

LINES

In racing, the crew and the boat are inseparable, we have to forget ourselves and put all of our energy for the team... the boat... the victory...

> Introductory word New sophisticated technologies, modern machinery, exacting

modern machinery, exacting production and final inspection are a matter of course for yachting lines produced under the LANEX Yachting Ropes brand.

Being supported by a number of leading sailors, we want to rank among the leading manufacturers of yachting lines in the world. Our development

i	ntroduction of LANEX	3
	Racing Line	4 – 9
	Sport line	10 - 13
	Cruising Line	14 – 19
	ock and Mooring Line	20 – 25
1	Universal Line	26 - 31
	Technical data	32 - 35

personnel together with teams of sailors participate in the development and testing of lines directly "on water", both under real conditions and under simulated conditions in a state-of-theart laboratory. Our ropes and lines are being sold in more than 30 countries over the world, including Europe, USA, Canada, Australia, Russia and South America. Considering the fifty years 'tradition of production of ropes and lines, LANEX is a specialist in the production of ropes and lines with a wide assortment of products, in-house production of fibres, and R&D center.

Our mission is to deliver lasting values – reliability, ease of use and performance.





Racing line

D-F1	Zero
D-F2	Zero Plus
D–Race	Dynestorm

D-F1



Number one among halyard lines. D-F1 is a strong line with minimum elongation. The line surface is finished with a special coating produced by LANEX, that assures excellent abrasion resistance and stability when exposed to UV radiation.

Low weight, elongation up to 1 % by 20 % of breaking load, floating on water, extreme strength.

Diameter		Breaking Load		Weight		
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet	
4	5/32	1700	3740	0.9	0.6	
5	3/16	2900	6380	1.6	1.1	
6	1/4	3700	8140	2.2	1.5	
8	5/16	7500	16500	4.4	2.9	
10	3/8	9900	21780	7.5	5.0	
12	1/2	17000	37400	9.6	6.4	
14	5/8	24000	52800	13.5	9.1	



D-F2

CONSTRUCTION: 12-strand braided heat set line MATERIAL: 100% Dyneema SK 78, special surface finish



A softer version of the D–F1 line. It is flexible and excellent for splicing. This low weight line is great for tackle, soft shackles, endless loops, etc.

Low weight, elongation up to 1 % by 20 % of breaking load, easy to splice, floating on water, extreme strength.

Diameter		Breaking Load		
mm	Inch	daN	lbs	
2	1/12	350	770	
3	1/8	750	1650	
4	5/32	1200	2640	
5	3/16	2300	5060	
6	1/4	2600	5720	
8	5/16	5300	11660	
10	3/8	8800	19360	

Weight					
(g/100 m	lbs /100 feet				
0.3	0.2				
0.5	0.3				
0.9	0.6				
1.6	1.1				
2.2	1.5				
4.4	3.0				
7.5	5.0				

D–Race

CONSTRUCTION: Double braided heat set line 100% Dyneema SK 78, braided CORE: INNER COVER: Polyester staple (line diameters from 6 mm) OUTER COVER: High Tenacity Polyester

D-RACE is line with high strength and extremely strong cover. Holds well in stoppers. Due to the sophisticated process of core heat setting and fibre stretching, the line feels stiff to the touch but during the first days of use gets required flexibility.

Robust cover, long service life, holds in stoppers, works well in blocks.

Diameter		Breaking Load		Weight	
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
3	1/8	400	880	0.7	0.8
4	5/32	750	1650	1.0	0.7
5	3/16	1300	2860	1.5	1.0
6	1/4	1800	3960	2.8	1.9
8	5/16	3300	7260	4.7	3.2
10	3/8	5550	12210	7.6	5.1
12	1/2	8200	18040	9.9	6.7
14	9/16	10200	22440	12.0	8.1



Zero

CONSTRUCTION: Double braided line CORE: 100% Dyneema SK 78, braided special surface finish COVER: High Tenacity Polyester

Ideal racing Halyard. Easy to taper. The core is line D–F1. Considering its extraordinary properties, the rope is the first choice for all serious racers and cruisers.

Outstanding performance, extremely high breaking load, perfectly hold in stoppers.

