

Marlow® DATASHEET

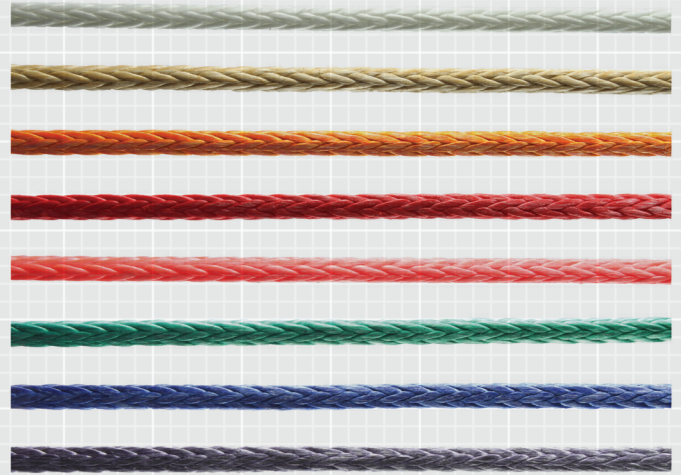
D12 75 & 78

Marlow D12 75 & D12 78 is a premium lightweight, high strength, low elongation "all round" rope manufactured using Dyneema® SK75 or SK78, delivering high strength strength, stiffness, durability and longevity.

D12 75 and 78 have identical strength and elongation, but in permanent load situations D12 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 is pre-stretched to reduce constructional stretch and bedding-in issues on first use.

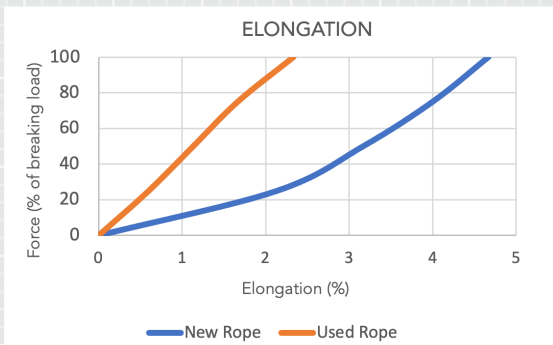
D12 has a multitude of uses and applications in commercial and leisure applications from lifting and winching to lashings and purchase systems. Primarily, D12 can be seen as a credible alternative to steel wire.



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	3.70	0.25	677	1,490	6.67	609	1,341	6.00	677	1,490	6.60
3	1/8	5.30	0.36	1,184	2,604	11.7	1,066	2,344	10.50	1,184	2,605	11.6
3.5	9/64	7.40	0.50	1,707	3,754	16.8	1,536	3,379	15.1	1,706	3,754	16.7
4	5/32	9.80	0.66	2,447	5,382	24.0	2,202	4,844	21.6	2,447	5,383	24.0
5	3/16	12.8	0.86	2,803	6,168	27.6	2,523	5,551	24.8	2,804	6,168	27.5
6	7/32	17.7	1.19	4,150	9,129	40.7	3,735	8,216	36.6	4,150	9,129	40.7
7	1/4	28.0	1.88	6,379	14,032	62.6	5,741	12,629	56.3	6,378	14,032	62.6
8	5/16	33.0	2.21	7,532	16,572	73.9	6,779	14,915	66.5	7,533	16,572	73.9
9	3/8	37.6	2.52	8,259	18,169	81.0	7,433	16,352	72.9	8,259	18,169	81.0
10	13/32	48.3	3.24	11,036	24,279	108	9,932	21,851	97.4	11,036	24,279	108
11	7/16	58.2	3.90	13,794	30,348	135	12,415	27,313	122	13,794	30,348	135
13	1/2	76.0	5.10	18,387	40,452	180	16,548	36,407	162	18,387	40,452	180
15	9/16	98.0	6.57	21,364	47,002	210	19,228	42,302	189	21,365	47,003	210
16	5/8	113	7.58	24,474	53,844	240	22,027	48,460	216	24,475	53,845	240
18	11/16	133	8.92	29,174	64,183	286	26,257	57,765	258	29,174	64,183	286
20	25/32	180	12.1	38,883	85,543	381	34,995	76,989	343	38,883	85,543	381

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.