

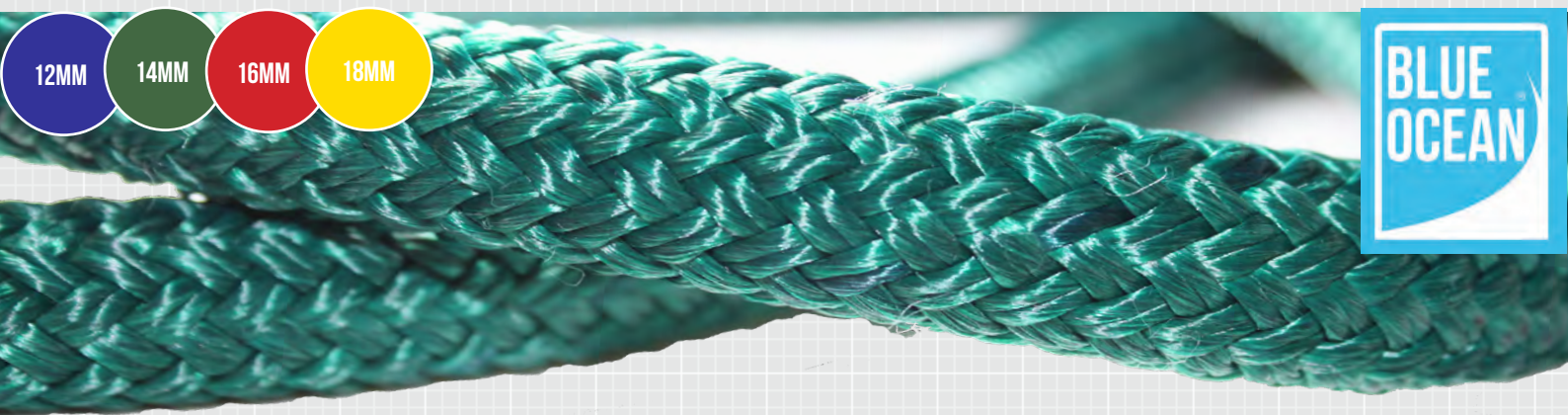
Marlow[®] DATASHEET[®]

BLUE OCEAN[®] RAPTOR LOWERING LINE

MANUFACTURED FROM 100% BLUE OCEAN[®] YARN*

A FIRST IN THE ARBORICULTURAL INDUSTRY!

New to our Blue Ocean[®] range, this is a lowering line is like no other! All the great benefits and attributes as our previous Raptor, but with an eco-conscious message.



APPLICATIONS

Arboriculture bull ropes, Arboriculture lowering line

MATERIAL

MADE FROM 100% BLUE OCEAN[®] rPET YARN :

Unaffected by water
Low creep
Zero shrinkage
Colour coded (12mm blue, 14mm green, 16mm red, 18mm yellow)
Good UV resistance
Very good abrasion resistance (ArmourCoat improves abrasion resistance by 30%)
Good heat resistance

CONSTRUCTION

TWISTED FIBRE CONSTRUCTION:

DOUBLE BRAIDED CONSTRUCTION:

Improved abrasion resistance
Optimised pitch to yarn twist - improves strength and longevity
Firmer rounder rope, aids handling
Easy to splice with either hard or soft eyes
Flexible product and easily handled
Torque balanced

PROPERTIES

RELATIVE DENSITY:

1.38

CHEMICAL RESISTANCE:

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

UV RESISTANCE:

UV stabilised

MELTING POINT:

260°C

TERMINATIONS

SPliced EYE TERMINATION:

Doublebraid splice.

An allowance of 25x 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.

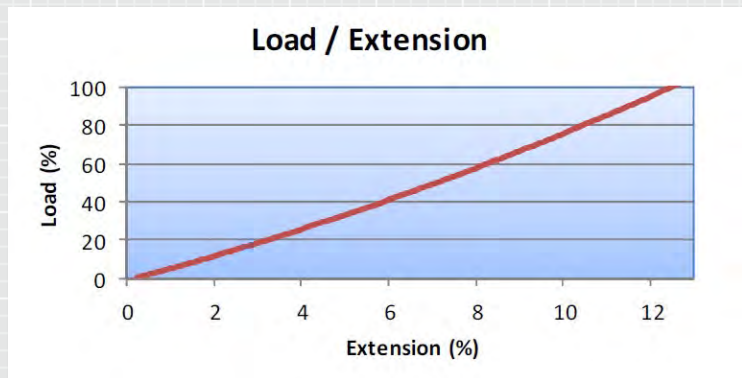
ELONGATION

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

@ 10% of break load: 1.70%

@ 20% of break load: 3.20%

To break: 12.40%



PERFORMANCE

DIAMETER	CIRCUMFERENCE	MASS		AVERAGE STRENGTH			MIN STRENGTH		
		mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg
12	1/2	99.4	6.67	3610	7940	35.4	3250	7150	31.9
14	9/16	124	8.33	4510	9920	44.3	4060	8930	39.8
16	5/8	162	10.8	5860	12900	57.5	5280	11600	51.8
18	3/4	211	14.2	7670	16900	75.2	6900	15200	67.7

SPLICED ROPE PERFORMANCE

DIAMETER	CIRCUMFERENCE	AVERAGE STRENGTH			MIN STRENGTH		
		mm	Inch	kg	lb	kN	kg
12	1/2	3250	7150	31.9	2920	6430	28.7
14	9/16	4060	8930	39.8	3650	8040	35.8
16	5/8	5280	11600	51.8	4750	10400	46.6
18	3/4	6900	15200	67.7	6210	13700	60.9

WORKING LOAD LIMITS FOR SPLICED ROPES AT 7:1 UTILISATION FACTOR AS IN EN 1492-4:

DIAMETER	CIRCUMFERENCE	WORKING LOAD LIMITS		
		mm	Inch	kg
12	1/2	418	919	4.1
14	9/16	522	1150	5.1
16	5/8	679	1490	6.7
18	3/4	887	1950	8.7

*** Blue Ocean® yarn is a GRS certified, high tenacity yarn, manufactured using 100% recycled plastic bottles. For more information on our rPET products visit marlowropes.com**

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

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

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



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Certification Number 315
ISO 9001