Diameter		Breaking Load		Weight	
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
6	1/4	1600	3520	2.1	1.4
8	5/16	2800	6160	3.9	2.6
10	3/8	3700	8140	6.4	4.3
12	1/2	6500	14300	8.8	5.9

Zero Plus

CONSTRUCTION:	Double braided line
CORE:	100% Dyneema SK 78, braided special surface finish
COVER:	HT Polyester/Aramid

Best line in the racing series. The abrasion resistance is ultimate due to the material mixture in the cover. The cover can handle temperature up to 400 °C. Easy to taper. Elongation is up to 1 % by 20 % of breaking load.

Hard-core racing is what the line was designed for.

Diameter		Breaking Load		Weight	
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
6	1/4	1700	3740	2.2	1.5
8	5/16	2900	6380	4.0	2.7
10	3/8	3800	8360	6.5	4.4
12	1/2	6600	14520	8.9	6.0



Dynestorm

CONSTRUCTION: Double braided line

CORE:

100% Dyneema SK 78, braided special surface finish

HT Polyester/Cordura

COVER:

This line meets expectations of all racers. Cordura in the cover gives this line excellent grip and handling. The core, D-F2 can be used separately.

Perfect grip, good abrasion resistance, mixture of Dyneema and Cordura.

Diameter		Breaking Load		Weight	
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
3	1/8	410	902	0.6	0.4
4.5	5/32	1100	2420	1.4	0.9
6	1/4	1660	3652	2.1	1.4
8	5/16	3070	6754	3.8	2.6
10	3/8	4900	10780	6.3	4.2
12	1/2	6000	13200	8.7	5.8
14	9/16	8400	18480	11.0	7.4
16	5/8	10900	23980	14.7	9.9





Sport line

Levante	D-F3
D–Jib	



Levante

CONSTRUCTION:Double braided lineCORE:100% Nexsteel (HMPE)COVER:High Tenacity Polyester

Outstanding performance for the price.

In comparison with other racing lines, Levante contains Nexsteel (LANEX tested HMPE) material in the core. In our assessment, this line offers the best performance for the price.

Elongation up to 3 % by 20 % of breaking load.

Diameter		Breaking Load		Weight	
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
6	1/4	1800	3960	2.5	1.7
8	5/16	3500	7700	4.5	3.0
10	3/8	4100	9020	6.9	4.6
12	1/2	5800	12760	10.2	6.9
14	9/16	7500	16500	11.5	7.7

D–Jib

CONSTRUCTION: Single braided line MATERIAL: Dyneema SK 78/Polyester



State of the art line for dinghies and sport boats.

The D–Jib is a soft line that is very good in the hands and does not kink. Due to the processing of a special polyester with Dyneema fibre, the D–Jib guarantees high abrasion resistance and low elongation. When wet, the D–Jib is easy to grip and does not slip in your hands. In addition, it can be spliced very easily.

Diameter		Breaking Load		Weight	
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
3	1/8	400	880	0.6	0.4
4	5/32	600	1320	1.0	0.7
5	3/16	900	1980	1.2	0.8
7	3/10	1300	2860	2.6	1.8
9	3/8	2100	4620	4.4	2.7



D-F3

CONSTRUCTION: 12-strand braided heat set line MATERIAL: 100% Nexsteel (HMPE) + special surface finish

New in our product range!

Developed in cooperation with riggers for all standing rigging applications, where minimal elongation is necessary. The line surface is finished with Polyurethane coating, which gives you excellent resistance against UV and abrasion.

Elongation of the line reaches max. 2 % by 30 % of breaking load.

Diameter		Breaking Load		Weight	
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
2	1/12	340	661	0.3	0.2
3	1/8	800	1763	0.5	0.3
4	5/32	1000	2204	0.8	0.5
5	3/16	2250	5070	1.4	0.8
6	1/4	3100	7054	2.0	1.3
8	5/16	5200	11684	3.6	2.4
10	3/8	7750	17416	4.6	3.1
12	1/2	11500	25794	8.0	5.4
14	9/16	20000	44974	11.7	7.9
16	5/8	26000	58422	15.1	10.1







Cruising Line

Meltemi Fix Hurricane Blizzard plus Sky Zephyr touch

Ocean

Aquarius

Meltemi Fix

CONSTRUCTION: Double braided line Polyester heat set, pre-stretched High Tenacity Polyester



Universal line MELTEMI FIX is a strong and exceptionally soft line, retaining its flexibility and softness even if wet. Line is heat set and pre-stretched. This is a reliable line for all types of applications.

