



Recommended Line Diameters

Racing										
Sail area (sq. m)	10	20	30	40	50	60	70	80	90	100
Racer-XTR 02008	-	-	8	8	8	10	10	12	12	14
Racer Hybrid 02026	-	-	8	8	8	10	10	12	12	14
Racer Vision 02027	-	-	8	8	8	10	10	12	12	14
Racer 02001	-	6	8	10	10	12	12	14	14	16
Regatta 02000	5	6	8	10	10	12	12	14	14	16
Dynamic plus 02004	6	8	10	12	14	14	14	-	-	-
D-Pro 1505	4	5	6	8	8	9	9	10	12	14
Vectran®-Olympic 4000	6	8	8	10	12	-	-	-	-	-
DynaSoft 2055	5	6	8	-	-	-	-	-	-	-

Cruising										
Sail area (sq. m)	10	20	30	40	50	60	70	80	90	100
Racer 02001	-	6	8	10	10	12	12	14	14	16
Regatta 02000	5	6	8	10	10	12	12	14	14	16
Dynamic plus 02004	6	8	10	12	12	14	14	-	-	-
SuperSheet 1570	-	-	12	12	14	14	14	16	18	18
TopGrip 1540	6	8	10	12	14	14	14	-	-	-
Herkules Colour 00154/01550	6	8	10	12	14	14	14	16	16	18
Top-Cruising 00152	6	8	10	12	14	14	14	16	16	18
Top-Cruising-Colour 01528	6	8	10	12	14	14	14	-	-	-
Prestretch 00121/00122	6	8	10	12	-	-	-	-	-	-
Allround 00151	8	10	12	14	14	16	-	-	-	-
Seastar 00162	6	8	10	12	14	14	16	-	-	-
Seastar Colour 00172	6	8	10	12	14	14	16	18	18	-

For guy ropes, choose a heavier diameter



Note: Always choose the right stopper based on your line's diameter. The wrong stopper size can damage your line.

Recommended Mooring Lines



LIROS usage recommendations

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Our recommendations for LIROS items reflect our many years' experience racing and Cruising.

Mooring Lines											
	Boat Size (ft)	20-27	33	40	46	52-60	65-73	78-85	90-105	110-118	124-131
	Boat Size [m]	6-8	10	12	14	16-18	20-22	24-26	28-32	34-36	38-40
	Displacement [t]	<1	2	5	12	20	25	30	40	70	>80
		Ø mm	Ø mm	Ø mm	Ø mm	Ø mm	Ø mm	Ø mm	Ø mm	Ø mm	Ø mm
Polyester	Super Yacht Mooring 01300	-	-	-	-	-	-	-	24	24	28
	Porto 00133	10	12	14	16	18	20	22	24	-	-
	Squareline 01047/01049	10	12	14	16	18	20	22	24	26	28
	PES-3-strand 00111/01110	10	12	14	16	18	20	22	24	26	28
	Nordic 01173	12	14	16	18	18	20	22	24	26	28
	Moorex 12 00132	12	14	16	18	20	22	24	26	28	30
Polyamide	Latina 00110	10	12	14	16	18	20	22	22	24	26
	Handy Elastic 00136/00137	10	12	14	16	18	20	22	22	24	26

Always secure any watercraft with at least 4 mooring lines.
Length of lines: 2 lines @ 1.5 x boat-length and 2 lines @ 1.0 x boat-length (m)

We recommend visual inspection of every line, before and after use.
Lines should be removed from use if the load-bearing portion shows evidence of damage, even through normal wear and tear.

LIROS quality lines may be washed in mild detergent on the "gentle" or "delicate" cycle at 30°C, packed in a cotton bag.



