

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 Breaking Strength ISO Unspliced Rope	
inch	mm	lbs/100ft	kg/100m	lbs	kg
1	24	22.8	34.0	121,900	55,400
1 1/16	26	26.8	40.0	144,500	65,700
1 1/8	28	31.5	47.0	161,300	73,300
1 1/4	30	35.5	53.0	183,300	83,300
1 5/16	32	41.6	62.0	217,600	98,900
1 1/2	36	50.3	75.0	246,800	112,200
1 5/8	40	63.7	95.0	315,300	143,300
1 3/4	44	77.8	116.0	352,000	160,000
2	48	86.5	129.0	393,800	179,000
2 1/8	52	105.9	158.0	476,700	216,700
2 1/4	56	115.3	172.0	532,800	242,200
2 1/2	60	144.2	215.0	598,800	272,200
2 5/8	64	154.2	230.0	662,600	301,200
2 3/4	68	166.3	248.0	736,100	334,600
3	72	186.4	278.0	758,600	344,800
3 1/8	76	207.2	309.0	837,500	380,700
3 1/4	80	230.0	343.0	926,200	421,000
3 5/8	88	279.6	417.0	1,120,000	509,100
4	96	333.3	497.0	1,330,600	604,800
4 1/8	100	361.6	539.3	1,415,000	643,200
4 1/4	104	391.1	583.3	1,499,700	681,700
4 1/2	108	421.8	629.0	1,585,300	720,600
4 5/8	112	453.6	676.5	1,670,700	759,400
5	120	520.7	776.6	1,879,500	854,300
5 1/8	124	565.0	842.6	1,998,500	908,400

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



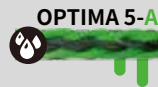
Coating Type



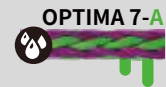
H type, Improve rope grip and stability



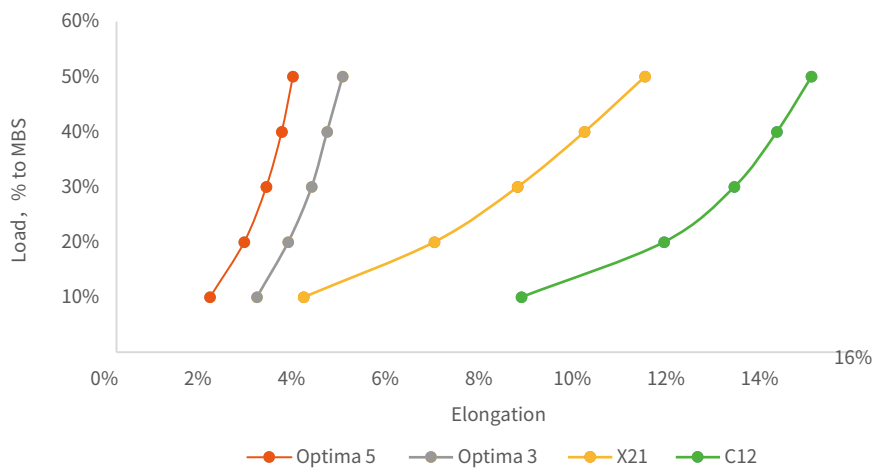
L type, Optimizes the rope's surface wear resistance, making it smoother



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



Elongation



ROPERS ROPE



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