

Marlow® DATASHEET

12 STRAND POLYESTER

Traditional 12-Strand polyester ropes used in numerous applications. Polyester has low elongation and high tenacity with excellent flex fatigue. Torque balanced construction with a firm round profile which is easily splice and used for general working lines, secondary mooring lines, mooring pendants, slings and strops.



NOMINAL DIAMETER		MASS		MIN STRENGTH		
mm	Inch	g/m	lb/100 ft	kg	lb	kN
8	5/16	48	3.22	1130	2486	11.1
10	13/32	77	5.16	1770	3894	17.4
12	15/32	113	7.58	2549	5608	25.0
14	9/16	145	9.72	3470	7634	34.0
16	5/8	194	13.01	4334	9535	42.5
18	3/4	242	16.23	5470	12034	53.7
20	13/16	307	20.59	6832	15030	67.0
24	15/16	420	28.17	9687	21311	95.0
28	1 1/8	603	40.44	12746	28041	125.0
32	1 1/4	770	51.64	16315	35893	160.1
36	1 27/64	980	65.72	20394	44867	200.1
40	1 37/64	1190	79.80	25493	56085	250.1
44	1 3/4	1401	93.95	30591	67300	300.1
48	1 7/8	1681	112.73	36200	79640	355.1
52	2 3/64	1961	131.51	43338	95344	425.1
56	2 13/64	2311	154.98	48436	106559	475.2
60	2 3/8	2661	178.45	54045	118899	530.2
64	2 1/2	3011	201.93	61183	134603	600.2
68	2 11/16	3361	225.40	69100	152020	677.9
72	2 7/8	3851	258.26	76479	168253	750.3
76	3	4202	281.80	85300	187660	836.8
80	3 5/32	4727	317.01	96873	213121	950.3
88	3 1/2	5602	394.33	114208	251258	1120.4
96	3 3/4	6653	468.77	134603	296127	1320.5
104	4 1/16	7878	550.58	163155	358941	1600.6
112	4 3/8	9279	638.44	183549	403808	1800.6

Key Specifications:

Material:	Polyester
Construction:	12 strand braided construction
Relative Density:	1.38 Exact figure varies with diameter
Chemical Resistance:	Good resistance to most chemicals
UV Resistance:	Good
Melting Point:	260°C
Spliced Eye Termination:	12 strand core splice

ELONGATION

Typical working elongation (for a bedded in a rope):

- @ 10% of break load: 1.90%
- @ 20% of break load: 3.50%
- To break: 11.5%

