

OPTIMA

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 strengthen 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



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 Strength Spliced Rope	Minimum Strength ISO Unspliced Rope
mm	kg/100m	kg	kg
24	33.0	52,000	57,800
26	40.5	61,100	67,900
28	47.5	68,000	75,600
30	52.5	77,500	86,100
32	61.0	91,000	101,100
36	74.1	103,000	114,400
40	94.0	134,000	148,900
44	115.0	147,000	163,300
48	128.0	164,000	182,200
52	157.0	198,000	220,000
56	170.3	220,000	244,400
60	215.0	250,000	277,800
64	228.0	273,000	303,300
68	257.0	331,500	368,300
72	310.0	368,200	409,100
76	330.0	404,100	449,000
80	385.0	450,000	500,000
88	506.0	601,000	667,800
96	628.0	743,000	825,600
100	679.0	787,000	874,400

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



ROPERS ROPE



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www.ropersrope.com



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



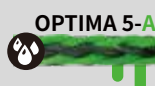
Coating Type



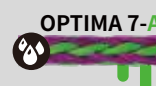
H type, Improve rope grip and stability



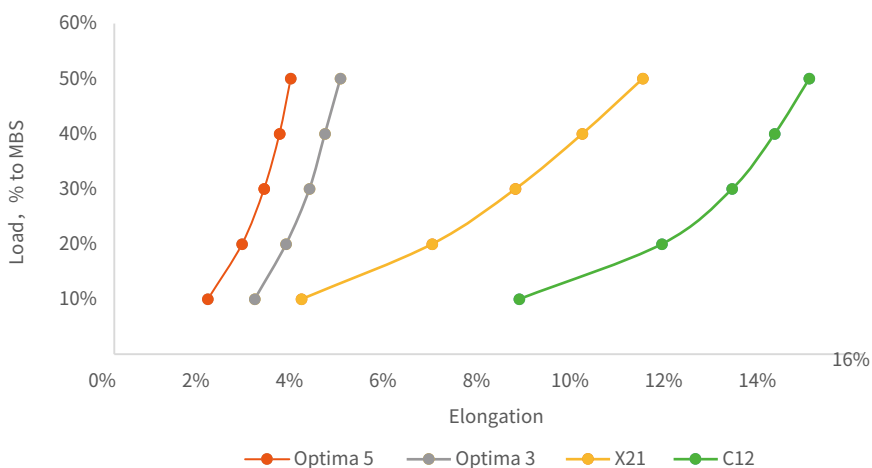
L type, Optimizes the rope's surface wear resistance, making it smoother



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



Elongation



ROPERS ROPE



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