

OPTIMA™

*Polyester & HMPE
Synthetic Fiber Rope*

4C

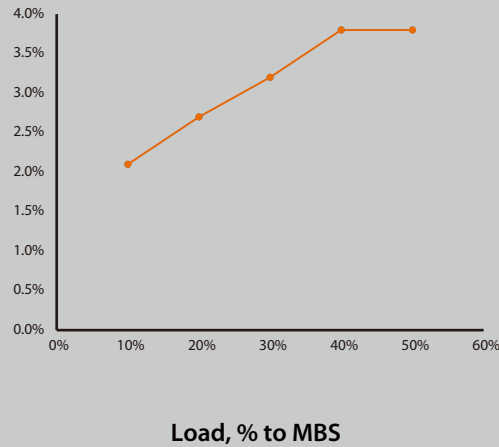
OPTIMA™ 4C is made of Ultra-High-Molecular-Weight Polyethylene (HMPE) fibers and is the highest-strength synthetic fiber rope available from ROPERS.

Our OPTIMA™ 4C is a double braid rope made of a high-strength HMPE core and a wear-resistant polyester cover. Functionally, it is as high-strength, lightweight 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 Construction is round and firm, with a polyester sheath enhanced by a special wear-resistant coating that provides exceptional durability and enhanced grip, preventing slippage and effectively protecting the bearing core from damage. Additionally, the coordinated double braid Construction design minimizes sheath slippage, improving the service life of the rope.



ELONGATION



TECHNICAL INFORMATION

CORE	HMPE
COVER	Polyester
SPECIFIC GRAVITY	1.03
CONSTRUCTION	Double Braided
MELTING POINT	482°F (250 °C) / 280°F (140 °C)
CRITICAL TEMP	350°F (177 °C) / 150°F (65 °C)
ELONGATION AT 30% BREAK	3.2%
WATER ABSORPTION	0-1%



Excellent wear characteristics



Floating



High strength



Excellent flex fatigue resistance



Excellent UV resistance

Diameter		Weight		Minimum Strength ISO Unspliced Rope	
mm	inch	kg/100m	lbs/100ft	kgf	lbs
10	3/8	8.9	6.0	10,600	23,300
11	7/16	10.0	6.7	12,900	28,400
12	1/2	13.8	9.3	16,700	36,700
14	9/16	17.5	11.7	21,100	46,400
16	5/8	25.7	17.2	27,300	60,100
18	3/4	33.7	22.6	36,300	79,900
22	7/8	46.7	31.3	51,100	112,400

Diameter, weight and MBS are determined in accordance with ISO 2307:2019.

Specifications are for unspliced strengths, strength will decrease by about 10% after splicing.

Note: The product diameter is specified by the inner core diameter.

Custom diameter and length and color available by request.

Warning: The minimum breaking strength must never be regarded as the safe working load of the rope.