Meltemi Fix offers the best spliceability in the Cruising Line series.

Diameter		Breaking Load		Weight		
	mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
	6	1/4	1200	2640	2.7	1.8
	8	5/16	1950	4290	5.5	3.7
	10	3/8	2900	6380	8.1	5.4
	12	1/2	3700	8140	13.0	8.7
	14	9/16	4500	9900	15.9	10.7
	16	5/8	5100	11220	18.6	12.5

Hurricane

CONSTRUCTION: Double braided line Polyester CORE: High Tenacity Polyester COVER:

Flexible line with very good strength and low elongation. Universal use for sheets and halyards. Thanks to technical innovations, HURRICANE displays outstanding strength in its group and moreover is very easy to splice.

Diar	Diameter		ng Load	Weight	
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
6	1/4	960	2112	2.7	1.8
8	5/16	1600	3520	5.1	3.4
10	3/8	2500	5500	7.8	5.2
12	1/2	3050	6710	11.0	7.4
14	9/16	3900	8580	13.9	9.3
16	5/8	4850	10670	17.3	11.6
18	3/4	5500	12100	20.9	14.0





Weight					
cg/100 m	lbs /100 feet				
1.3	0.9				
1.8	1.2				
2.4	1.6				
4.8	3.2				
6.3	4.2				
10.4	7.0				
14.3	9.6				

Sky

DNSTRUCTION:	Double braided line, heat set, pre-stretched
ORE:	Polyester
OVER:	High Tenacity Polyester, pre-stretch

Heat set, pre-stretched 24-strand cover, 12-strand core. Ideal choice for your new halyards.

Line is universal, works fine for all applications.

Diameter		Breaking Load		Weight	
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
6	1/4	900	1980	3.2	2.2
8	5/16	1700	3740	5.0	3.4
10	3/8	2600	5720	8.5	5.7
12	1/2	3100	6820	11.5	7.7



Zephyr touch

The best option for sailors, who love a compact line with a unique design. Staple in cover offers perfect handling. The best choice for sheets.

Diameter		Breaking Load		Weight	
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
6	1/4	980	2156	2.6	1.7
8	5/16	1330	2926	5.0	3.4
10	3/8	1910	4202	7.0	4.7
12	1/2	3200	7040	10.8	7.3
14	9/16	3900	8580	13.5	9.0
16	5/8	4430	9746	17.1	11.5



Ocean

CONSTRUCTION:	Double braided lin
CORE:	Polyester
COVER:	Cordura/Polyester



A smart choice for all sailors. Cordura in the cover makes the line grip simply fantastic. This PES braided flexible line has good service life and many applications.

neter	Breaking Load		
Inch	daN	lbs	
1/4	1000	2200	
5/16	1440	3168	
3/8	2800	6160	
1/2	3062	6736.4	
	neter Inch 1/4 5/16 3/8 1/2	neter Breaking Inch daN 1/4 1000 5/16 1440 3/8 2800 1/2 3062	Breaking Load Inch daN Ibs 1/4 1000 2200 5/16 1440 3168 3/8 2800 6160 1/2 3062 6736.4



Weight					
kg/100 m	lbs /100 feet				
2.9	2.0				
5.1	3.4				
7.8	5.2				
10.7	7.2				

Aquarius

CONSTRUCTION:	Braided line with twisted core
CORE:	Polypropylene multifilament, parallel-arranged twisted core
COVER:	Polypropylene multifilament



A simple floating line for universal use. Aquarius will be a great choice for fender line same as for light spinnaker sheet line in very low wind.

Dian	neter Breaking Load Weight		ight		
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
6	1/4	400	880	2	1.3
8	5/16	1000	2200	3	2.0
10	3/8	1500	3300	4.9	3.3
12	1/2	2000	4400	6.4	4.3







Dock and Mooring lines

Laguna	Key West
Vision	Bahama
Flexi dock	Malaga



Laguna

 CONSTRUCTION
 Double braided line

 CORE:
 High Tenacity Polyester

 COVER:
 High Tenacity Polyester

Dock line, made of top quality Polyester fibre with outstanding abrasion resistance. Easy to splice, because of its 16-strand cover construction.