Splicing instructions for LIROS ropes may be found at:
www.liros.com/en/service/downloads/spleissanleitungen.html

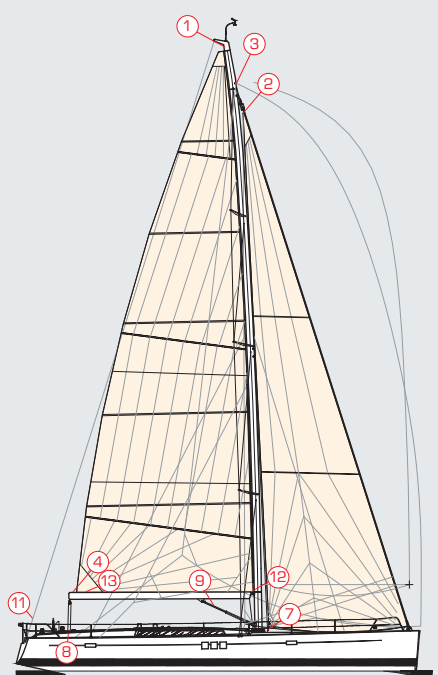
RECOMMENDED MOORING LINE DIAMETERS



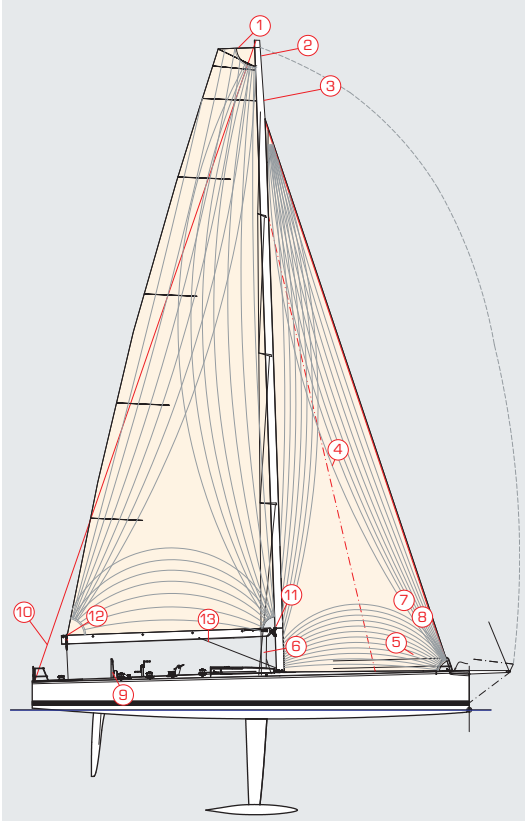
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LIROS usage recommendations



Cruising boat



Racing boat

Our recommendations for LIROS items reflect our many years' experience racing and cruising.

