

12 STRAND POLYSTEEL

12 Strand Polysteel ropes offer similar tenacity to polyester, but offer a significant weight reduction and non-water absorption properties. Torque balanced construction with firm round profile, 12-Strand Polysteel is easily spliced, and used for general working lines, secondary mooring lines, mooring pendants, and slings and strops.



APPLICATIONS

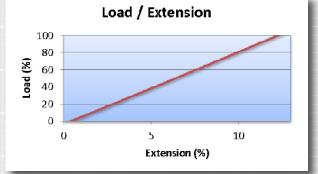
Mooring Pendants, Secondary Mooring Lines, General Working Lines, Slings, Strops

MATERIAL MANUFACTURED FROM POLYSTEEL:		Floats on water Hard wearing UV stabilised Low elongation Light weight			
CONSTRUCTION TWISTED FIBRE CONSTRUCT 12 STRAND BRAIDED CONS		Improved abrasion resistance Optimised pitch to yarn twist - improves strength and longevity Firmer rounder rope, aids handling Easy to splice Flexible product and easily handled Torque balanced			
PROPERTIES RELATIVE DENSITY: CHEMICAL RESISTANCE: UV RESISTANCE: MELTING POINT:	0.91 Exact figure varies with diameter Very good resistance to most chemicals (additional information available on request) Stable 150°C				
TERMINATIONS SPLICED EYE TERMINATION	 12 strand core splice An allowance of 50x rope diameter should be made for the overall length of the splice. To optimise the efficiency of a soft eye splice (without a thimble), the angle formed at the neck of the splice should be 30° or less, meaning that when flat, the length of the eye must be 2.7x the diameter of the object over which the splice will be used. A splice will normally increase the diameter of the rope between 1.5x and 1.75x 				

ELONGATION

Typical working elongation (for a bedded in a rope):

@ 10% of break load: 1.70% @ 20% of break load: 2.80% To break: 12.6%



PERFORMANCE

DIAMETER	CIRCUMFERENCE	MASS		MIN STRENGTH				
mm	Inch	g/m	lb/100 ft	kg	lb	kN		
8	5/16	29	1.94	1230	2706	12.1		
10	13/32	45	3.04	1920	4224	18.8		
12	15/32	65.2	4.37	2740	6028	26.9		
14	9/16	88.8	5.96	3710	8162	36.4		
16	5/8	116	7.78	4813	10589	47.2		
18	3/4	147	9.86	6047	13303	59.3		
20	13/16	181	12.14	7423	16331	72.8		
22	7/8	219	14.69	8912	19606	87.4		
24	15/16	261	17.50	10605	23331	104.0		
28	1 1/8	355	23.81	14174	31183	139.0		
32	1 1/4	464	31.12	18253	40157	179.1		
36	1 27/64	587	39.37	22842	50252	224.1		
40	1 37/64	725	48.62	27940	61468	274.1		
44	1 3/4	877	58.81	33345	73359	327.1		
48	1 7/8	1040	69.75	39259	86370	385.1		
52	2 3/64	1220	81.82	45683	100503	448.2		
56	2 13/64	1420	95.23	52413	115309	514.2		
60	2 3/8	1630	109.31	59449	130788	583.2		
64	2 1/2	1860	124.74	66995	147389	657.2		
68	2 11/16	2100	140.83	75153	165337	737.3		
72	2 7/8	2350	157.60	83617	183957	820.3		
76	3	2618	175.57	93200	205040	914.3		
80	3 5/32	2900	194.48	101462	223216	995.3		
88	3 1/2	3510	235.39	121346	266961	1190.4		
96	3 3/4	4170	279.65	142760	314072	1400.5		
104	4 1/16	4900	328.61	165194	363427	1620.6		
112	4 3/8	5680	380.92	191707	421755	1880.6		
120	4 3/4	6520	437.25	217200	477840	2130.7		

Disclaimer

Marlow Ropes Ltd Ropemaker Park Hailsham East Sussex, BN27 3GU England

Marlow Ropes, Inc. Cordage Business Park Plymouth MA 02360 USA

Marlow Ropes Ltd endeavours to ensure that all products are manufactured to the highest standard, these guidelines are not intended and do not create any warranties, express or implied. Marlow Ropes Ltd expressly disclaims warranties or representations of any kind, express or implied, including the implied warranties of merchantability

www.marlowropes.com UK: +44 (0) 1323 444 444 sales@marlowropes.com US: +1 508 830 444 salesusa@marlowropes.com



and fitness for a particular purpose. Marlow Ropes Ltd shall not be liable for any consequential, incidental or contingent damages whatsoever stemming from the use of these guidelines. Marlow Ropes Ltd has a policy of continual improvement which may result in specification and colour changes without prior notice. Certification Number 315 ISO 9001