Best selling long life line in the dock and mooring line category.

				,	
Dian	Diameter		ng Load	We	eight
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
8	5/16	2060	4532	5.6	3.8
	3/8	2200	4840	6.6	4.4
12	1/2	2900	6380	10.5	7.0
14	9/16	3500	7700	13.3	8.9
16	5/8	4050	8910	18.1	12.1
18	3/4	5200	11440	21.0	14.1
20	13/16	6300	13860	27.3	18.3
22	7/8	10000	22000	37.5	25.2
24		11050	24310	41.2	27.6
28	1–1/8	13000	28600	56.0	37.6
30	1–1/4	15500	34100	63.0	42.3
32	1–5/16	19000	41800	79.1	53.1

Vision

CONSTRUCTION:	Double braided line
CORE:	Polypropylene multifilament yarn
COVER:	Polyester with reflective tape



A traditional product made by LANEX. The proved construction of the line incorporates a very important element – reflective tape. Thanks to this yarn, the line reflects light and you will always know exactly where your line is. You will appreciate safety and comfort of use in poorly lit marinas or during bad weather conditions.

Dian	ameter Breaking Load Weight		ight		
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
10	3/8	2200	4840	6.4	4.3
12	1/2	2600	5720	7.9	5.3
14	9/16	3900	8580	10.7	7.2
16	5/8	4100	9020	15.1	10.1



Flexi dock



Extremely elastic rope, soft and strong. Once you touch it, you will never change it for anything else.

Easy to splice, easy to handle, hard to destroy.

Dian	neter	Breakir	ig Load	We	ight
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
12	1/2	2600	5720	9.6	6.5
14	9/16	4800	10560	11.9	8.0
16	5/8	5040	11088	15.3	10.3
18	3/4	6650	14630	18.8	12.6
20	13/16	8130	17886	23.6	15.9

Key West

CONSTRUCTION: 3-strand twisted line High Tenacity Polyester MATERIAL:

Key West – conventional mooring line with a simple construction, easy to splice, with excellent abrasion resistance and a long service life.

Dian	neter	Breakir	ng Load	We	ight
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
	5/16	1060	2332	4.9	3.3
10	3/8	1620	3564	7.6	5.1
12	1/2	2300	5060	10.9	7.3
14	9/16	3090	6798	14.9	10.0
16	5/8	4000	8800	19.4	13.0
18	3/4	5000	11000	24.6	16.5
20	13/16	6100	13420	30.3	20.4
22	7/8	7310	16082	36.7	24.7
24	15/16	8610	18942	43.7	29.4
26	1	10100	22220	51.2	34.4
36	13/8	19000	41800	98.2	66.0



Bahama



Bahama – traditional mooring line with simple splicing and high breaking load. Gives you the highest elongation from all common materials.

Dian	neter	Breakir	ng Load	
mm	Inch	daN	lbs	
	1/4	800	1760	
8	5/16	1400	3080	
10	3/8	2120	4664	
12	1/2	3010	6622	
14	9/16	4000	8800	
16	5/8	5190	19783	
18	3/4	6430	11418	
20	13/16	8000	14146	
22	7/8	9500	17600	
26		12900	28380	
30	1–1/4	17000	37400	

Malaga

CONSTRUCTION: 3-strand twisted line Polypropylene multifilament MATERIAL:



Dian	Diameter Breaking Load Weight		Breaking Load		ight
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
	5/32	319	702	0.7	0.5
6	1/4	670	1474	1.0	1.1
	5/16	1180	2596	2.9	2.0
10	3/8	1700	3740	4.5	3.0
12	1/2	2500	5500	6.5	4.4
14	9/16	3350	7370	8.9	6.0
16	5/8	4250	9350	11.6	7.8
18	3/4	5300	11660	14.6	9.8
20	13/16	6300	13860	18.1	12.2
22	7/8	7500	16500	21.9	14.7
26	1	10600	23320	30.6	20.6
30	1–1/4	13200	29040	40.7	27.3