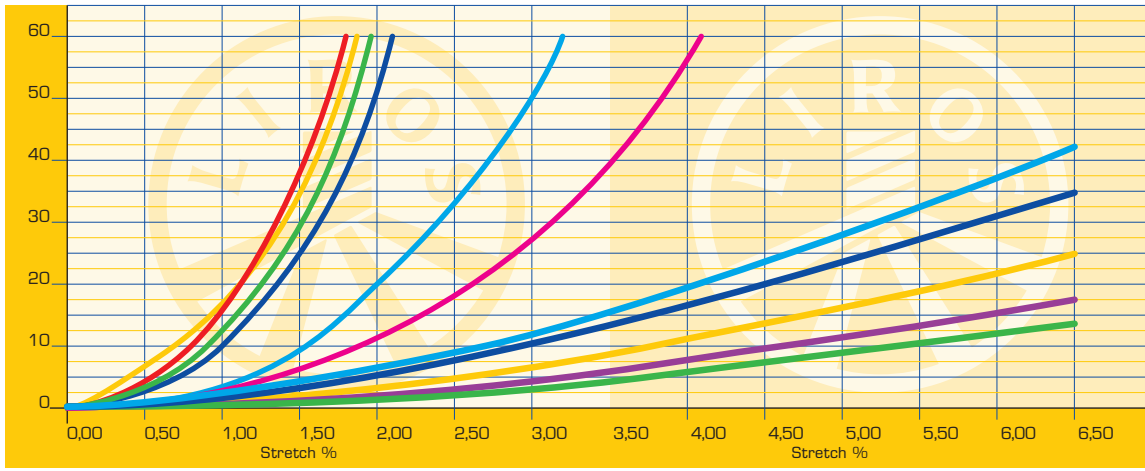
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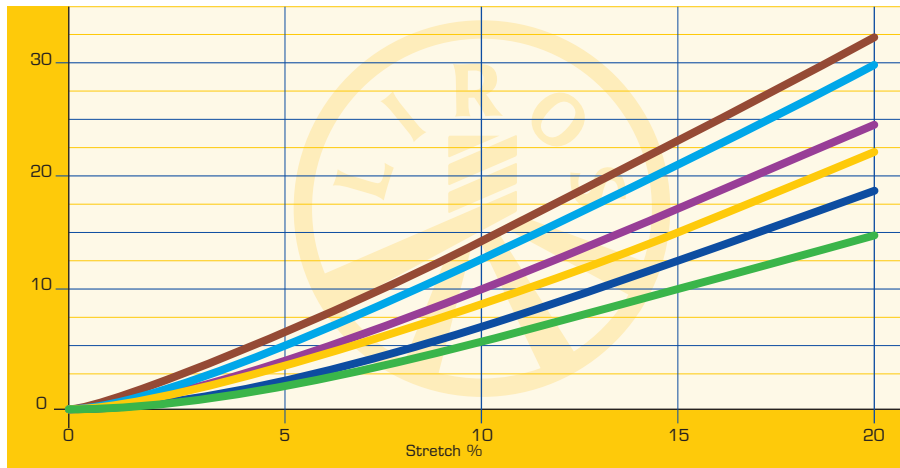
Performance

Cruising



- LIROS V-Force, Liros V-Plus
- LIROS D-Pro
- LIROS Racer Vision, LIROS Racer Hybrid
- LIROS Racer, Regatta 2000
- LIROS Dynamic Plus
- LIROS DynaSoft
- LIROS LIROS Herkules, Herkules Color; TopGrip
LIROS Top Cruising, LIROS Top Cruising Color
- LIROS Seastar
- LIROS Prestretch
- LIROS Allround, Standard
- LIROS Nautic

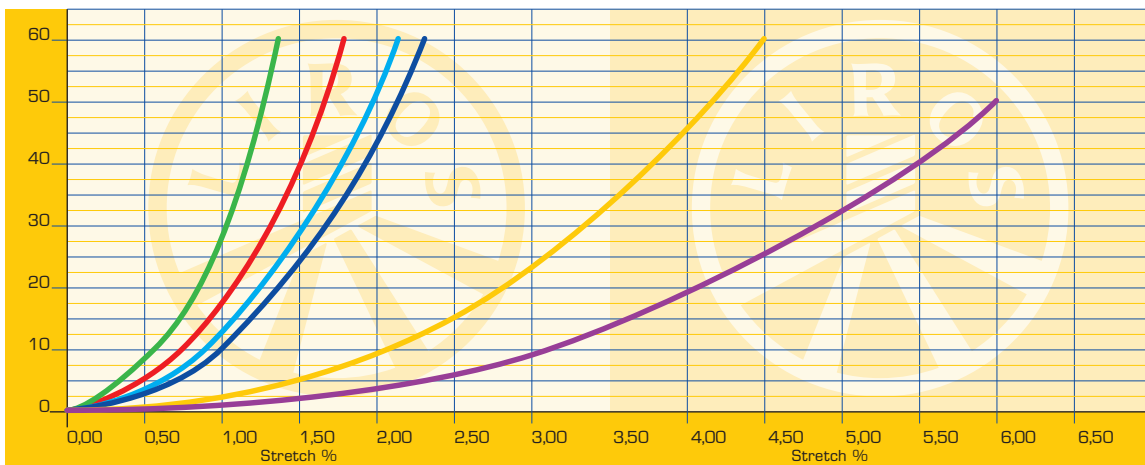
Mooring



- LIROS Squareline PP, LIROS Polyester Rope, LIROS Nautic
- LIROS Polyamidtauwerk
- LIROS Porto, LIROS Super Yacht DB
- LIROS Moorex 12
- LIROS-Squareline Polyester
- LIROS Handy-Elastic

