

Marlow® DATASHEET

D12+99

Marlow D12+ 99 is a premium and versatile single braid rope offering a lightweight, very high strength and flexible alternative to steel wire and even polyester ropes, manufactured with Dyneema® SK99

Dyneema® SK99 offers 20% more strength than Dyneema®SK75 or 78, offers class beating quality and consistency and comes with decades of proven project success and lifetime reliability. Add to this the technical and data back up of the experts at Dyneema® and Bio-Dyneema sustainability a product of superior quality and performance.

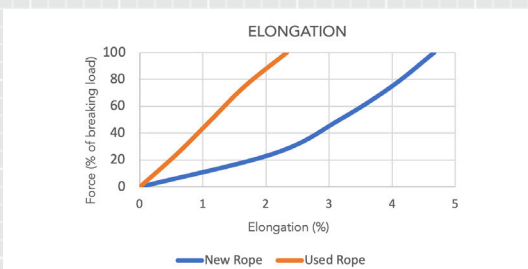
D12+ 99 has been designed to offer significantly improved strength, handling and service life and subsequently can provide a more cost effective, trusted and sustainable solution compared to alternative products.



Nominal Diameter		Mass (Weight)		Minimum Linear Strength ISO 2307			Minimum Spliced Strength			Grommet
mm	Inch	kg/m	lb/100 ft	kg	lb	kN	kg	lb	kN	kN
18	3/4	0.20	13	41,518	91,339	407	37,366	82,205	367	605
20	13/16	0.24	16	49,848	109,665	489	44,863	98,699	440	726
22	7/8	0.29	19	58,707	129,155	576	52,836	116,239	518	855
24	1	0.32	21	64,392	141,663	632	57,953	127,497	569	938
26	1 1/16	0.39	26	78,276	172,206	768	70,448	154,986	691	1,140
28	1 1/8	0.43	29	84,754	186,460	831	76,279	167,814	748	1,235
30	1 1/4	0.52	35	101,282	222,821	994	91,154	200,539	894	1,475
32	1 5/16	0.58	39	111,860	246,092	1,097	100,674	221,483	988	1,630
34	1 3/8	0.64	43	120,454	265,000	1,182	108,409	238,500	1,063	1,755
36	1 1/2	0.69	47	129,313	284,489	1,269	116,382	256,040	1,142	1,884
38	1 9/16	0.78	52	145,556	320,222	1,428	131,000	288,200	1,285	2,120
40	1 5/8	0.87	58	158,667	349,067	1,557	142,800	314,160	1,401	2,311
44	1 3/4	1.04	70	183,789	404,336	1,803	165,410	363,902	1,623	2,677
48	2	1.22	82	211,556	465,422	2,075	190,400	418,880	1,868	3,082
52	2 1/8	1.48	99	255,189	561,416	2,503	229,670	505,274	2,253	3,718
56	2 1/4	1.65	111	282,956	622,502	2,776	254,660	560,252	2,498	4,122
60	2 1/2	1.91	128	321,300	706,860	3,152	289,170	636,174	2,837	4,681
64	2 5/8	2.17	145	359,644	791,218	3,528	323,680	712,096	3,175	5,239
68	2 11/16	2.43	163	397,989	875,576	3,904	358,190	788,018	3,514	5,798
72	2 13/16	2.78	186	452,200	994,840	4,436	406,980	895,356	3,992	6,588
76	3 1/8	3.04	204	490,544	1,079,198	4,812	441,490	971,278	4,331	7,146
80	3 3/16	3.39	227	544,756	1,198,462	5,344	490,280	1,078,616	4,810	7,936

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
SK99	20%	16 Deg. C	1.1% / yr	10 Years
DM20	20%	16 Deg. C	0.01% / yr	25 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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