Weight			
(g/100 m	lbs /100 feet		
2.2	1.5		
4.0	2.7		
6.2	4.1		
8.9	6.0		
12.1	8.1		
15.8	10.6		
20.0	13.4		
24.7	16.6		
29.9	20.1		
41.7	28.0		
55.5	37.2		





Universal line

Bora

Leech line

Shock cord

Energy

Mariner

SOS line

Oldtimer

Bora

CONSTRUCTION: Braided line with parallel core Polyester, parallel-arranged twisted core CORE: COVER: High Tenacity Polyester

AVAILABLE ALSO ON MINIREELS

Due to the construction of the core, the spliceability of this line is poor. Originally, this line has been developed for military purposes, but it can be used as a universal auxiliary line under any conditions. It is the best-selling universal line.

Dian	neter	Breakir	ig Load	Wei	ight
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
2	1/12	100	220	0.3	0.2
3	1/8	200	440	0.5	0.3
4	5/32	500	1100	1.5	1.0
5	3/16	550	1210	2.0	1.3
6	1/4	900	1980	3.2	2.2
8	5/16	1300	2860	5.2	3.5
10	3/8	1900	4180	7.2	4.8
12	1/2	2200	4840	9.5	6.4
14	9/16	3500	7700	14.2	9.5

Leech line

CONSTRUCTION:	Double braided line
CORE:	PES/Aramid
COVER:	High Tenacity Polyeste

A very compact line with low elongation, intended especially for sailmakers. The combination of materials used guarantees excellent strength and resistance to mechanical abrasion, higher temperatures and chemicals.

Diameter		Breaking Load		Weight		
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet	
2	1/12	170	374	0.5	0.3	
3	1/8	330	726	0.8	0.5	
4	5/32	440	968	1.2	0.8	



Shock cord

CONSTRUCTION: Braided line with parallel-arranged core Latex, parallel-arranged strands CORE: COVER: Polyester



Flexible latex line suitable for many applications aboard. It offers an extraordinary resistance to abrasion and UV radiation thanks to the cover made of polyester.

Diam	neter	Weight			
mm	Inch	kg/100 m	lbs /100 feet		
3	1/8	0.8	0.5		
4	5/32	1.1	0.7		
5	3/16	1.9	1.3		
6	1/4	2.6	2.0		
8	5/16	4.8	3.2		
10	3/8	7.5	5.0		

Energy

MATERIAL:

CONSTRUCTION: Braided coreless line Polypropylene multifilament



The energy line gives you a lightweight, floating line, which is an economic option for plenty of applications on the boat. Do not worry about the UV radiation as the line is stabilized and protected during our own extrusion program.

neter	Breaking Load		Weight	
Inch	daN	lbs	kg/100 m	lbs /100 feet
1/12	90	198	0.2	0.1
1/8	160	352	0.3	0.2
5/32	290	638	0.7	0.5
3/16	350	770	0.9	0.6
1/4	450	990	1.3	0.9
5/16	650	1430	2.5	1.7
3/8	900	1980	3.6	2.4
1/2	1250	2750	5.6	3.8
9/16	1600	3630	7.8	5.2
	Inch 1/12 1/8 5/32 3/16 1/4 5/16 3/8 1/2 9/16	neter Breakin Inch daN 1/12 90 1/8 160 5/32 290 3/16 350 1/4 450 5/16 650 3/8 900 1/2 1250 9/16 1600	Breaking Load Inch Breaking Load 1/12 90 198 1/12 90 198 1/8 160 352 5/32 290 638 3/16 350 770 1/4 450 990 5/16 650 1430 3/8 900 1980 1/2 1250 2750 9/16 1600 3630	Breaking Load Wei Inch daN Ibs kg/100 m 1/12 90 198 0.2 1/8 160 352 0.3 5/32 290 638 0.7 3/16 350 770 0.9 1/4 450 990 1.3 5/16 650 1430 2.5 3/8 900 1980 3.6 1/2 1250 2750 5.6 9/16 1600 3630 7.8

Mariner

CONSTRUCTION:Braided line with parallel coreCORE:Polyamide parallel-arranged twisted coreCOVER:Polyamide

MARINER is an auxiliary nylon line, highly flexible and elastic. It is suitable to be used as flag halyard or for fastening of objects. When used in salt water, the line becomes shorter and stiffer.

