BOB™ Beats Bending Fatigue

Braid Optimized for Bending

(BOB) rope constructions offer excellent long term creep resistance and superior cyclic fatigue performance, especially in bend-over-sheave applications. The patented blend of high performance fibers, available in either 12 strand or 12 x 12 strand designs, features high strength, low stretch and ultra low creep to maximize durability in bending situations.

To find out more about BOB 12 Strand and BOB 12x12 or to get a quote contact sales@psrope.com.

Cortland®
PUGET SOUND ROPE

1012 Second Street
Anacortes, WA 98221-1956

Telephone 360.293.8488
Fax 360.293.8480

www.psrope.com
www.cortlandcompanies.com

ABS Quality Evaluations, Inc. Management System Certification
ISO 9001

BOB (Braid Optimized for Bending) FEATURES & SPECIFICATIONS

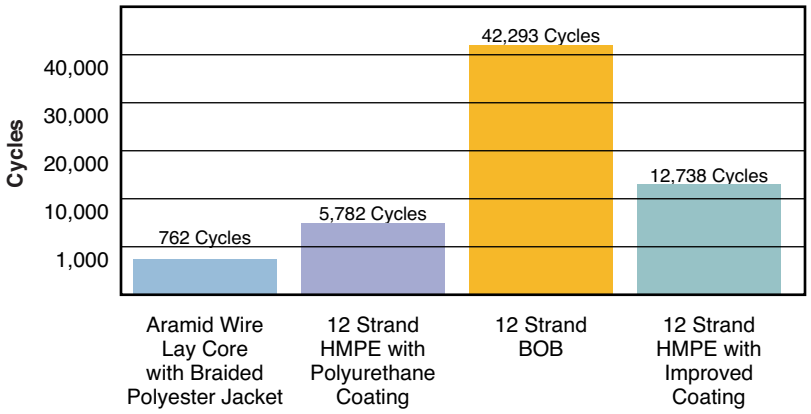
High Strength	Soft Hand
Low Stretch	Torque Free
Ultra Low Creep	Easy Splicing

Specific Gravity	1.18*
Melting Point	284 F (140 C)*
Critical Temperature	150 F (65 C)*
Coefficient of Friction	0.12-0.15*
Elongation at Break	4% - 5%
Fiber Water Absorption	<0.1%
UV Resistance	Moderate
Wet Abrasion	Superior
Dry Abrasion	Superior

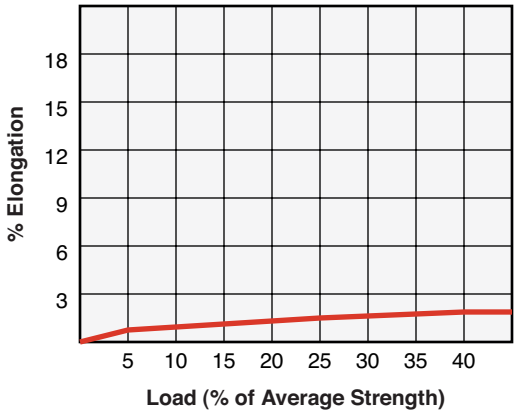
* value based on data supplied by the fiber manufacturer for new, dry fiber

BOB BEND OVER SHEAVE TEST DATA

Tests were performed on a 9" (229mm) diameter steel sheave with 3/4" (18mm) diameter ropes. Test load was 7,500 lbs (3,500kgs). All specimens were cycled at a rate of 6 cycles per minute. All tests were run continuously until complete rope failure.



BOB % ELONGATION

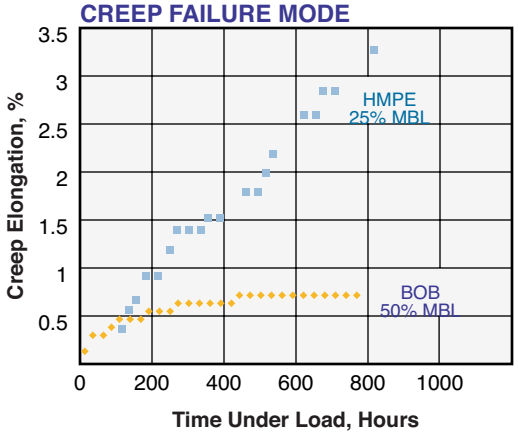


BOB TENSILE STRENGTH

	Nominal Diameter		Size Number (circ)	Approximate Weight		Minimum Tensile Strength	
	Inch	MM		Lbs/100ft	Kg/100m	Pounds	Kn
12 STRAND	5/8	16	2	13.5	20.1	51,400	228.6
	3/4	18	2-1/4	17.8	26.5	68,500	304.7
	7/8	22	2-3/4	26.1	38.8	92,600	411.9
	1	24	3	32.0	47.6	110,000	489.3
	1-1/8	28	3-1/2	43.2	64.3	147,000	653.9
12 X 12 STRAND	1-1/4	30	3-3/4	45.2	67.3	165,000	733.9
	1-5/16	32	4	55.2	82.1	196,000	871.8
	1-1/2	36	4-1/2	62.9	93.6	221,000	983.0
	1-5/8	40	5	85.1	126.6	291,000	1,294.4
	1-3/4	44	5-1/2	102.7	152.8	314,000	1,396.7
	2	48	6	124.9	185.9	355,000	1,579.0
	2-1/8	52	6-1/2	146.6	218.2	428,000	1,903.8
	2-1/4	56	7	168.4	250.6	481,000	2,139.5
	2-1/2	60	7-1/2	198.3	295.1	530,000	2,357.4
	2-5/8	64	8	215.5	320.7	596,000	2,651.0
	2-3/4	68	8-1/2	245.7	365.7	660,000	2,935.7
	3	72	9	293.2	436.3	780,000	3,469.4
	3-1/4	80	10	361.6	538.1	940,000	4,181.1

Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload ($200d^2$) plus 4%.

BOB ELIMINATES CREEP FAILURE MODE



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