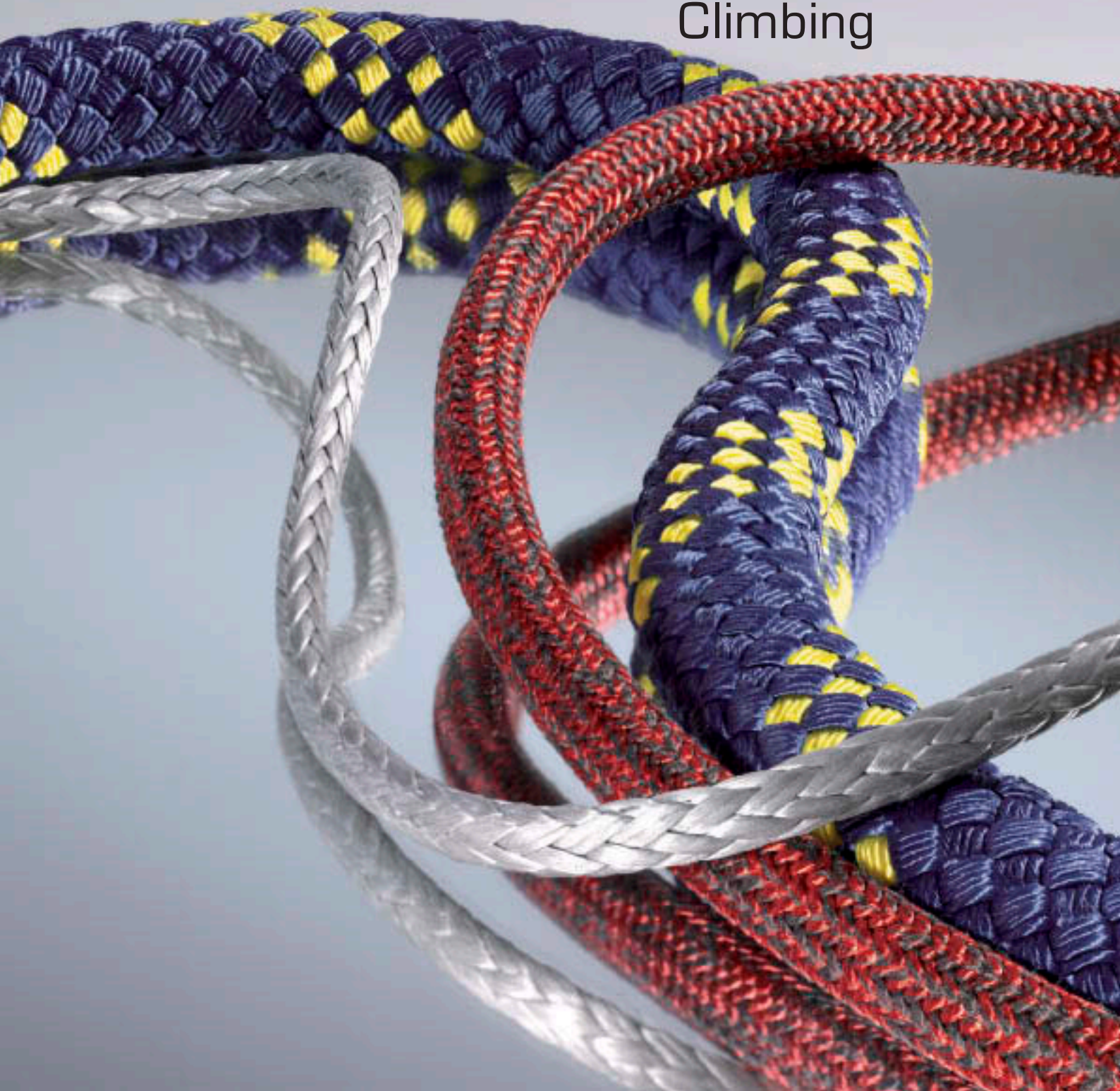




Unlimited Rope Solutions

Yacht Rope
Offroad
Climbing





LIROS Unlimited Rope Solutions

LIROS is now recognized as a world leader in the manufacture of Hi-Tec yachting ropes, kitesurf cords, paragliding lines and a wide range of industrial cordage. LIROS continue to manufacture in Germany in order that we can control every part of the production from start to finish.

All of the LIROS production is carefully monitored by experienced technicians during every stage of manufacture to ensure complete satisfaction in the most demanding applications. The unique and new process to 'LIROS LCS' (LIROS Coating System) has enabled us to improve the performance of the latest materials (PBO, Vectran® & Dyneema®) by thoroughly protecting them against the worst effects of abrasion as well as UV degradation.

