

# Marlow DATASHEET<sup>®</sup>

## D12 99

Marlow D12 99 is a premium lightweight, high strength, low elongation "all round" rope manufactured using Dyneema<sup>®</sup> SK99, delivering very high strength, stiffness, durability and longevity.

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.

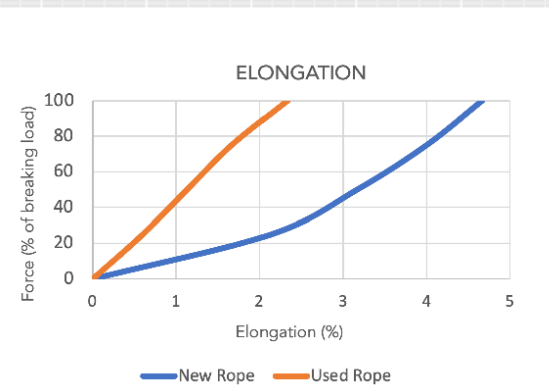
D12 has a multitude of uses and applications in commercial and leisure applications from lifting and winching to lashings and purchase systems. Primarily, D12 can be seen as a credible alternative to steel wire.



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 <sup>®</sup>	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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