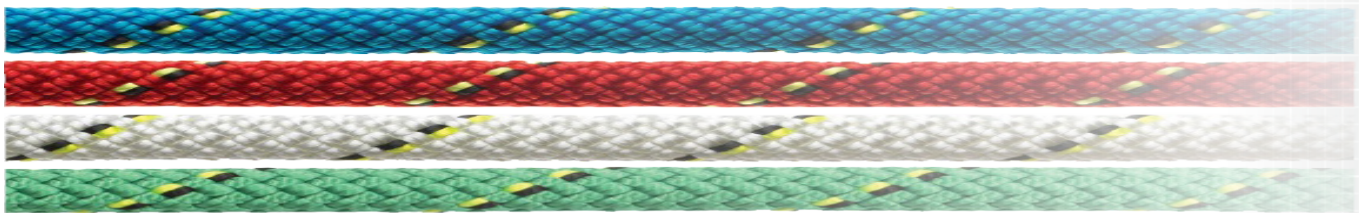


Marlow®

DATASHEET

D2 COMPETITION

D2 Competition has been developed specifically for the enthusiastic sailors and club racers wishing to take advantage of the high strength, low stretch benefits of Dyneema. D2 Competition is designed to bridge the gap between traditional polyester ropes such as Marlowbraid and high performance rope such as D2 Racing 78.



APPLICATIONS Winch Lines, Mooring Lines (primary, temporary and transfer), LNG Mooring, Riser Tethers, Seismic arrays, Escort and ocean towing lines, Yacht Halyards, Yacht Sheets, Yacht Control Lines

MATERIAL

CORE: Manufactured from Dyneema SK78
HMPE (High-Modulus Polyethylene)
Very light weight - 8x lighter than steel wire for a given strength
High strength - 70% stronger than steel wire for a given diameter
Low Stretch - see graph below
Good resistance to chemicals and UV
Zero water shrinkage
Very low creep HMPE fibre
Exhibits approximately 20% of the creep experienced by SK75. Further information available.

COVER: Manufactured from Polyester
Good abrasion resistance, excellent UV resistance

CONSTRUCTION

**12 STRAND BRAIDED
CORE CONSTRUCTION:** Optimised pitch to yarn twist - improves strength & longevity
Easy to splice
Flexible product and easily handled
Torque balanced

**16 PLAIT BRAIDED
COVER CONSTRUCTION:** Protects load bearing core from dirt and abrasion
Round and firm construction

PROPERTIES

RELATIVE DENSITY: Depends upon size. Typical value: 1.25

CHEMICAL RESISTANCE: Excellent resistance to most chemicals (additional information available on request). Polyester cover susceptible to damage from very strong alkalis.

UV RESISTANCE: Very good

MELTING POINT: 140°C

CRITICAL TEMPERATURE (CORE): 80°C (exposure to temperatures over this will result in permanent strength loss)

TERMINATIONS

SPLICED EYE TERMINATION:

12 strand splice (core)

An allowance of 40x 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.

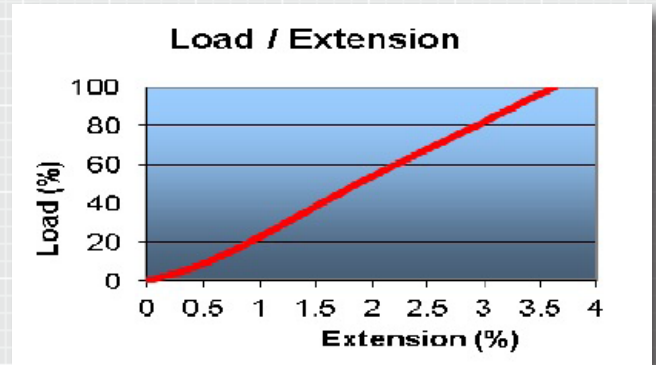
ELONGATION

Typical working elongation (for a bedded in rope):

@ 10% of break load: 0.51%

@ 20% of break load: 0.89%

To break: 3.60%



PERFORMANCE

DIAMETER		CIRCUMFERENCE		MASS		AVERAGE STRENGTH			MIN STRENGTH		
mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg	lb	kN		
8	5/16	48.3	3.24	2056	4523	20.2	1520	3344	14.9		
10	13/32	76.3	5.12	3487	7671	34.2	2680	5896	26.3		
12	15/32	97.1	6.51	5360	11792	52.6	4931	10848	48.4		

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