We welcome all enquiries for our products as well as any individual requirements for custom projects. Do not hesitate to contact us.

Sven Rosenberger Karl Friedrich Rosenberger

Our company is certified and approved according to DIN EN ISO 9001 and DIN EN ISO 14001.
Production 100% Made in Germany.

LIROS supports junior Sailing.



INHALT

Yacht Rope Recommendations	5	Barrier Rope	38
Performance	6	Shock Cord /Tie-down Attachment	39
Cruising	10	Offroad	41
XTReme	16	Offroad/Technical Accessories	42
Dinghy	22	Climbing	43
Custom Performance	26	Recycling	45
Mooring	28	Recommended Yachting Line Diameters	46
Anchoring	37	Recommended Mooring Line Diameters	47

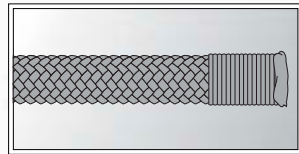
LIROS is there for you!

Quality Made in Germany

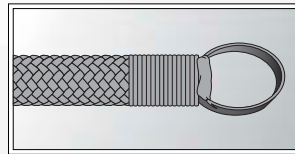
Our LIROS customer service team has solutions for even the most demanding customers - retail, wholesale, or direct-to-industry. We'll provide all the dimensional sizing, working and breaking load information you need to choose the right LIROS product for the job.



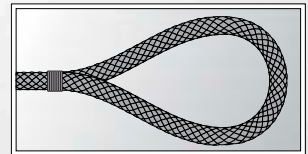
Unlimited Rope Solutions



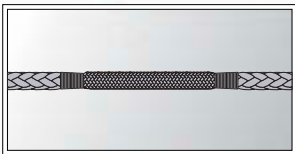
Whipping



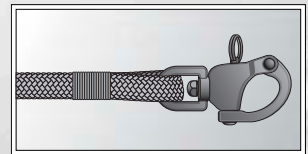
Pilot eye



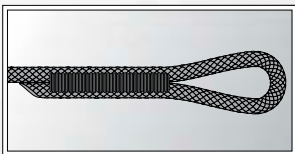
Eye splice



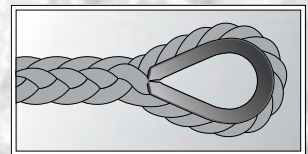
Protective cover



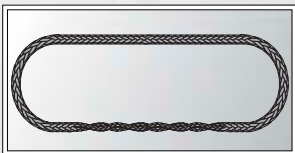
Shackle



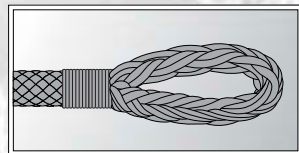
Sewn eye splice



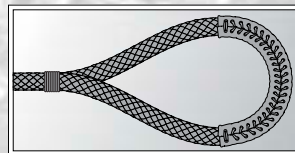
Thimble



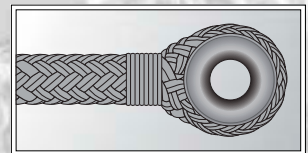
Continuous splice



Stripped eye splice



Leather



Friction Ring

In addition to common splicing and whipping, our experienced ropemakers specialise in fashioning and finishing of high-tech sheets, mooring lines and halyards. We can create the perfect individual rope for your specifications.

To learn more about the qualifications of our skilled ropemakers, visit our website at:
<http://www.liros.com/en/service-navigation/career.html>

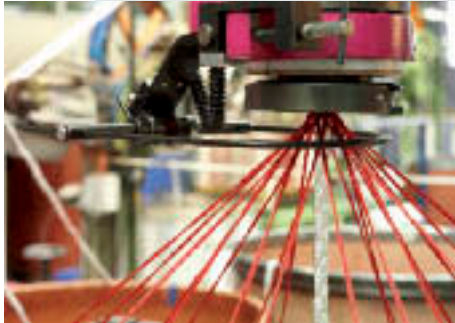
LIROS CUSTOMER SERVICE TEAM

Available daily 7:30am to 5:00pm

+49 (0) 92 93 8002-0 or info@liros.com



Production
Rope-finishing
expertise
Made in Germany



Latest technology
State-of-the-art
technology is essential
for producing premium
products



Laboratory
Technical development
of unique rope solutions



Testing
Continuous quality control



Warehousing
Computer-based
inventory systems
allow for fastest
deliveries



Splicing Department
Customized solutions
for all kind of rope
applications.

