

Marlow[®] DATASHEET

Arbor 12

Arbor 12 is a highly versatile rigging and lowering line from Marlow. Using supple and easily spliced 12 strand rope with ArmourCoat for reduced water uptake. The ArmourCoat also improves abrasion resistance by 30%. Available in five colour-coded diameters.

APPLICATIONS: All rigging applications

MATERIAL: Polyester

CHARACTERISTICS:

Unaffected by water

Low creep

Zero shrinkage

Good UV resistance

Very good abrasion resistance (ArmourCoat improves abrasion resistance by 30%)

Good heat resistance

CONSTRUCTION:

TWISTED FIBRE CONSTRUCTION:

Improved abrasion resistance

12 STRAND BRAIDED CONSTRUCTION:

Optimised pitch to yarn twist – improves strength & longevity

Firmer rounder rope, aids handling

Easy to splice with either hard or soft eyes

Flexible product and easily handled

Torque balanced

PHYSICAL PROPERTIES:

CHEMICAL RESISTANCE:

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

RELATIVE DENSITY:

1.38

UV RESISTANCE:

UV stabilised

MELTING POINT:

260°C

LENGTHS:

200 metre reels

**GREAT PRODUCT
FOR ON-SITE
SPLICING.**



TERMINATION:

12 strand splice

An allowance of 50 × rope diameter should be made for the overall length of the splice

To optimise the efficiency of the 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 2.7 × the diameter of the object over which the splice will be used. A splice will normally increase the diameter of the rope between 1.5 × and 1.75.

ELONGATION

Typical working elongation (for a bedded in rope):

@ 10% of break load: 2%

@ 20% of break load: 3%

To break: 12%

PERFORMANCE

ROPE PROPERTIES:

DIAMETER		MASS		AVERAGE STRENGTH			MIN STRENGTH		
mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg	lb	kN
9	3/8	61.3	4.11	3430	7570	33.7	3090	6810	30.3
11	7/16	92.0	6.17	5060	11200	49.6	4550	10000	44.7
13	1/2	122.7	8.23	6620	14600	65.0	5960	13100	58.5
16	5/8	184.0	12.34	9750	21500	95.7	8780	19300	86.1
18	11/16	245.0	16.45	13200	29100	130.0	11900	26200	117.0

SPLICED ROPE PROPERTIES:

DIAMETER		AVERAGE STRENGTH			MIN STRENGTH			COLOURS
mm	Inch	kg	lb	kN	kg	lb	kN	
9	3/8	3090	6810	30.3	2780	6130	27.3	ORANGE
11	7/16	4550	10100	44.6	4100	9000	40.2	BLUE
13	1/2	5960	13100	58.5	5360	11800	52.7	GREEN
16	5/8	8780	19400	86.1	7900	17400	77.5	RED
18	1/2	11900	26200	117	10700	23600	105.0	YELLOW

WORKING LOAD LIMITS FOR SPLICED ROPES AT 7:1 UTILISATION FACTOR AS PER EN 1492-4:2004

DIAMETER		WLL		
mm	Inch	kg	lb	kN
9	3/8	397	876	3.9
11	7/16	585	1290	5.8
13	1/2	766	1680	7.5
16	5/8	1130	2480	11.1
18	1/2	1700	3740	16.7

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