

OPTIMA

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.

Optima5 winch rope offers exceptional strength, lightness and efficiency, adopted in Oil & Gas, Offshore, Mining and Energy sectors.

In response to operating environments, it has been designed with a distinctive multi-color scheme to aid in identification and prevent twists during use, thus 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	Weight	Minimum Strength Spliced Rope	Minimum Strength ISO Unspliced Rope
inch	lbs/100ft	lbs	lbs
1×12			
1/4	1.5	9,000	10,100
5/16	2.3	13,900	15,400
3/8	3.6	20,900	23,300
7/16	4.0	25,500	28,400
1/2	5.6	33,000	36,700
9/16	7.0	44,000	48,800
5/8	10.3	54,100	60,100
3/4	13.5	71,900	79,900
7/8	18.8	107,800	119,700
12×12			
1	22.1	114,400	127,200
1 1/16	27.2	134,400	149,400
1 1/8	31.9	149,600	166,300
1 1/4	35.2	170,500	189,400
1 5/16	40.9	200,200	222,400
1 1/2	49.6	226,600	251,700
1 5/8	63.0	294,800	327,600
1 3/4	77.0	323,400	359,300
2	85.7	360,800	400,800

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



ROPERS ROPE



sales@ropers.com.tw



www.ropersrope.com