LIROS HSS

||||||| Heat Stretch System

LIROS HSS pre-stretch system uses exact heat treatment to guarantee the highest accuracy in any application.

LIROS LCS

■■■■■ LIROS Coating System

LIROS LCS is the best protection against wear-and-tear and UV effects for technical ropes. LIROS LCS increases UV- and wear-resistance by up to 50%

LIROS DRS

●●●●● Dry Rope System

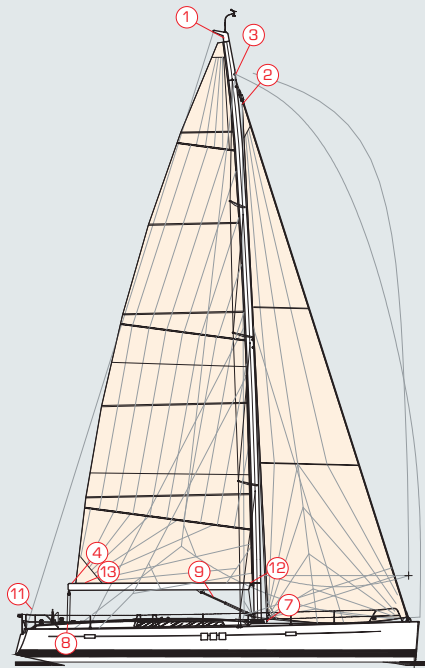
LIROS DRS is the durable water-repellent coating for technical ropes.

LIROS line optimization systems

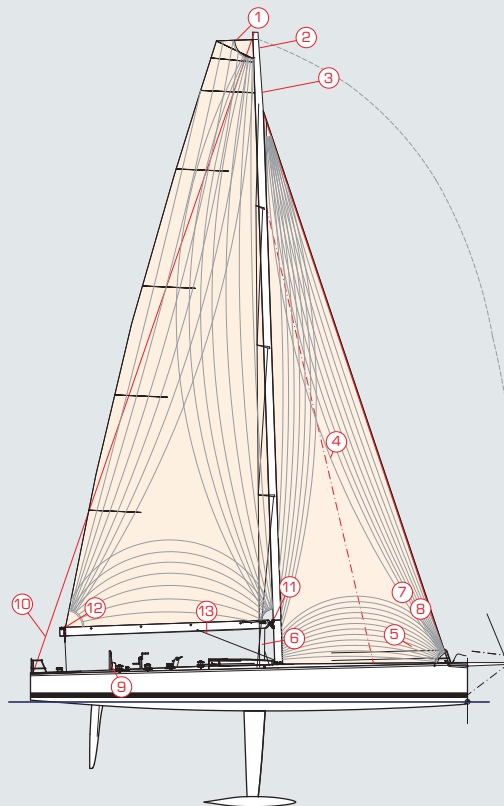
CRUISING

	page
1. Main halyard	
LIROS Regatta 2000	8
LIROS Dynamic plus	8
LIROS Herkules	10
LIROS Taper Pro	27
2. Genoa halyard	
LIROS Regatta 2000	8
LIROS Dynamic plus	8
3. Spinnaker halyard	
LIROS Dynamic plus	8
LIROS Herkules	10
LIROS Magic Pro	22
4. Boom topping lift	
LIROS Herkules	10
LIROS Top Cruising	12
LIROS Magic Vision	24
5. Pole topping lift (not shown)	
LIROS Herkules	10
LIROS Top Cruising	12
Pole downhaul (not shown)	
LIROS Dynamic Plus	8
LIROS Herkules	10
LIROS Top Cruising	12
7. Genoa sheet	
LIROS Herkules	10
LIROS TopGrip	11
LIROS Top Cruising	12
LIROS Seastar Color	14
LIROS Magic Vision	24
8. Main sheet	
LIROS TopGrip	11
LIROS Top Cruising	12
LIROS Seastar	14
LIROS Magic Sheet	24
LIROS Magic Vision	24
9. Boomvang	
LIROS Herkules	10
LIROS Top Cruising	12
LIROS Magic Sheet	24
10. Spinnaker sheet (not shown)	
LIROS TopGrip	11
LIROS Top Cruising Color	12
LIROS Allround	13
LIROS Seastar Color	14
LIROS Magic Sheet	24
LIROS Magic Vision	24
11. Backstay/ running backstay	
LIROS Dynamic plus	8
LIROS Herkules	10
LIROS Magic Sheet	24
12. Cunningham	
LIROS Top Cruising Color	12
LIROS Top Cruising	12
LIROS Magic Vision	24
13. Outhaul	
LIROS Herkules	10
LIROS Top Cruising	12

