

OPTIMA 4C

Polyester/UHMWPE Durable Double Braid Winch Line

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



Cost-effective



Excellent grip



Great wear resistance



UV and chemical resistance



Technical Information



UHMWPE
CORE



Polyester
COVER



1.13
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
mm	kg /100m	ton	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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