

Marlow® DATASHEET

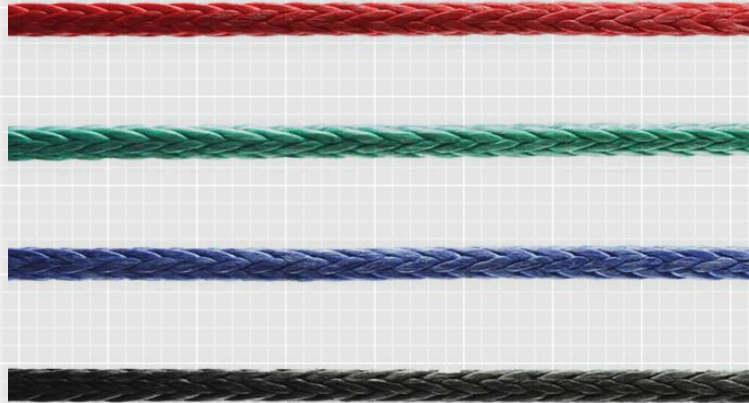
D12 MAX 75/78

Marlow D12 Max 75 and D12 Max 78 are premium lightweight, high strength, low elongation "all round" ropes manufactured using Dyneema® SK75 or SK78, delivering industry leading strength, stiffness, durability and longevity.

D12 Max 75 and 78 have identical strength and elongation, but in In permanent load situations D12 Max 78 (utilising SK78) exhibits industry leading low creep (permanent elongation from extended time under load), bettered only by Dyneema's own DM20 material.

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.

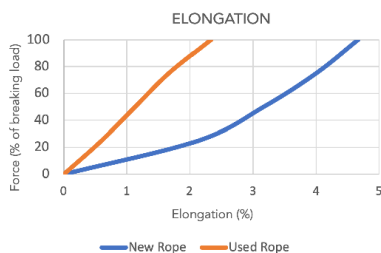
D12 Max 78 is manufactured using Bio based Dyneema® for improved sustainability and a lower impact on the environment.



Nominal Diameter		Mass (Weight)		Minimum Linear Strength ISO 2307			Minimum Spliced Strength			Average Spliced Strength		
mm	Inch	g/m	lb/100 ft	kg	lb	kN	kg	lb	kN	kg	lb	kN
2.5	3/32	4.50	0.30	1,040	2,280	10.2	935	2,060	9.20	1,010	2,210	9.90
3	1/8	6.80	0.46	1,560	3,430	15.2	1,400	3,080	13.7	1,510	3,320	14.8
4	5/32	11.10	0.74	2,560	5,630	25.1	2,300	5,070	22.6	2,480	5,450	24.3
5	3/16	15.60	1.05	3,310	7,270	32.4	2,980	6,550	29.2	3,200	7,040	31.4
6	7/32	22.30	1.50	4,730	10,400	46.3	4,250	9,360	41.7	4,570	10,100	44.9
7	1/4	35.60	2.39	7,760	17,100	76.1	6,980	15,400	68.5	7,510	16,500	73.7
8	5/16	44.50	2.98	9,700	21,300	95.1	8,730	19,200	85.6	9,390	20,700	92.1
9	3/8	54.00	3.62	11,200	24,500	109	10,000	22,100	98.5	10,800	23,700	106
10	13/32	63.00	4.22	13,000	28,600	128	11,700	25,800	115	12,600	27,700	124
11	7/16	75.50	5.06	15,600	34,300	153	14,100	30,900	138	15,100	33,200	148
12	15/32	90.00	6.04	18,600	40,900	182	16,700	36,800	164	18,000	39,600	177
13	1/2	107.00	7.18	21,900	48,100	214	19,700	43,300	193	21,100	46,500	207
15	9/16	134.00	8.99	27,300	60,100	268	24,600	54,100	241	26,400	58,200	259
17	11/16	184.00	12.3	33,900	74,700	333	30,600	67,200	300	32,900	72,300	322

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
SK75	20%	16 Deg. C	2.3% / yr	7 Years
SK78	20%	16 Deg. C	0.5% / yr	15 Years

Key Specifications:

Material:	Dyneema SK75/78
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
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