

Marlow[®] DATASHEET

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.



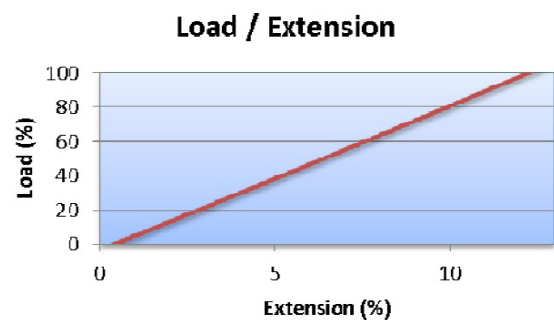
Key Specifications:

Material:	Polyester
Construction:	12 strand braided construction
Relative Density:	0.91 Exact figure varies with diameter
Chemical Resistance:	Very Good resistance to most chemicals
UV Resistance:	Stable
Melting Point:	150°C
Spliced Eye Termination:	12 strand core splice

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

NOMINAL DIAMETER		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