

Marlow DATASHEET [®]

D12+ 75/78

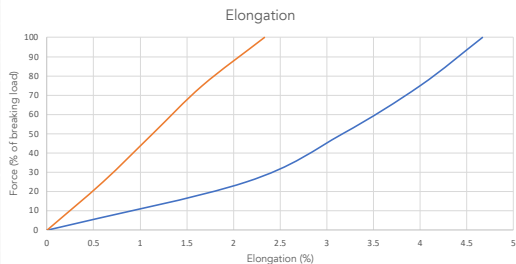
Marlow D12+ is a premium and versatile “all round” single braid rope offering a lightweight, high strength and flexible alternative to steel wire and even polyester ropes, manufactured with Dyneema® SK75 or SK78. Dyneema sk78 offers improved creep performance.

Dyneema® offers class leading 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 ensuring a product of superior quality and performance.

D12+ 75 or 78 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	34,889	76,756	342	31,400	69,080	308	508
20	13/16	0.24	16	41,889	92,156	411	37,700	82,940	370	610
22	7/8	0.29	19	49,333	108,533	484	44,400	97,680	436	719
24	1	0.32	21	54,111	119,044	531	48,700	107,140	478	788
26	1 1/16	0.39	26	65,778	144,711	645	59,200	130,240	581	958
28	1 1/8	0.43	29	71,222	156,689	699	64,100	141,020	629	1,038
30	1 1/4	0.52	35	85,111	187,244	835	76,600	168,520	751	1,240
32	1 5/16	0.58	39	94,000	206,800	922	84,600	186,120	830	1,369
34	1 3/8	0.64	43	101,222	222,689	993	91,100	200,420	894	1,475
36	1 1/2	0.69	47	108,667	239,067	1,066	97,800	215,160	959	1,583
38	1 9/16	0.78	52	122,222	268,889	1,199	110,000	242,000	1,079	1,781
40	1 5/8	0.87	58	133,333	293,333	1,308	120,000	264,000	1,177	1,942
44	1 3/4	1.04	70	154,444	339,778	1,515	139,000	305,800	1,364	2,250
48	2	1.22	82	177,778	391,111	1,744	160,000	352,000	1,570	2,590
52	2 1/8	1.48	99	214,444	471,778	2,104	193,000	424,600	1,893	3,124
56	2 1/4	1.65	111	237,778	523,111	2,333	214,000	470,800	2,099	3,464
60	2 1/2	1.91	128	270,000	594,000	2,649	243,000	534,600	2,384	3,933
64	2 5/8	2.17	145	302,222	664,889	2,965	272,000	598,400	2,668	4,403
68	2 11/16	2.43	163	334,444	735,778	3,281	301,000	662,200	2,953	4,872
72	2 13/16	2.78	186	380,000	836,000	3,728	342,000	752,400	3,355	5,536
76	3 1/8	3.04	204	412,222	906,889	4,044	371,000	816,200	3,640	6,005
80	3 3/16	3.39	227	457,778	1,007,111	4,491	412,000	906,400	4,042	6,669



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 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
ISO 14001