

OPTIMA 4S

UHMWPE Durable Double Braid Rope

Optima 4S is made of Ultra-High Molecular Weight Polyethylene (UHMWPE) fiber and is the highest strength synthetic fiber rope available made by ROPERS. Comprised of high strength UHMWPE as its core and an overbraided UHMWPE cover for wear resistance, it performs exceptionally well in mooring, towing, and other offshore applications.

The Optima 4S features a tightly braided structure, with both its cover and core working together to prevent excessive cover slack during mooring operations. Its cover is coated with a special abrasion-resistant material that enhances its wear resistance and effectively shields the load-bearing core from dust and sand particles that can cause fiber-to-fiber wear.



<p>Extremely high bending fatigue strength</p>	<p>Minimize sliding between core and cover in design</p>	<p>Smooth and tight</p>	<p>Good wear resistance</p>	<p>UV and chemical resistance</p>
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Technical Information

<p>UHMWPE CORE</p>	<p>UHMWPE COVER</p>
<p>0.98 SPECIFIC GRAVITY</p>	<p>Double Braided STRUCTURE</p>
<p>280°F (140°C) MELTING POINT</p>	<p>150°F (65°C) CRITICAL TEMP</p>
<p>3.77% ELONGATION AT 50% BREAK</p>	<p>0 WATER ABSORPTION</p>



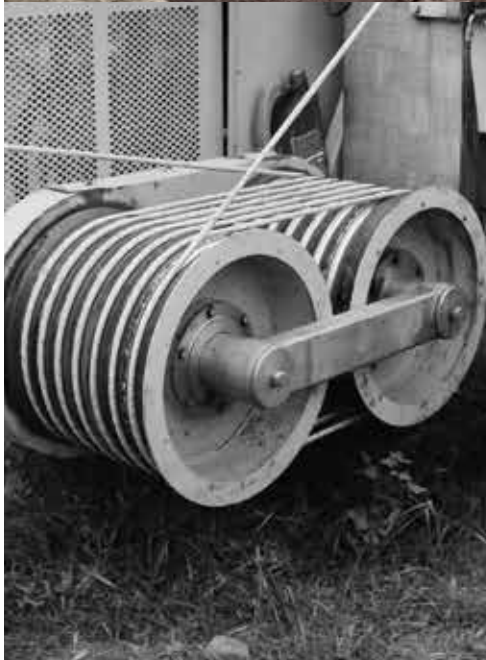
Diameter		Weight		Minimum Breaking Strength	
inch	mm	lbs/100ft	kg/100m	lbs	kg
3/8	10	4.4	6.5	19,800	9,000
7/16	11	4.9	7.3	24,200	11,000
1/2	12	6.5	9.6	27,500	12,500
9/16	14	7.4	11.0	30,800	14,000
5/8	16	10.1	15.0	40,500	18,400
3/4	18	13.8	20.5	53,200	24,200
13/16	20	20.6	30.6	73,700	33,500
7/8	22	26.5	39.4	96,800	44,000
1	24	27.7	41.3	101,400	46,100
1 1/8	28	32.7	48.6	119,700	54,400
1 1/4	30	39.5	58.8	144,800	65,800
1 5/16	32	43.3	64.5	158,600	72,100
1 3/8	34	47.7	71.0	174,700	79,400
1 1/2	36	55.1	82.0	201,500	91,600
1 5/8	40	61.9	92.2	226,600	103,000
1 3/4	44	66.6	99.1	248,600	113,000
2	48	96.9	144.1	334,400	152,000
2 1/8	52	112.6	167.6	363,000	165,000
2 1/4	56	121.1	180.2	409,200	186,000

Diameter, weight and MBS are determined in accordance with CI1500-02. Custom size and length available by request.

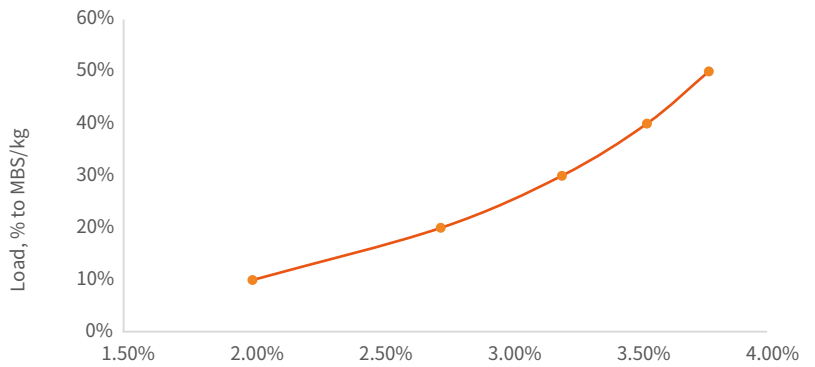




ROPERS
RELIABLE TO THE CORE



Optima 4S Elongation



OPTIMA 4S



- UHMWPE/UHMWPE
- Very high strength, firm and round torque free
- Superior wear resistance and durability
- Smooth, reducing frictional heat buildup
- More lighter, floating

OPTIMA 4C



- Polyester/UHMWPE
- Very high strength, firm and round torque free
- High wear resistance and durability
- Offers improved grip



ROPERS ROPE



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