

OPTIMA™

*Premium HMPE
Synthetic Fiber Rope*

5

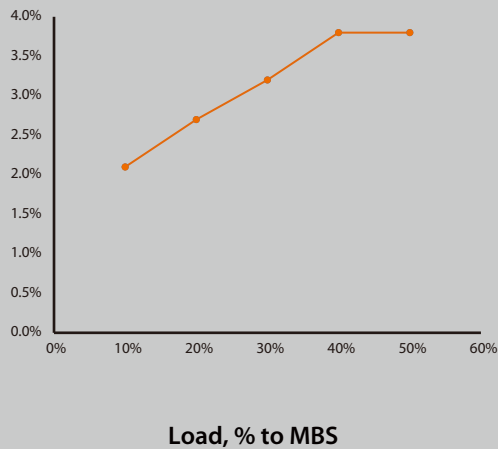
The OPTIMA™ Series is our premium rope line created by ROPERS, crafted from high-quality Ultra-High-Molecular-Weight Polyethylene (HMPE).

Our OPTIMA™ 5 winch rope offers exceptional strength, lightness and efficiency, widely adopted by the oil & gas, offshore, mining and energy sectors.

Following customer requests, we have designed it with a distinctive multi-color scheme to aid in identifying if the rope is twisted, thus preventing twists during operation and maintaining OPTIMA™ strength.



ELONGATION



TECHNICAL INFORMATION

MATERIAL | HMPE

SPECIFIC GRAVITY | 0.98

CONSTRUCTION | 12 Strand

MELTING POINT | 280°F (140°C)

CRITICAL TEMP | 150°F (65°C)

ELONGATION AT 30% BREAK | 3.2%

WATER ABSORPTION | 0%



High wear-resistance



Extremely high-strength



UV-resistance



Chemical resistance



Customizable in length & color

Diameter		Weight		Minimum Strength ISO Unspliced Rope	
mm	inch	kg/100m	lbs/100ft	kgf	lbs
12 Strand					
6	1/4	2.3	1.5	4,600	10,100
8	5/16	3.4	2.3	7,000	15,400
9	3/8	5.30	3.5	10,600	23,300
11	7/16	6.0	4.0	12,900	28,400
12	1/2	8.3	5.6	16,700	36,700
14	9/16	10.5	7.0	21,100	46,400
16	5/8	15.4	10.3	27,300	60,100
18	3/4	20.2	13.5	36,300	79,900
22	7/8	28.0	18.8	51,100	112,400
12 x 12					
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

Available in solid color for diameters from 6mm to 22mm. 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 diameter and length and color available by request.

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

