

OPTIMA 4C

Polyester/UHMWPE Durable Double Braid Winch Line

Optima is made of Ultra-High-Molecular-Weight-Polyethylene (UHMWPE) fibers and is the highest strength synthetic fiber rope available made by ROPERS.

Our Optima 4C is a double braided rope made of a high-strength UHMWPE core and a wear resistant polyester cover. Functionally, it is as high-strength, light-weight and efficient as other Optima series ropes, but has an even longer service life.

Optima 4C is an excellent and cost-effective 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 rope sheath slippage, improving the service life of the rope.



Extremely high bending fatigue strength



Cost-effective



Excellent grip



Great wear resistance



UV and chemical resistance



Technical Information



UHMWPE
CORE



Polyester
COVER



1.03
SPECIFIC GRAVITY



Double Braided
CONSTRUCTION



280°F (140°C)
MELTING POINT



150°F (65°C)
CRITICAL TEMP



3.2%
ELONGATION
AT 30% BREAK



0-1%
WATER
ABSORPTION



Diameter	Weight	Minimum Breaking Strength	Minimum Strength ISO Unspliced Rope
inch	lbs/100ft	lbs	lbs
3/8	6.0	20,900	23,200
7/16	6.7	25,500	28,300
1/2	9.3	33,000	36,700
9/16	11.7	41,800	46,400
5/8	17.2	54,100	60,100
3/4	22.6	71,900	79,900
7/8	31.3	101,200	112,400
1	36.9	114,400	127,100
1 1/16	45.3	134,400	149,300
1 1/8	53.1	149,600	166,200
1 1/4	58.7	170,500	189,400
1 5/16	68.2	200,200	222,400
1 1/2	82.8	226,600	251,800
1 5/8	105.1	292,600	325,100
1 3/4	128.5	323,400	359,300
2	143.0	360,800	400,900
2 1/8	175.5	435,600	484,000

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



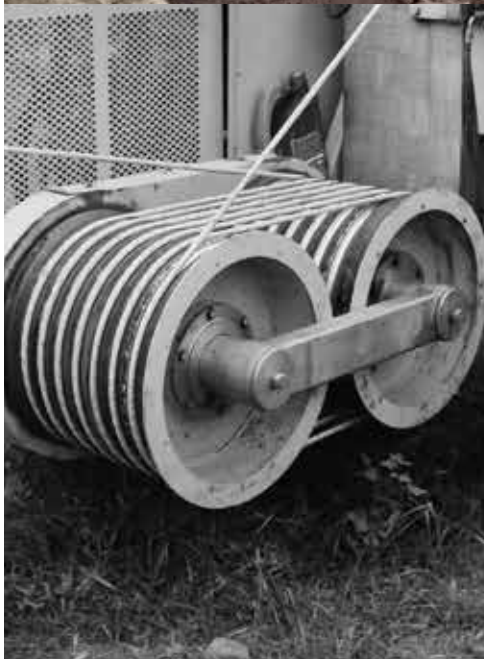
ROPERS ROPE



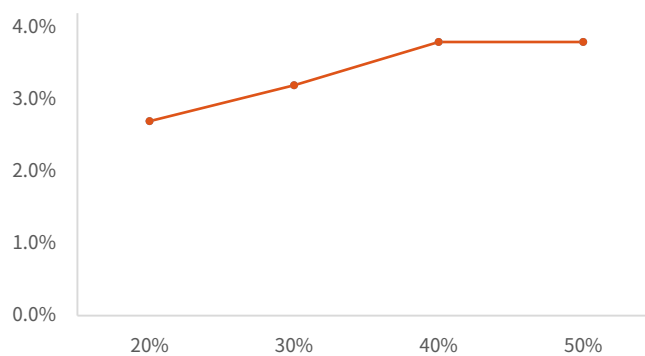
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Optima 4C Elongation



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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