


OPTIMA 5

Premium UHMWPE Synthetic Fiber Rope

Optima 5 is made of premium Ultra-High Molecular Weight Polyethylene (UHMWPE) fiber and is the highest strength synthetic fiber rope available made by ROPERS. Combined with two-color anti-twist identification design, Optima 5 strengthens the protection with the working environment, and the bright two-color identification design can effectively prevent the distortion during operation and avoid the loss of strength.







The Optima 5 ropes are suitable for all types of vessels, ranging from small boats, fishing vessels, and yachts, to barges, ferries, cruise ships, and LNG carriers, and even to large container ships, bulk carriers. It is the premier choice for all vessels.



 Multi-color and permanent twist identification	 Traceable product information	 Extremely low elongation improves use efficiency	 Perfect bending fatigue and relaxation fatigue	 Extremely high strength	 Superior wear resistance
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Technical Information

 0.98 SPECIFIC GRAVITY	 12×12 STRUCTURE
 280°F (140°C) MELTING POINT	 130°F (65°C) CRITICAL TEMP
 3.77% ELONGATION AT 50% BREAK	 0 WATER ABSORPTION



Diameter		Weight		Minimum Breaking Strength ISO Unspliced Rope	
inch	mm	lbs/100ft	kg/100m	lbs	kg
1	24	22.1	33.0	127,200	57,800
1 1/16	26	27.2	40.5	149,400	67,900
1 1/8	28	31.9	47.5	166,300	75,600
1 1/4	30	35.2	52.5	189,400	86,100
1 5/16	32	40.9	61.0	222,400	101,100
1 1/2	36	49.7	74.1	251,700	114,400
1 5/8	40	63.0	94.0	325,200	147,800
1 3/4	44	77.1	115.0	359,300	163,300
2	48	85.8	128.0	400,800	182,200
2 1/8	52	105.3	157.0	484,000	220,000
2 1/4	56	114.2	170.3	537,700	244,400
2 1/2	60	144.2	215.0	611,200	277,800
2 5/8	64	152.9	228.0	667,300	303,300
2 3/4	68	172.3	257.0	810,300	368,300
3	72	192.4	287.0	900,000	409,100
3 1/8	76	214.6	320.0	987,800	449,000
3 1/4	80	237.4	354.0	1,012,000	460,000
3 5/8	88	279.6	417.0	1,209,600	549,800
4	96	333.3	497.0	1,436,800	653,100
4 1/8	100	361.6	539.3	1,528,100	694,600
4 1/4	104	391.1	583.3	1,619,600	736,200
4 1/2	108	421.8	629.0	1,711,800	778,100
4 5/8	112	453.6	676.5	1,804,200	820,100
5	120	520.7	776.6	2,029,700	922,600
5 1/8	124	565.0	842.6	2,158,200	981,000

Diameter, weight and MBS are determined in accordance with ISO 2307:2010. Custom size and length available by request.





ROPERS

RELIABLE TO THE CORE



OPTIMA 3

General UHMWPE Synthetic Fiber Rope

- High strength
- General Purpose
- Available in multiple colors

OPTIMA 5

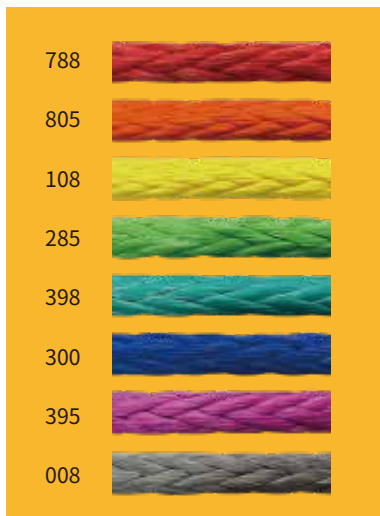
Premium UHMWPE Synthetic Fiber Rope

- Superior strength
- Twist resistant identification
- Various coating design

OPTIMA 7

Ultra High Performance HMPE Rope

- Ultra high strength
- Lighter weight
- Ultra low stretch



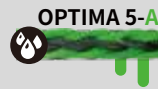
Coating Type



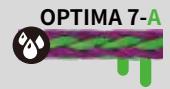
H type, Improve rope grip and stability



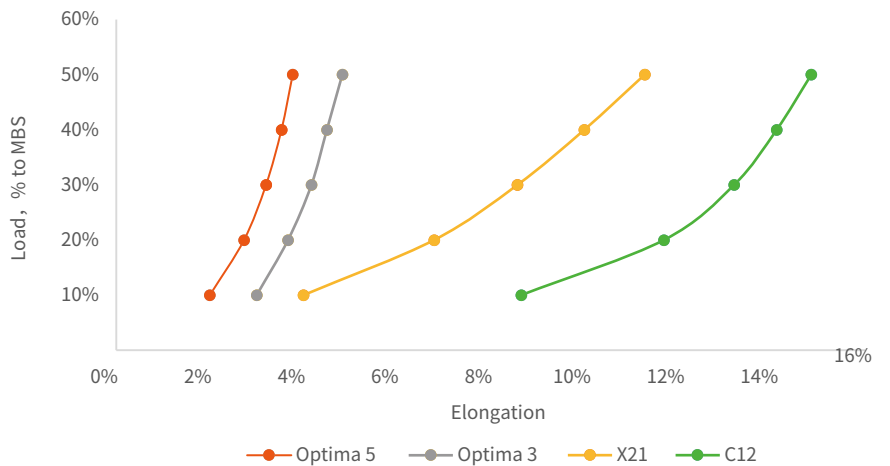
L type, Optimizes the rope's surface wear resistance, making it smoother



A type, functional for water repellent, oil repellent and antifouling



Elongation



ROPERS ROPE



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