

OPTIMA 3

General UHMWPE Synthetic Fiber Rope

Optima is made of Ultra-High Molecular Weight Polyethylene (UHMWPE) fiber and this highest strength synthetic fiber rope available made by ROPERS.

Optima 3 has many characteristics, such as high strength, light weight, wear resistance, impact resistance, low temperature resistance, ect. It is an ideal rope for marine and industrial markets.

Under the same strength, the weight of Optima 3 is only 1/8 of that of steel wire rope.



High strength and light weight



Non-absorbent, floating on water



Good wear resistance



Extremely low elongation improves operate efficiently



Perfect bending fatigue and relaxation fatigue



High efficiency



Technical Information



0.98
SPECIFIC GRAVITY



1×12
STRUCTURE



280°F (140°C)
MELTING POINT



130°F (65°C)
CRITICAL TEMP



4.8%
ELONGATION AT 50% BREAK



0
WATER ABSORPTION



Diameter	Weight	Minimum Strength Spliced Rope	Minimum Strength ISO Unspliced Rope
mm	kg/100m	kg	kg
24	34.0	49,900	55,400
26	40.0	59,100	65,700
28	47.0	66,000	73,300
30	53.0	75,000	83,300
32	62.0	89,000	98,900
36	75.0	101,000	112,200
40	95.0	131,000	145,600
44	116.0	144,000	160,000
48	129.0	161,100	179,000
52	158.0	195,000	216,700
56	172.0	218,000	242,200
60	215.0	245,000	272,200
64	230.0	271,100	301,200
68	256.0	300,000	333,000
72	319.0	356,000	395,600
76	350.0	388,000	431,100
80	388.0	428,600	476,200
88	516.0	568,000	631,100
96	630.0	690,000	766,700
100	685.0	728,900	809,900

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

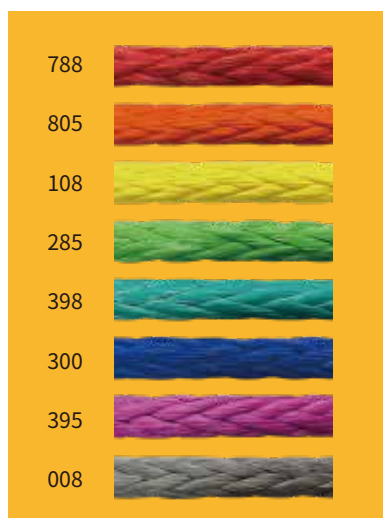
Premium UHMWPE Synthetic Fiber Rope

- Superior strength
- Twist resistant identification
- Various coating design

OPTIMA 7

Ultra High Performance HMPE Rope

- Ultra high strength
- Lighter weight
- Ultra low stretch



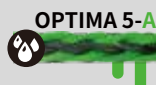
Coating Type



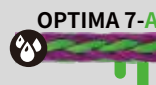
H type, Improve rope grip and stability



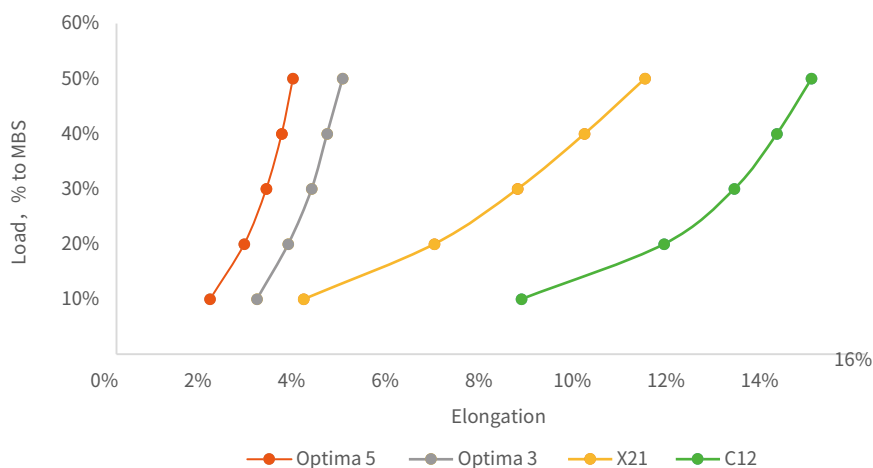
L type, Optimizes the rope's surface wear resistance, making it smoother



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



Elongation



ROPERS ROPE



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