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 firm round profile, 12-Strand PES is easily splice and used for general working lines, secondary mooring lines, mooring pendants, slings and strops.

**APPLICATIONS** 

Mooring Pendants, Secondary Mooring Lines, General Working Lines, Slings, Strops

DATASHEE

(R)

MATERIAL MANUFACTURED FROM POLYESTER	R: Unaffected by water Low creep Zero shrinkage Good UV resistance Good abrasion and heat resistance			
CONSTRUCTION TWISTED FIBRE CONSTRUCTION: 12 STRAND BRAIDED CONSTRUCTIO	Improved abrasion resistance Optimised pitch to yarn twist - improves strength and longevity Firmer rounder rope, aids handling Easy to splice Flexible product and easily handled Torque balanced			
PROPERTIES RELATIVE DENSITY: CHEMICAL RESISTANCE: UV RESISTANCE: MELTING POINT:	1.38 Exact figure varies with diameter Good resistance to most chemicals (additional information available on request) Good 260°C			
TERMINATIONS SPLICED EYE TERMINATION:	12 strand core splice An allowance of 50x rope diameter should be made for the overall length of the splice. To optimise the efficiency of a soft eye splice (without a thimble), the angle formed at the neck of the splice should be 30° or less, meaning that when flat, the length of the eye must be 2.7x the diameter of the object over which the splice will be used. A splice will normally increase the diameter of the rope between 1.5x and 1.75x			

## **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%



# PERFORMANCE

DIAMETER	CIRCUMFERENCE	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
120	4 3/4	10854	730.98	203943	448675	2000.7

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