LIROS usage recommendations



Cruising boat



Racing boat

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

REGATTA

	page
1. Main halyard	
LIROS Racer-XTR	6
LIROS Racer Pro	6
LIROS Racer	7
LIROS Regatta 2000	8
LIROS Control-XTR	18
2. Genoa halyard	
LIROS Racer-XTR	6
LIROS Racer Pro	6
LIROS Racer	7
LIROS V-Force	7
LIROS Regatta 2000	8
3. Spinnaker halyard	
LIROS Racer-XTR	6
LIROS Racer	7
LIROS Dynamic plus	8
4. Pole topping lift	
LIROS Racer-XTR	6
LIROS Racer	7
LIROS Dynamic plus	8
LIROS Regatta 2000	8
5. Pole downhaul	
LIROS Racer-XTR	6
LIROS Racer	7
6. Genoa sheet	
LIROS Racer-XTR	6
LIROS Racer	7
LIROS Regatta 2000	8
7. Spinnaker sheet	
LIROS Racer	7
LIROS Dynamic plus	8
LIROS Control-XTR	18
LIROS Magic-XTR	22
LIROS Dynasoft	23
8. Guy	
LIROS Racer Pro	6
LIROS V-Force	7
9. Main sheet	
LIROS Racer	7
LIROS Dynamic plus	8
LIROS Magic Pro	22
LIROS Dynasoft	23
10. Backstay/ running backstay	
LIROS V-Force	7
LIROS Regatta 2000	8
LIROS D-Pro-XTR	19
LIROS D-Pro NC Static	19
11. Cunningham	
LIROS Racer	7
LIROS Regatta 2000	8
LIROS D-Pro	9
12. Outhaul	
LIROS V-Force	7
LIROS Regatta 2000	8
LIROS D-Pro	9
LIROS High Trimm	46
13. Boomvang	
LIROS Racer	7
LIROS Dynamic plus	8
LIROS D-Pro	9
LIROS V-Plus-XTR	20
LIROS Magic Pro	22
14. Boom topping lift (not shown)	
LIROS Dynamic plus	8





LIROS Racer-XTR

02008

LIROS Racer-XTR offers an exceptional combination of heat-resistant hybrid fibres and high-tenacity Polyester. The extremely low-stretch, colour-treated Dyneema® SK78 core guarantees the best in breaking load and is perfect for cover stripping.

- Working stretch < 1%
- Lightweight
- Perfect for extreme performance with stripped cover
- Excellent abrasion resistance, even at high temperatures
- Hybrid fibre prevents cover melting
- Ideal interconnected cover-core
- Multipurpose sheet and halyard rope
- Very low stretch
- LIROS Heat Stretch System

Colours

	419 Beige-Orange
	420 Beige-White
	421 Beige-Yellow
	422 Beige-Burgundy
	263 Beige-Steel blue



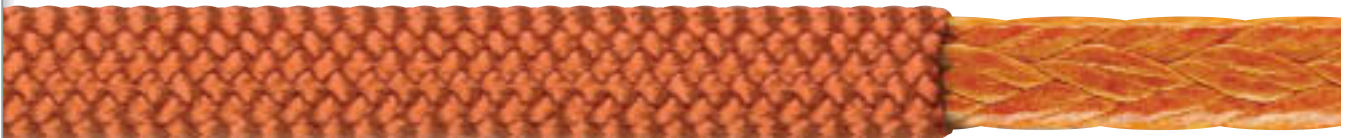
Vectran™

LIROS HSS
Heat Stretch System

LIROS LCS
LIROS Coating System

Ø mm	Breaking strength kg	Weight kg/100 m	Length of spool m
8	4700	5.3	200
10	6900	6.5	200
12	9900	9.3	200
14	13000	12.1	150
16	15200	15.6	100
18	18500	18.0	100
20	21700	22.2	100
22	24600	27.0	100
24	28000	32.0	100

Cover	50% Hybrid fibres 50% Polyester 32-plaited
Construction	32-plaited
Core	Coloured Dyneema® SK78 with XTR-Grip-Coating 12-plaited



LIROS Racer Pro

02005

The high-tech line adopted by America's Cup and Vendée Globe racers. LIROS Heat-Stretch-System provides maximum breaking loads with the lowest stretch. Specially coated, colour-matched core for top holding strength on winches and in stoppers. Ideal for cover stripping.