Magic Dinghy Performance

Magic



- LIROS Magic XTR
- LIROS D-Pro
- LIROS Magic Pro, LIROS Magic Race
- LIROS Magic Edge
- LIROS Magic Speed, LIROS Spi, LIROS Magic Vision
- LIROS Magic Sheet








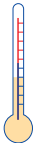
Comparing Summary of Synthetic fibres



PERFORMANCE

	Material							
	Polyamide (PA) 6 und 6.6	Polyester (PES)	High-tenacity Polypropylene multifilament (PP)	Polyethylene (PE)	High-tenacity Polyethylene (HMPE)	Aramid	LCP	PBO
Brand name	Perlon Nylon				Dyneema® Spectra®	Twaron® Kevlar® Technora®	Vectran®	Zylon®
Yarn strength								
cN/dtex	7 – 8	7 – 8.4	ca. 7	ca. 4.5	28 – 38	20 – 25	22 – 25	ca. 37
Specific gravity								
kg/dm³	1.14	1.38	0.91	0.96	0.96	1.44	1.41	1.52
Strength loss due to humidity								
%	5 – 10	0	0	0	0	0	0	0
Water absorption								
%	1 – 7	0.5 – 2	0	0	0	2 – 5	1	0.6
Knot tenacity								
%	60 – 65	55 – 60	55 - 65	50 – 60	35 – 50	30 – 40	30 – 35	35 – 55
Light resistance								
%	good	very good	only good when quipped	good	good	poor	poor	poor
Breaking stretch								
%	16 – 27	10 – 16	12 – 20	15 – 30	3,8	2 – 4	3,3	2,5
Abrasion resistance	very good	very good	fair	fair	good	adequate	good	poor

Reaction of synthetic ropes under different conditions

	Material						
	Polyamid (PA) 6 / 6.6	Polyester (PES)	Polypropylen (PP)	Polyethylen (PE), (HMPE)	Aramid	LCP	PBO
Brand	Perlon Nylon			Dyneema® Spectra®	Twaron® Technora® Kevlar®	Vectran®	Zylon®
 Washing temp. °C	50 – 60	50 – 60	30	30	80 – 90	60	50
Acids (50% concentr.), 25°C/100°C Rest % 	17 / 5 – 10	80 / 0	no reaction	no reaction	partially good resistance	very good resistance	good resistance
 Gasoline	no reaction	no reaction	no reaction	no reaction	no reaction	no reaction	no reaction
 Diesel and Oil	no reaction	no reaction	no reaction	no reaction	no reaction	no reaction	no reaction
 Solvents	formic acid & acetic acid at high temp.	phenols, cresols, zinc chloride	minimal reaction	minimal reaction	minimal reaction	minimal reaction	minimal reaction
 Alkali (Leaches)	resistant against weak solutions	resistant against solutions at 20°C; dissolves in solutions at 100 °C	resistant against weak solutions	resistant	partially good resistant	very good resistant	very good resistant
 Insulating Properties	very good; poor conductor	very good	excellent	excellent	excellent	excellent	excellent
Highest temp. Short load approx. °C	130	170	80	70	400	200	550
Range Exposure approx. °C	170	225	140	120	–	–	–
Melting point approx. °C 	215	260	170	150	chars at approx. 500°C	330	chars at approx. 650°C



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