Diameter		Breaking Load		Weight		
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet	
2	1/12	170	374	0.3	0.2	
3	1/8	240	528	0.7	0.5	
4	5/32	470	1034	0.9	0.6	
5	3/16	650	1430	1.6	1.1	
6	1/4	950	2090	2.7	1.8	
8	5/16	1300	2860	4.5	3.0	

SOS line

CONSTRUCTION:Braided line with parallel coreCORE:Polypropylene multifilamentCOVER:Polypropylene multifilament

The most important line on the boat, when you get in trouble. Very light and compact line that gives you the perfect grip, even when it is wet and you need to catch it.

NOTE: Available in yellow colour with reflective yarn – Rescue line (Double braided construction)

Diameter		Breaking Load		Weight		
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet	
8	5/16	750	1650	3.5	3.4	
10	3/8	950	2090	4.0	2.9	
RESCUE L	INE					
10	3/8	1680	3696	4.5	3.0	



Oldtimer

CONSTRUCTION:3-strand twisted lineMATERIAL:Polypropylene staple

OLDTIMER is made of an up-to-date synthetic material the appearance of which resembles natural material and is especially suitable for traditional boats. Thanks to the material used, OLDTIMER provides better strength and utility properties compared to lines made of natural materials.

Dian	neter	Breaking Load		Weight	
mm	Inch	daN	lbs	kg/100 m	lbs /100 feet
6	1/4	355	781	1.6	1.1
8	5/16	595	1309	2.8	1.9
10	3/8	900	1980	4.3	2.9
12	1/2	1340	2948	6.3	4.2
14	9/16	1740	3828	8.1	5.4
16	5/8	2180	4796	10.4	7.0
18	3/4	2730	6006	13.0	8.7
20	13/16	3420	7524	16.0	10.7
22	7/8	4100	9020	19.0	12.7
26	1	5640	12408	27.0	18.1
30*	1–1/4	7235	15917	34.0	22.8
36*	13/8	10500	23100	58.6	39.4

*4-strand twisted construction





Technical Data

Recommended line diameters of mooring and anchoring lines

Recommended line diameters for sheets and halyards of polyester

Conversion table

Storage of lines

Materials

Elongation curves

RECOMMENDED LINE DIAMETERS OF MOORING AND ANCHORING LINES

The length of the ship proves the best guide when recommending the line diameter to be used for mooring and anchoring applications. Based on the ship's displacement, mooring and anchoring lines must be primarily able to withstand the pressure of the flood tide. stream and wind pressure, as a function of the type of the ship.

Note: The given values are for reference only. When furnishing ships with lines, the legislation and registers of the respective countries must be respected above all else.

BOAT LENGTH (feet)	LAGUNA	FLEXI Dock	PA 3 Strand Lines	PES 3 Strand Lines	PPM 3 Strand Lines
20 ft	8 mm		8 mm	10 mm	12 mm
26 ft	10 mm		10 mm	12 mm	14 mm
33 ft	12 mm		12 mm	14 mm	16 mm
38 ft	14 mm	14 mm	14 mm	16 mm	18 mm
45 ft	16 mm	16 mm	16 mm	18 mm	20 mm
52 ft	18 mm	18 mm	18 mm		24 mm

RECOMMENDED LINE DIAMETERS FOR SHEETS AND HALYARDS OF POLYESTER

When using high-strength materials as Vectran or Dyneema®, the line diameter may be reduced by up to 2 mm.

Note: The above stated numbers are approximate values only. The legislation and register of the respective country must be followed when outfitting aboat.

	SHEETS*				HALYARDS*	
BOAT LENGHT (feet)	MAIN	SPIN	GENOA	MAIN	SPIN	GENOA
20 – 26 ft	8 mm	8 mm	10 mm	8 mm	8 mm	8 mm
27 – 29 ft	10 mm	8 mm	10 mm	8 mm	8 mm	8 mm
30 – 33 ft	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm
34 – 38 ft	12 mm	10 mm	12 mm	10 mm	10 mm	10 mm
38 – 42 ft	12 mm	12 mm	14 mm	12 mm	12 mm	10 mm
42 – 46 ft	12 mm	12 mm	14 mm	14 mm	12 mm	14 mm
46 – 52 ft	14 mm	14 mm	16 mm	16 mm	14 mm	14 mm
53 – 58 ft	16 mm	16 mm	18 mm	18 mm	16 mm	18 mm

CONVERSION TABLE

kg	0,454	1	lbs/Pfund	2,247	m	1
lbs	1	2.2	daN	1	ft./pie	3.28

STORAGE OF LINES

The maximum storage life of yachting lines in unused condition is up to 5 years.

