

Marlow[®] DATASHEET[®]

EXCEL FUSION

Super light sheet is soft, flexible and does not absorb water. The lightweight polypropylene and Dyneema[®] cover ensures the rope lasts through cleats and ratchet blocks. The pre-stretched Dyneema[®] core ensures minimal stretch and fantastic control.



APPLICATIONS

Sheets

MATERIAL

MANUFACTURED FROM DYNEEMA SK78:

HMPE (High-Modulus Polyethylene)
Very light weight - more than 8x lighter than steel wire for a given strength
High strength - 80% stronger than steel wire for a given weight
Low stretch - see table below
Good resistance to chemicals and UV
Zero water shrinkage
Low creep cover

MANUFACTURED FROM DYNEEMA POLYPROPYLENE BLEND:

Good abrasion
Very light weight
Very low water absorption

CONSTRUCTION

TWISTED FIBRE CONSTRUCTION: 12 STRAND CORE CONSTRUCTION:

Improved abrasion resistance core
Optimised pitch to yarn twist - improves strength & longevity
Firmer rounder rope, aids handling
Easy to splice
Flexible product and easily handled
Torque balanced cover

16 PLAIT BRAIDED COVER CONSTRUCTION:

Protects load bearing core from dirt and abrasion
Round and firm construction

PROPERTIES

RELATIVE DENSITY:	0.95 (Floats) Exact figure varies with diameter
CHEMICAL RESISTANCE:	Excellent resistance to most chemicals (additional information available on request)
UV RESISTANCE:	Good
MELTING POINT:	140°C

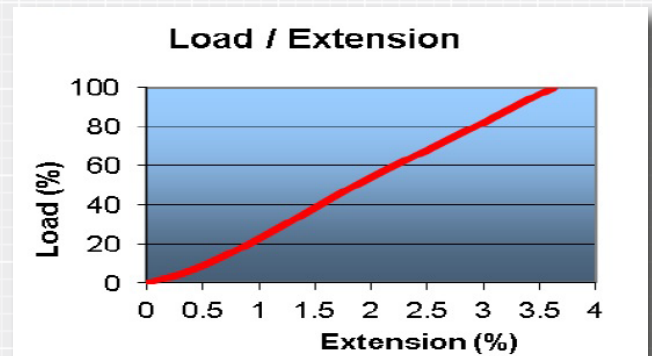
TERMINATIONS

SPliced EYE TERMINATION: Core can be spliced by D12 method

ELONGATION

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

- @ 10% of break load: 0.5%
- @ 20% of break load: 0.9%
- To break: 3.6%



PERFORMANCE

DIAMETER		CIRCUMFERENCE		MASS		AVERAGE STRENGTH			MIN STRENGTH		
mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg	lb	kN		
6	7/32	17	1.14	1090	2394	10.7	1001	2202	9.8		
7	1/4	22	1.48	1330	2933	13.1	1226	2698	12.0		
8	5/16	30	2.01	1410	3104	13.8	1298	2856	12.7		
10	3/8	44	2.95	2470	5438	24.3	2274	5003	22.3		

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