


# OPTIMA 4C

## Polyester/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. Optima 4C is a double braided rope made of high strength UHMWPE core and wear resistant polyester cover. Functionally, it is as high strength, light weight, high efficiency as other Optima series ropes, but also has a longer service life.









Optima 4C is an excellent and economical alternative to steel wire rope. Its overall structure is round and firm, with a polyester sheath enhanced by a special wear resistant coating that provides exceptional durability and improved grip, preventing slippage and effectively protecting the bearing core from damage. Additionally, the coordinated double braid structure design minimizes the sliding and improves the service life of the rope.



 <p>Extremely high bending fatigue strength</p>	 <p>High economic</p>	 <p>Excellent grip</p>	 <p>Good wear resistance</p>	 <p>UV and chemical resistance</p>
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### Technical Information

 <p><b>UHMWPE CORE</b></p>	 <p><b>Polyester COVER</b></p>
 <p><b>1.13 SPECIFIC GRAVITY</b></p>	 <p><b>Double Braided STRUCTURE</b></p>
 <p><b>280°F (140°C) MELTING POINT</b></p>	 <p><b>150°F (65°C) CRITICAL TEMP</b></p>
 <p><b>3.77% ELONGATION AT 50% BREAK</b></p>	 <p><b>0-1% WATER ABSORPTION</b></p>

Diameter		Weight		Minimum Breaking Strength	
inch	mm	lbs/100ft	kg/100m	lbs	kg
3/8	10	4.6	6.8	19,800	9,000
7/16	11	5.0	7.5	24,200	11,000
1/2	12	7.1	10.5	27,500	12,500
9/16	14	8.1	12.0	30,800	14,000
5/8	16	10.8	16.0	40,500	18,400
3/4	18	15.3	22.8	53,200	24,200
13/16	20	22.8	34.0	73,700	33,500
7/8	22	29.4	43.7	96,800	44,000
1	24	30.8	45.8	101,400	46,100
1 1/8	28	36.3	54.0	119,700	54,400
1 1/4	30	43.9	65.3	144,800	65,800
1 5/16	32	48.1	71.6	158,600	72,100
1 3/8	34	53.0	78.8	174,700	79,400
1 1/2	36	61.2	91.0	201,500	91,600
1 5/8	40	68.8	102.3	226,600	103,000
1 3/4	44	73.9	110.0	248,600	113,000
2	48	107.5	160.0	334,400	152,000

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

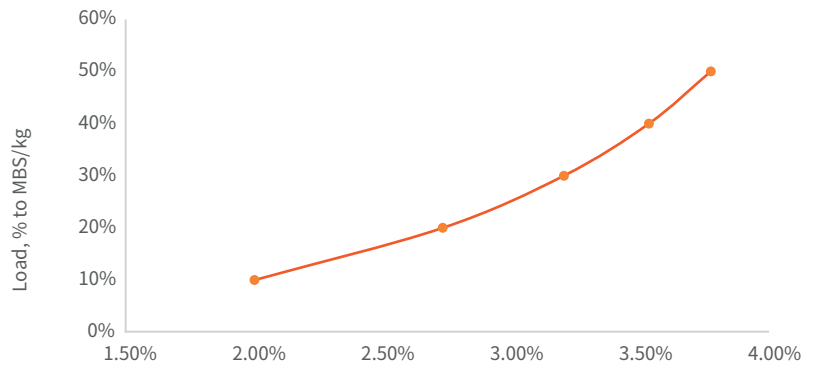




**ROPERS**  
RELIABLE TO THE CORE



### Optima 4C 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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