

# Marlow<sup>®</sup> DATASHEET

## 12 STRAND NYLON



Traditional 12-Strand Nylon ropes are used in numerous applications. Nylon has high elongation and a higher tenacity than polyester. Torque balanced construction with firm round profile, 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 NYLON:

High elongation (gives good energy absorption)  
Low creep

### CONSTRUCTION

#### TWISTED FIBRE CONSTRUCTION:

#### 12 STRAND BRAIDED CONSTRUCTION:

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:

1.14 Exact figure varies with diameter  
Good resistance to most chemicals, except acids (additional information available on request)  
UV stabilised  
220°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

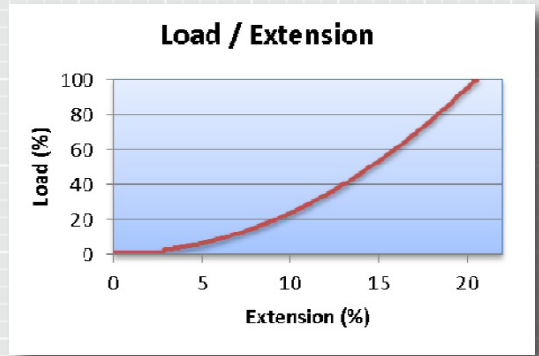
## ELONGATION

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

@ 10% of break load: 6.30%

@ 20% of break load: 9.20%

To break: 20.5%



## PERFORMANCE

DIAMETER		CIRCUMFERENCE		MASS		MIN STRENGTH		
mm	Inch	g/m	lb/100 ft	kg	lb	kN		
8	5/16	40	2.68	1430	3146	14.0		
10	13/32	63	4.19	2230	4906	21.9		
12	15/32	90	6.04	3212	7066	31.5		
14	9/16	123	8.25	4370	9614	42.9		
16	5/8	160	10.73	5710	12562	56.0		
18	3/4	203	13.61	7230	15906	70.9		
20	13/16	250	16.77	8667	19067	85.0		
22	7/8	303	20.32	10500	23100	103.0		
24	15/16	360	24.14	12032	26470	118.0		
28	1 1/8	490	32.86	16315	35893	160.1		
32	1 1/4	640	42.92	21617	47557	212.1		
36	1 27/64	810	54.32	27000	59400	264.9		
40	1 37/64	1000	67.06	32121	70666	315.1		
44	1 3/4	1210	81.15	38239	84126	375.1		
48	1 7/8	1440	96.57	45887	100951	450.2		
52	2 3/64	1700	114.01	54044	118897	530.2		
56	2 13/64	1970	132.11	61183	134603	600.2		
60	2 3/8	2260	151.56	68321	150306	670.2		
64	2 1/2	2570	172.35	76479	168254	750.3		
68	2 11/16	2901	194.55	86400	190080	847.6		
72	2 7/8	3250	217.95	96873	213121	950.3		
76	3	3621	242.83	118000	259600	1157.6		
80	3 5/32	4010	268.92	120326	264717	1180.4		
88	3 1/2	4860	325.92	142760	314072	1400.5		
96	3 3/4	5780	387.62	173352	381374.4	1700.6		
104	4 1/16	6780	454.69	193746	426241.2	1900.6		
112	4 3/8	7870	527.78	228416	502515.2	2240.8		
120	4 3/4	9030	605.58	254929	560843.8	2500.9		

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