

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 inch	Weight lbs/100ft	Minimum Strength Spliced Rope lbs	Minimum Strength ISO Unspliced Rope 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 ROPE



sales@ropers.com.tw



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

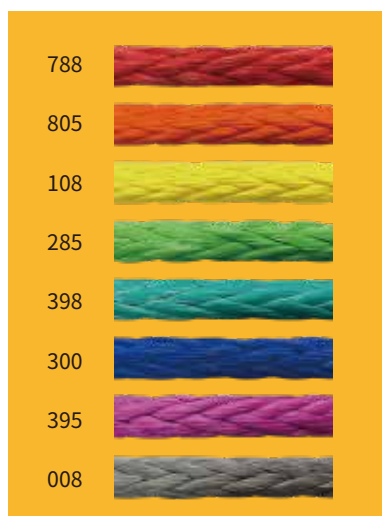
- Superior strength
- Twist resistant identification
- Various coating design

OPTIMA 7



Ultra High Performance HMPE Rope

- Ultra high strength
- Lighter weight
- Ultra low stretch



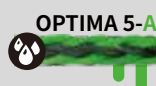
Coating Type



H type, Improve rope grip and stability



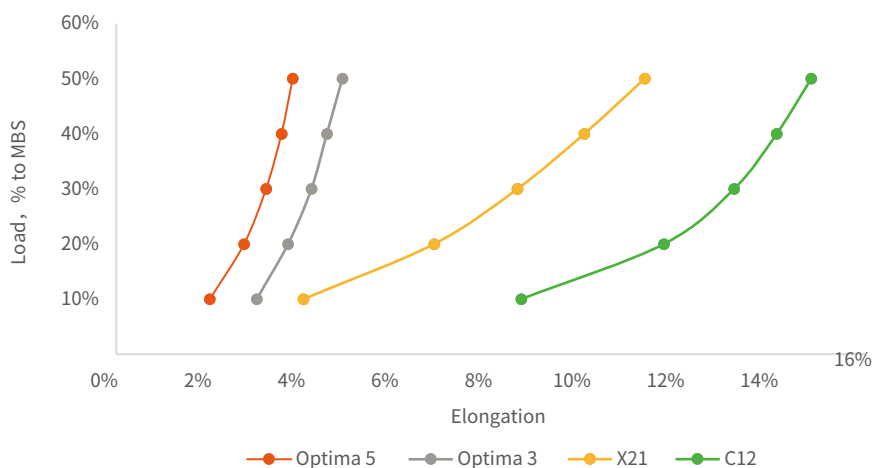
L type, Optimizes the rope's surface wear resistance, making it smoother



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



Elongation



ROPERS ROPE



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