

OPTIMA 4C

Polyester/HMPE Double Braid Rope

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



High economic



Excellent grip



Good wear resistance



Floating



Technical Information



UHMWPE
CORE



Polyester
COVER



1.03
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 Strength Spliced Rope	Minimum Strength ISO Unspliced Rope
inch	lbs/100ft	lbs	lbs
3/8	4.6	19,800	22,000
7/16	5.0	24,200	26,800
1/2	7.1	27,500	30,600
9/16	8.1	30,800	34,300
5/8	10.8	40,500	44,900
3/4	15.3	53,200	59,100
7/8	22.8	73,700	81,900
1	29.4	96,800	107,600
1 1/16	30.8	101,400	112,700
1 1/8	36.3	119,700	132,900
1 1/4	43.9	144,800	160,900
1 5/16	48.1	158,600	176,200
1 3/8	53.0	174,700	194,100
1 1/2	61.2	201,500	223,900
1 5/8	68.8	226,600	251,700
1 3/4	73.9	248,600	276,300
2	107.5	334,400	371,600
2 1/8	124.7	363,000	403,300

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