

OPTIMA™

*Premium HMPE
Synthetic Fiber Rope*

5



The OPTIMA™ Series is our premium rope line created by ROPERS, crafted from high-quality Ultra-High Molecular Weight Polyethylene (HMPE).

OPTIMA™ 5 is made of premium Ultra-High-Molecular-Weight-Polyethylene (HMPE) fiber and is the highest-strength synthetic fiber rope available made by ROPERS.

Our OPTIMA™ 5 features a bright two-color anti-twist identification design which can effectively prevent rope distortion during operation, thereby avoiding loss of rope-strength.

The OPTIMA™ 5 ropes are suitable for all types of vessels, ranging from small boats, fishing vessels, yachts to barges, ferries, cruise ships, LNG carriers and even large container ships or bulk carriers. It is the premier choice for all vessels.



Can be certified by



ROPERS
RELIABLE TO THE CORE

Technical Information



SPECIFIC GRAVITY | 0.98

CONSTRUCTION | 12x12

MELTING POINT | 280°F (140°C)

CRITICAL TEMP | 150°F (65°C)

ELONGATION
AT 30% BREAK | 3.2%

WATER
ABSORPTION | 0%



Great wear-resistance



Floating



Extremely
high-strength



Easy to splice



Multi-color and
permanent twist
identification



Excellent flex-fatigue-
resistance



Easy to inspect

Diameter		Weight		Minimum Strength ISO Unspliced Rope	
mm	inch	kg/100m	lbs/100ft	kgf	lbs
12x12					
24	1	33.0	22.1	57,800	127,200
26	1 1/16	40.5	27.1	67,900	149,400
28	1 1/8	47.5	31.8	75,600	166,300
30	1 1/4	52.5	35.2	86,100	189,400
32	1 5/16	61.0	40.9	101,100	222,400
38	1 1/2	74.1	49.6	114,400	251,700
40	1 5/8	94.0	63.0	148,900	327,600
44	1 3/4	115.0	77.0	163,300	359,300
48	2	128.0	85.7	182,200	400,800
52	2 1/8	157.0	105.1	220,000	484,000
56	2 1/4	170.3	114.1	244,400	537,700
60	2 1/2	215.0	144.0	277,800	611,200
64	2 5/8	228.0	152.7	303,300	667,300
68	2 3/4	257.0	172.1	368,300	810,300
72	3	310.0	207.6	409,100	900,000
76	3 1/8	330.0	221.0	449,000	987,800
80	3 1/4	385.0	257.8	500,000	1,100,000
88	3 5/8	506.0	338.9	667,800	1,469,200
96	4	628.0	420.6	825,600	1,816,000
100	4 1/8	679.0	454.7	874,400	1,923,700

Diameter, weight and MBS are determined in accordance with ISO 2307: 2019. Specifications are for unspliced strengths, strength will decrease by about 10% after splicing. Custom size and length and color available by request.

Warning: The minimum breaking strength must never be regarded as the safe working load of the rope.

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