

OPTIMA™ 5

Twist Identification 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.

Our OPTIMA™ 5 winch rope offers exceptional strength, lightness and efficiency, adopted by Oil & Gas, Offshore, Mining and Energy Sectors.

Following customer requests, we have designed it with a distinctive multi-color scheme to aid identifying if the rope is twisted, thus preventing twists during use and avoiding loss of strength.



Multi-color and permanent
twist identification



Extremely low elongation
improves use efficiency



Perfect bending fatigue
and relaxation fatigue



Extremely high strength



Superior wear resistance



Technical Information

0.98
SPECIFIC GRAVITY

1×12 / 12×12
CONSTRUCTION

280°F (140°C)
MELTING POINT

150°F (65°C)
CRITICAL TEMP

3.2%
ELONGATION
AT 30% BREAK

0
WATER
ABSORPTION

Diameter mm	Weight kg/100m	Minimum Strength	
		Spliced Rope ton	ISO Unspliced Rope ton
1×12			
6	2.3	4.1	4.6
8	3.4	6.3	7.0
9	5.30	9.5	10.6
11	6.0	11.6	12.9
12	8.3	15.0	16.7
14	10.5	19.0	21.1
16	15.4	24.6	27.3
18	20.2	32.7	36.3
22	28.0	46.0	51.1
12×12			
24	33.0	52.0	57.8
26	40.5	61.1	67.9
28	47.5	68.0	75.6
30	52.5	77.5	86.1
32	61.0	91.0	101.1
36	74.1	103.0	114.4
40	94.0	134.0	148.9
44	115.0	147.0	163.3
48	128.0	164.0	182.2

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



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