- Working stretch < 1%
- Maximum breaking loads with lowest weight
- For sheets and halyards
- Highly suitable for winch usage
- LIROS Heat Stretch System
- Spliceable
- More advanced Dyneema® SK78 for lowest stretch

Colours

	032 Burgundy		211 Steel blue
	150 Orange		529 Silver

Ø mm	Breaking strength kg	Weight kg/100 m	Length of spool m
8	4700	5.3	200
10	6900	7.5	200
12	9900	9.6	200
14	13000	12.7	150
16	15200	16.1	100

Cover	Polyester high-twisted 32-plaited
Construction	8 mm 24-plaited 10 mm and up 32-plaited
Core	Coloured Dyneema® SK78 with XTR-Grip-Coating



LIROS HSS
Heat Stretch System

LIROS LCS
LIROS Coating System

NEW



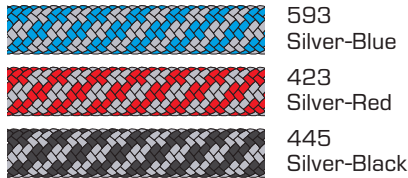
LIROS V-Force

04000

New advanced technology line with high strength Vectran® fibre. Super low stretch, comparable to wire, extremely durable and abrasion resistant. Excellent holding strength in stoppers and cleats with specialised 32-plait cover, ideal for halyards and backstays.

- Working stretch < 0.8%
- Very low initial stretch
- Ideal interconnected cover-core
- Long-lasting, abrasion resistant
- Best stopper durability
- No creep

Colours

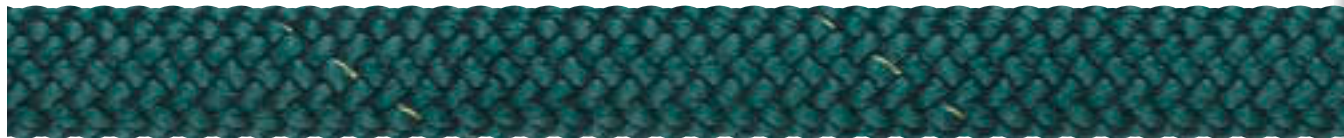


Ø mm	Breaking strength kg	Weight kg/100 m	Length of spool m
3	530	0.7	250
4	780	1.3	250
5	930	1.7	250
6	1500	2.4	200
8	2700	5.6	200
10	3700	8.0	200
12	5200	10.5	200

Cover Polyester
Construction 3–5 mm 16-plaited
 6–8 mm 24-plaited
 10 mm and up 32-plaited
Core Vectran® with additional braiding above 8 mm

Vectran™
LIROS LCS
 LIROS Coating System

Performance



LIROS Racer

02001

Proven, durable Dyneema® line with high breaking load and low stretch featuring a specially-engineered 32-plaited cover and coated Dyneema® fibre core. For halyards and sheets. Very suitable for winches.

- working stretch < 1.5%
- high breaking load, easy handling and nonkinking
- for halyards and sheets
- very good winch suitability
- LIROS-Heat-Stretch-System



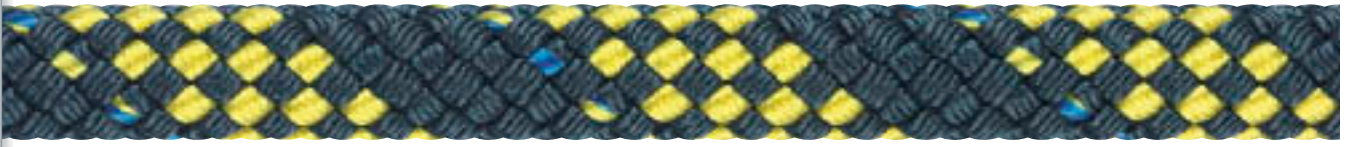
LIROS HSS
 LIROS Heat Stretch System
LIROS LCS
 LIROS Coating System

Colours



Ø mm	Breaking strength kg	Weight kg/100 m	Length of spool m
6	2500	2.7	200
8	3800	5.1	200
10	5000	7.1	200
12	7200	8.5	200
14	9500	11.5	150
16	12600	14.4	100
18	15300	17.9	100
20	18500	23.7	100
22	20000	28.5	100

Cover Polyester high-twisted
Construction 6–8 mm 24-plaited
 10 mm and up 32-plaited
Core Coated Dyneema® SK78 with additional cover plait



LIROS Regatta 2000

02000

Very low-stretch line for halyards, spinnaker and genoa sheets. An extremely light and durable high-performance rope with abrasion resistant braided cover and inner cover, and specialised core of coated Dyneema® SK78.

