

Marlow®

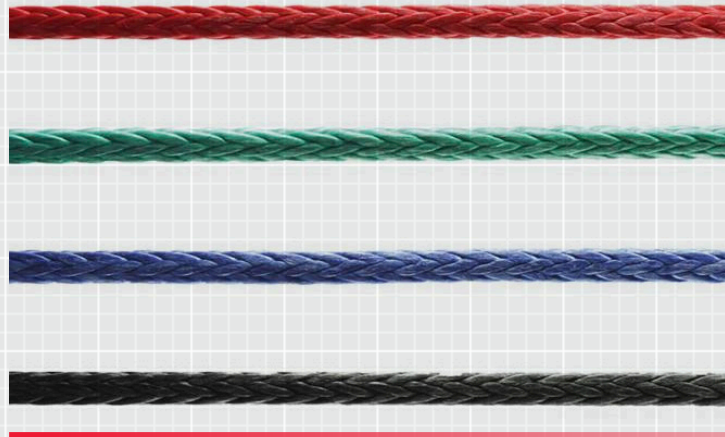
DATASHEET

D12 MAX 99

Marlow D12 Max 99 is a premium lightweight, very high strength, low elongation versatile rope manufactured using Dyneema® SK99, delivering industry leading strength, stiffness, durability and longevity.

D12 Max 99 has approximately 15% - 18% higher strength than D12 Max 75 and 78 and demonstrates better creep performance than D12 Max 75, but is still bettered in this respect by products manufactured using SK78 or DM20.

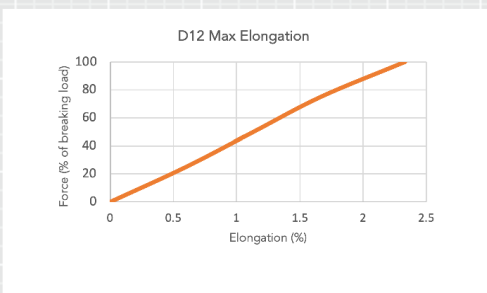
Manufactured using a 12x1 12-strand construction and colour coated with Marlow's proprietary ArmourCoat, D12 Max undergoes our "Max" special heating and pre-stretching process which takes the Dyneema material to it's limits, but delivers class leading strength and low stretch.



Diameter		Mass		Average Strength (spliced)			Min strength spliced		
mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg	lb	kN
2	5/64	3.6	0.24	990	2180	9.7	890	1960	8.7
2.5	3/32	4.5	0.3	1200	2630	11.7	1100	2420	10.8
3	1/8	6.8	0.46	1790	3950	17.6	1650	3630	16.2
3.5	9/ 64	9	0.6	2370	5230	23.3	2140	4700	21
4	5/32	11.1	0.74	2950	6480	28.9	2710	5970	26.6
5	3/16	15.6	1.05	3810	8380	37.4	3500	7710	34.4
5.5	7/32	20.1	1.35	4900	10800	48	4400	9720	43.2
6	7/32	22.3	1.5	5440.00	12000	53.4	5010	11000	49.1
7	1/4	35.6	2.39	8940	19700	87.7	8220	18100	80.7
8	5/16	44.5	2.98	11200	24600	110	10300	22600	101
9	3/8	54	3.62	12500	27500	123	11500	25300	113
10	13/32	63	4.22	14600	32100	143	13400	29600	132
11	7/16	75.5	5.06	17500	38600	172	16100	35500	158
12	15/32	90	6.04	20900	45900	205	19200	42200	188
13	1/2	107	7.18	24500	54000	241	22600	49600	221
14	9/16	120	8.05	28200	62200	277	25400	56000	249
15	9/16	134	8.99	30700	67500	301	28200	62100	277
16	5/8	158	10.6	35200	77600	345	31700	69800	311
17	11/16	184	12.34	38100	83800	374	35100	77100	344

Ropes designed in accordance with ISO 10325:2018

Linear MBL refers to unspliced ropes determined in accordance with ISO2307:2019



Dyneema®	Load	Temperature	Creep Rate	Creep Lifetime
SK99	20%	16 Deg. C	1.1% / yr	10 Years

Key Specifications:

Material:	Dyneema SK99
Construction:	12 x 1 single braid construction
Coating:	Marlow ArmourCoat Polyurathane
Relative Density:	0.97 (floats)
Chemical Resistance:	Excellent resistance to most chemicals
UV Resistance:	Very good
Melting Point:	140°C
Critical Temperature:	80°C (exposure to temperatures over this will result in permanent strength loss)
Creep:	Creep is a factor of load, temperature and time. Increasing any of these factors will increase creep.

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Certificate Number 315
ISO 9001
ISO 14001