

# 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.



	<b>Multi-color and permanent twist identification</b>		<b>Extremely low elongation improves use efficiency</b>		<b>Perfect bending fatigue and relaxation fatigue</b>		<b>Extremely high strength</b>		<b>Superior wear resistance</b>
---	---	---	---	---	---	---	--------------------------------	---	---------------------------------



### 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 inch	Weight lbs/100ft	Minimum Strength Spliced Rope lbs	Minimum Strength ISO Unspliced Rope lbs
<b>1×12</b>			
1/4	1.5	9,000	10,100
5/16	2.3	13,900	15,400
3/8	3.5	20,900	23,300
7/16	4.0	25,500	28,400
1/2	5.6	33,000	36,700
9/16	7.0	41,800	46,400
5/8	10.3	54,100	60,100
3/4	13.5	71,900	79,900
7/8	18.8	101,200	112,400
<b>12×12</b>			
1	22.1	114,400	127,200
1 1/16	27.1	134,400	149,400
1 1/8	31.8	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](mailto:sales@ropers.com.tw)



[www.ropersrope.com](http://www.ropersrope.com)