

OPTIMA 4S

UHMWPE Durable Double Braid Rope

Optima 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>3.5%~3.8% ELONGATION AT 50% BREAK</p>	<p>0 WATER ABSORPTION</p>



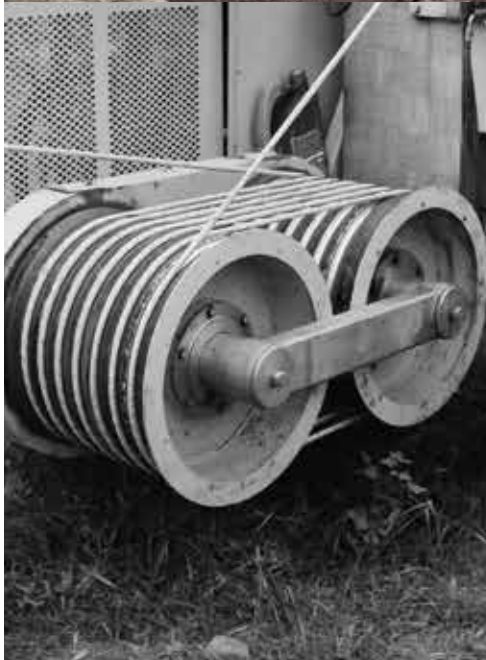
Diameter	Weight	Minimum Strength Spliced Rope	Minimum Strength ISO Unspliced Rope
inch	lbs/100ft	lbs	lbs
3/8	4.4	19,800	22,000
7/16	4.9	24,200	26,800
1/2	6.5	27,500	30,600
9/16	7.4	30,800	34,300
5/8	10.1	40,500	44,900
3/4	13.8	53,200	59,100
7/8	20.6	73,700	81,900
1	26.5	96,800	107,600
1 1/16	27.7	101,400	112,700
1 1/8	32.7	119,700	132,900
1 1/4	39.5	144,800	160,900
1 5/16	43.3	158,600	176,200
1 3/8	47.7	174,700	194,100
1 1/2	55.1	201,500	223,900
1 5/8	61.9	226,600	251,700
1 3/4	66.6	248,600	276,300
2	96.9	334,400	371,600
2 1/8	112.6	363,000	403,300

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

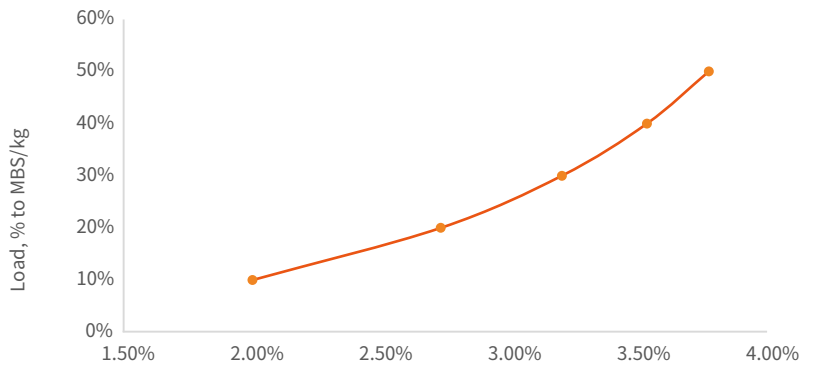




ROPERS
RELIABLE TO THE CORE



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



WEIGHT



STRENGT



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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