

Marlow[®] DATASHEET

BRAIDLINE NYLON

Braidline Nylon offers excellent resistance to damage compared to traditional single braid constructions and offers significantly higher elongation than the Braidline Polyester. The 12 strand core and 24 plait cover work together in unison to improve strength and offer extended fatigue life. Ideal for applications where high shock loads are present.



APPLICATIONS

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

MATERIAL

MANUFACTURED FROM NYLON:

High elongation (gives good energy absorption)
Low creep

CONSTRUCTION

TWISTED FIBRE CONSTRUCTION:

Improved abrasion resistance

DOUBLE BRAIDED CONSTRUCTION:

Optimised pitch to yarn twist - improves strength & longevity
Firmer rounder rope, aids handling
Spliceable
Flexible product and easily handled
Torque balanced

PROPERTIES

RELATIVE DENSITY:

1.14

CHEMICAL RESISTANCE:

Good resistance to most chemicals, except acids
(additional information available on request)

UV RESISTANCE:

UV stabilised

MELTING POINT:

220°C

TERMINATIONS

SPLICED EYE TERMINATION:

Doublebraid 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.

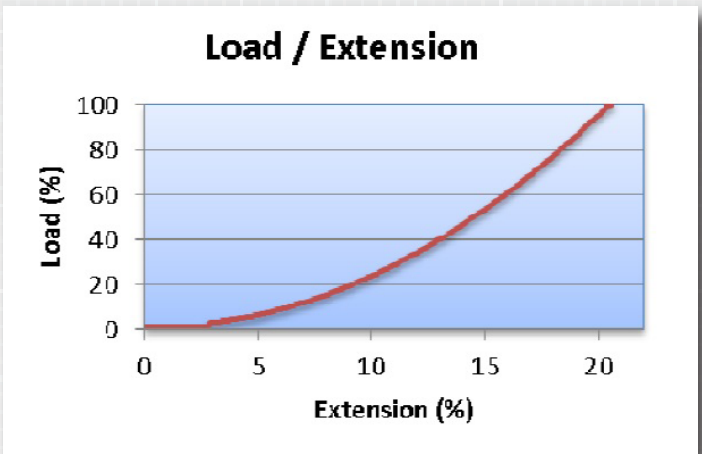
ELONGATION

Typical working elongation (for a bedded in 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		
16	2	160	10.73	6450	14190	63.3		
18	2 1/4	210	14.08	8640	19008	84.8		
20	2 1/2	290	19.45	11500	25300	112.8		
24	3	360	24.14	14300	31460	140.3		
28	3 1/2	490	32.86	19400	42680	190.3		
32	4	640	42.92	25300	55660	248.2		
36	4 1/2	800	53.65	31900	70180	312.9		
40	5	990	66.39	39000	85800	382.6		
44	5 1/2	1200	80.48	47200	103840	463.0		
48	6	1430	95.90	56000	123200	549.4		
52	6 1/2	1680	112.67	65500	144100	642.6		
56	7	1950	130.77	75700	166540	742.6		
60	7 1/2	2230	149.55	86400	190080	847.6		
64	8	2540	170.34	98000	215600	961.4		
72	9	3210	215.27	124000	272800	1216.4		
80	10	3970	266.24	152000	334400	1491.1		

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