

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.



Extremely high bending fatigue strength



High economic



Excellent grip



Good wear resistance



UV and chemical resistance



Technical Information



UHMWPE
CORE



Polyester
COVER



1.13
SPECIFIC GRAVITY



Double Braided
STRUCTURE



280°F (140°C)
MELTING POINT



150°F (65°C)
CRITICAL TEMP



3.77%
ELONGATION
AT 50% BREAK



0-1%
WATER
ABSORPTION



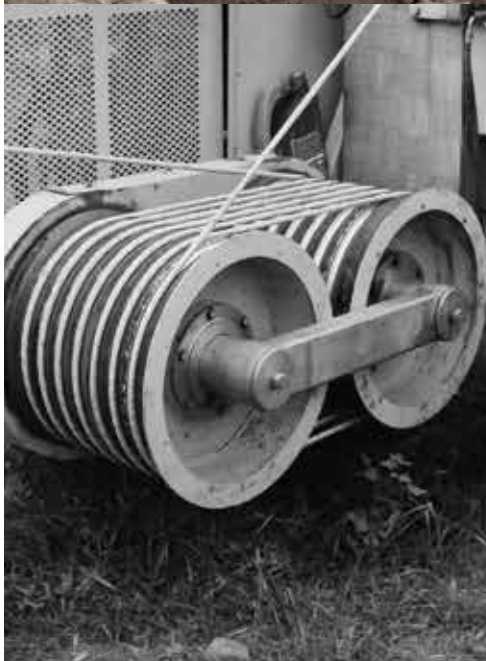
Diameter	Weight	Minimum Strength	
		Spliced Rope	ISO Unspliced Rope
mm	kg/100m	kg	kg
10	6.8	9,000	10,000
11	7.5	11,000	12,200
12	10.5	12,500	13,900
14	12.0	14,000	15,600
16	16.0	18,400	20,400
18	22.8	24,200	26,900
22	34.0	33,500	37,200
24	43.7	44,000	48,900
26	45.8	46,100	51,200
28	54.0	54,400	60,400
30	65.3	65,800	73,100
32	71.6	72,100	80,100
34	78.8	79,400	88,200
36	91.0	91,600	101,800
40	102.3	103,000	114,400
44	110.0	113,000	125,600
48	160.0	152,000	168,900
52	186.0	165,000	183,300

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

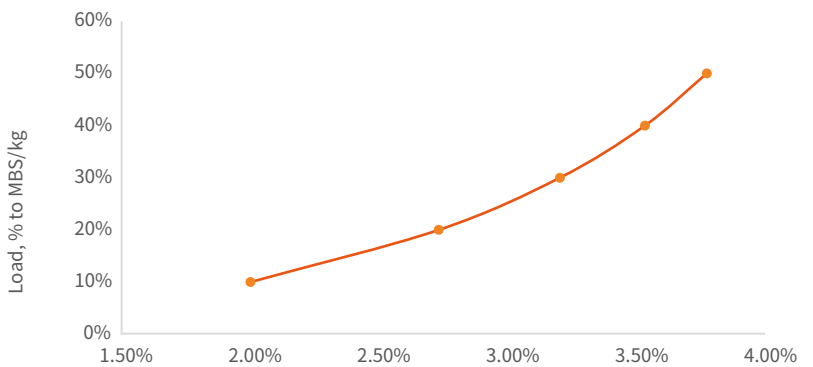




ROPERS
RELIABLE TO THE CORE



Optima 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



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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