

OPTIMA

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.

Optima3 has many characteristics, such as high strength, light weight, wear resistance, impact resistance, low temperature resistance and so on. It is an ideal rope for marine and industrial markets.

Under the same strength, the weight of Optima3 is only 1/8 of that of steel wire rope. Corrosion resistance and aging resistance, no lubrication is required during use. The operation cost is greatly reduced and easy to maintain. Better fatigue strength and long service life. It is safe and reliable.



High wear resistance



Extremely high strength



UV resistance



Chemical resistance



Customizable in length and color



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

Remarks: The structure is 1×12, the color is single color, unless customers have special requirements.

Diameter	Weight	Minimum Breaking Strength	Minimum Strength ISO Unspliced Rope
inch	lbs/100ft	lbs	lbs
1×12			
3/16	0.9	6,100	6,800
1/4	1.5	8,600	9,600
5/16	2.3	13,200	14,700
3/8	3.6	18,700	20,800
7/16	4.0	22,600	25,100
1/2	5.6	31,500	35,000
9/16	7.0	38,100	42,300
5/8	10.3	51,700	57,400
3/4	13.5	68,500	76,100
7/8	18.8	96,800	107,500
1	22.8	109,800	122,000
1 1/16	26.8	130,000	144,400
1 1/8	31.5	145,200	161,300
1 1/4	35.5	165,000	183,300
1 5/16	41.6	195,800	217,600
1 1/2	50.3	222,200	246,900
12×12			
1 5/8	63.7	288,200	320,200
1 3/4	77.8	316,800	352,000
2	86.5	354,400	393,800

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



ROPERS ROPE



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