

X21

Extra Line Double Braid Mooring Line



The rope is composed of a wear-resistant polyester rope cover and a super-strong nylon rope core. The specific double braid construction design delivers maximum strength. The cover of the rope is made of polyester fiber material with excellent wear-resistance, combined with a specialized twisting process to maximize wear-resistance. Designed with a round, robust profile, the rope offers effortless handling and reduced risk of winding or knotting. Compared with HMPE and polyester ropes, X21 has higher elongation, fully absorbs impact forces from waves and sand, and provides better safety protection for ships.



Can be certified by



ROPERS
RELIABLE TO THE CORE

TECHNICAL INFORMATION

CORE	Nylon
COVER	Polyester
SPECIFIC GRAVITY	1.24
CONSTRUCTION	Double Braided
MELTING POINT	482°F (250 °C)/ 428°F (220 °C)
CRITICAL TEMP	350°F (177 °C)/ 329°F (165 °C)
ELONGATION AT 30% BREAK	9.7%
WATER ABSORPTION	3-5%



High-tenacity polyester cover with a high-tenacity nylon core



Excellent abrasion resistance



Flexible



Torque-free

Diameter		Weight		Minimum Strength ISO Unspliced Rope	
mm	inch	kg/100m	lbs/100ft	kgf	lbs
22	7/8	36.8	24.68	14,000	30,800
24	1	43.8	29.37	16,600	36,400
26	1 1/16	50.7	34.00	19,200	42,300
28	1 1/8	59.5	39.90	22,200	48,900
30	1 1/4	68.3	45.76	25,300	55,700
38	1 1/2	98.5	66.05	35,800	78,700
40	1 5/8	121.5	81.47	43,700	96,100
44	1 3/4	154.0	103.26	54,700	120,300
48	2	190.0	127.40	66,800	146,900
56	2 1/4	230.0	154.22	80,000	176,000
60	2 3/8	275.5	184.73	96,700	212,700
64	2 5/8	322.5	216.25	109,600	241,000
68	2 11/16	372.5	249.77	124,400	273,800
76	3 1/8	417.5	279.95	142,700	313,900
80	3 1/4	486.5	326.21	161,100	354,400
88	3 7/16	615.5	412.71	204,400	449,800
96	3 3/4	686.0	459.98	224,400	493,800
100	4	761.5	510.61	248,900	547,600

Diameter, weight and MBS are determined in accordance with ISO 2307:2019. Specifications are for unspliced strengths, strength will decrease by about 10% after splicing. Custom diameter and length available by request.

Warning: The minimum breaking strength must never be regarded as the safe working load of the rope.

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ROPER'S
RELIABLE TO THE CORE