

# 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.



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

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



Diameter	Weight	Minimum Strength Spliced Rope	Minimum Strength ISO Unspliced Rope
inch	lbs/100ft	lbs	lbs
1	22.1	114,400	127,200
1 1/16	27.1	134,400	149,400
1 1/8	31.8	149,600	166,300
1 1/4	35.2	170,500	189,400
1 5/16	40.9	200,200	222,400
1 1/2	49.6	226,600	251,700
1 5/8	63.0	294,800	327,600
1 3/4	77.0	323,400	359,300
2	85.7	360,800	400,800
2 1/8	105.1	435,600	484,000
2 1/4	114.1	484,000	537,700
2 1/2	144.0	550,000	611,200
2 5/8	152.7	600,600	667,300
2 3/4	172.1	729,300	810,300
3	207.6	810,000	900,000
3 1/8	221.0	889,000	987,800
3 1/4	257.8	990,000	1,100,000
3 5/8	338.9	1,322,200	1,469,200
4	420.6	1,635,000	1,816,000
4 1/8	454.7	1,731,400	1,923,700

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



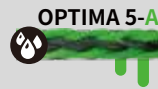
### Coating Type



H type, Improve rope grip and stability



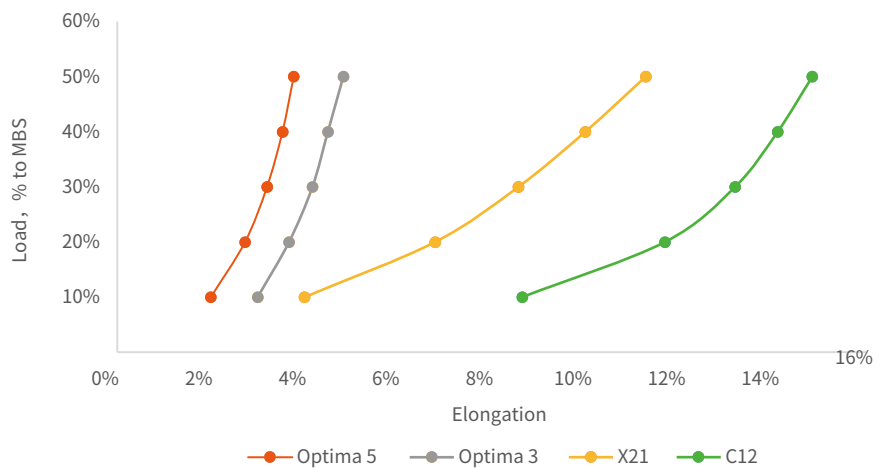
L type, Optimizes the rope's surface wear resistance, making it smoother



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



### Elongation



ROPERS ROPE



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