

OPTIMA™

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 mm	Weight kg /100m	Minimum Breaking Strength ton	Minimum Strength ISO Unspliced Rope
			ton
10	8.9	9.5	10.6
11	10.0	11.6	12.9
12	13.8	15.0	16.7
14	17.5	19.0	21.1
16	25.7	24.6	27.3
18	33.7	32.7	36.3
22	46.7	46.0	51.1
24	55.0	52.0	57.5
26	67.5	61.1	67.9
28	79.2	68.0	75.6
30	87.5	77.5	86.1
32	101.7	91.0	101.1
36	123.5	103.0	114.4
40	156.7	134.0	147.8
44	191.7	147.0	163.3
48	213.3	164.0	182.2
52	261.7	198.0	220.0

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



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