
- Reduced creep in applications with static load
- Samthane coated
- Snag resistant

## Applications

- Barge Tie-Up Line
- General Working Line / Vessel Mooring
- H-Bitt Working Line / Tug Assist
- Lifting Sling / Offshore
- Primary Mooring Line / Non-jacketed
- Secondary Mooring Line
- Tug Mainline
- Tug Pendant
- Winch Line / Offshore
- Winch Line / Tug
- Working Line / Offshore

# Quantum-X™

## Specifications

MATERIALS | QUANTUM-X

Diameter (in)	Circum. (in)	Weight per 100 ft. (lbs.)	Average Strength (lbs)	Minimum Strength (lbs)	Diameter (mm)	Circum. (mm)	Weight per 100M	Average Strength (kg)	Minimum Strength (kg)	ISO 2307 Strength (mt)
3/4	2-1/4	12.6	48,500	43,700	18	54	18.7	22,000	19,800	22.0
7/8	2-3/4	16.8	64,700	58,200	22	66	25.0	29,300	26,400	29.3
1	3	21.6	84,600	76,100	24	72	32.1	38,400	34,500	38.4
1-1/8	3-1/2	26.4	104,000	93,600	28	84	39.3	47,200	42,500	47.2
1-1/4	3-3/4	32.7	132,000	119,000	30	90	48.7	59,900	53,900	59.9
1-5/16	4	34.2	141,000	127,000	32	96	50.9	64,000	57,600	64.0
1-3/8	4-1/8	38.9	160,000	144,000	34	100	57.9	72,600	65,300	72.6
1-1/2	4-1/2	45.5	187,000	168,000	36	108	67.7	84,800	76,300	84.8
1-5/8	5	52.7	218,000	196,000	40	120	78.4	98,900	89,000	98.9
1-3/4	5-1/2	61.6	258,000	232,000	44	132	91.7	117,000	105,000	117
2	6	78.2	334,000	301,000	48	144	116	152,000	136,000	152
2-1/8	6-1/2	89.4	382,000	344,000	52	156	133	173,000	156,000	173
2-1/4	7	97.8	416,000	374,000	56	168	146	189,000	170,000	189
2-1/2	7-1/2	123	542,000	488,000	60	180	183	246,000	221,000	246
2-5/8	8	134	591,000	532,000	64	192	199	268,000	241,000	268
2-3/4	8-1/2	146	651,000	586,000	68	204	217	295,000	266,000	295
3	9	174	779,000	701,000	72	216	259	353,000	318,000	353
3-1/4	10	205	925,000	833,000	80	240	305	420,000	378,000	420

\* ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

MATERIALS