Optimum storage conditions:

- clean place protected against light,
- without chemical, physical and mechanical effects.
- normal climate (15 25°C),
- relative humidity of about 65 %.

Note:

During the process of line production, the fibres are mechanically doubled, twisted and braided in several stages. In this way the fibres finally attain a condition of mechanically induced stress. A long-term storage leads to relaxation of the material, which means that macromolecules are "relieving". This effect is not harmful, on the contrary it is connected with an improvement of some properties of the line.

Research works showed that the results of tests of dynamic performance of lines that had been optimally stored for several years were often better than results of tests of lines measured immediately after production.

In case of present-time advanced materials, a considerable negative change of properties of the product in a time interval of 5 years can be eliminated provided that optimum storage conditions are maintained.



MATERIALS

Our lines and cords are designed to meet the highest standards, the most severe weather conditions, UV radiation and constant abrasion. Instead of natural materials, we use synthetic fibers which, if compared with natural fibres, have better properties such as greater strength, lower elongation and longer service life.

The following table shows the properties, displayed by the individual materials.

MATERIAL	UHMWPE	LCP	ARAMID FIBRE	POLYESTER	POLYAMIDE	POLYPROPYLENE MULTIFILAMENT
Trade name	Dyneema [®]	Vectran	Technora	Dacron, Diolen, Trevira	Nylon, Perlon	Multitex
Tenacity (cN/dtex)*	28 – 38	22 – 25	20 – 25	7 – 8	6.5 - 8.3	6 – 7
Elongation at break (%)	3.5	3.3	4.6	10 – 16	16 – 27	20 – 23
Specific gravity (g/cm3)	0.98	1.41	1.44	1.38	1.13	0.91
Melting point (°C)	144 – 152	330	carbonization at 500 °C	260	220	160
Abrasion resistance	very good	high	good	excellent	excellent	satisfying
UV resistance	very good	sensitive	sensitive	excellent	good	good with stabilizators
Salt resistance	excellent	excellent	sensitive	good	good at weak concentration	good at weak concentration
Resistance to acids	excellent	excellent	excellent	predominantly good	-	excellent
Resistance to oil products	excellent	excellent	excellent	excellent	good	good
Creep	creeps under longterm load	immeasurable	hardly measurable	hardly measurable	creeps slightly under tension	creeps under high tension
Knot strength (%)	35 – 50	30 – 35	30 - 40	55 – 60	60 – 65	55 – 65

ELONGATION CURVES

The term "used" denotes used regularly under normal weather conditions. These are labsimulated at tenfold line loading lasting 10 seconds with the loading force amounting to 20% of the maximum strength of the given line.

* strength related to fibre fineness The data given in the table is for reference only.

For sheet and halvard lines

- we recommend to use materials having low elongation, high strength and long service life
- polyester is used in most cases for this category
- new high-tenacity materials like Dyneema® and Vectran are gaining importance for demanding racing applications

Mooring, anchoring and tow lines

- have to be able to absorb heavy shocks and repeatedly occurring tension, thus they have to be elastic and strong
- materials such as polypropylene are suitable for use as tow lines (floating materials)
- heavier materials such as polyamide and polyester are recommended by us to be used for mooring and anchoring lines



.....

- Dyneema[®]SK 78, Vectran
- ----- Dyneema[®]SK 78, Vectran with PES Cover Racing Edition
- Double Braided PES with heat set
- Double Braided PES
- Double Braided Nylon

We strive to deliver value to the sailing world.



LANEX a. s., Hlučínská 96/1, 747 23 Bolatice, Czech Republic Phone: +420 553 751 204, Fax: +420 553 654 125, E-mail: yachting@lanex.cz www.lanex.cz