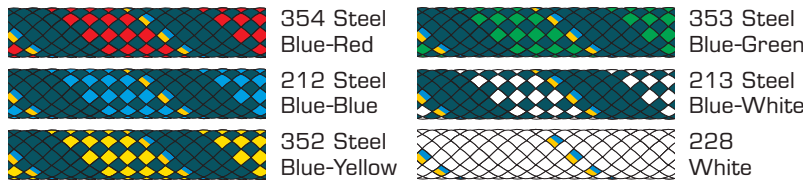
- working stretch < 1.5%
- extreme break resistant, light and durable
- 30% more abrasion resistant than conventional Polyester
- LIROS-Heat-Stretch-System
- Also available in full colour (see Herkules Colour p.11)



LIROS HSS
Heat Stretch System

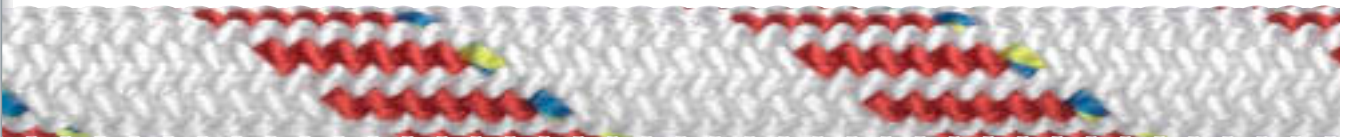
LIROS LCS
LIROS Coating System

Colours (Steel Blue with flecks)



- Cover** Special Polyester high-twisted
- Construction** 2–3 mm 16-plaited
4 mm and up 1:1 plaited
- Core** Coated Dyneema® SK78,
8 mm and up with additional cover plait

Ø mm	Breaking strength kg	Weight kg/100 m	Length of spool m
2	270	0.3	250
2.5	390	0.5	250
3	550	0.7	250
4	800	1.1	250
5	1100	1.5	250
6	2500	2.5	200
8	3800	4.2	200
10	5000	6.1	200
12	7200	8.8	200
14	9500	13.2	150
16	12600	15.0	100
18	15300	18.0	100
20	18500	23.6	100
22	20000	28.2	100
24	23000	32.1	100



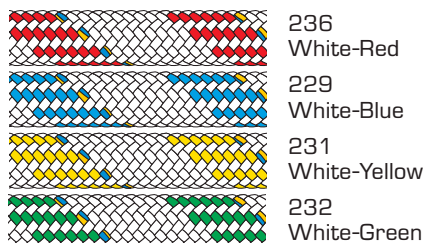
LIROS Dynamic plus

02004

Easy-handling, abrasion resistant line with low stretch, premium Polyester cover and Dyneema® SK78 core. Suitable for use as a high-end sheet, or low-stretch halyard by advanced Cruising sailors.

- working stretch < 2%
- low-stretch, abrasion resistant halyard for competitive distance sailors
- kink-free, low-stretch sheets for cruiser-racers
- easy to splice
- LIROS-Heat-Stretch-System
- Also available in full colour (see Herkules Colour p.11)

Colours



LIROS HSS
Heat Stretch System

LIROS LCS
LIROS Coating System

Ø mm	Breaking strength kg	Weight kg/100 m	Length of spool m
3	500	0.7	250
4	710	1.1	250
5	870	1.7	250
6	1200	2.1	200
8	2300	3.8	200
10	3100	6.9	200
12	4800	8.9	200
14	6500	11.9	150

- Cover** Polyester high-twisted
- Construction** 3–8 mm 24-plaited
10–14 mm 32-plaited
- Core** Coated Dyneema® SK78, 6 mm and up with additional cover plait



LIROS Super Classic

01570

Super sheet conceived especially for classic yachts and Cruising boats. LIROS developed this especially low-stretch and easy-handling sheet with excellent winch suitability and superior handling in mind, rather than overall breaking strength.

- working stretch < 3%
- lightweight and stretch-resistant
- extremely pliable and compact
- ideal for winches
- highest abrasion resistance
- very durable



LIROS HSS
Heat Stretch System

LIROS LCS
LIROS Coating System

Ø mm	Breaking strength kg	Length of spool m
12	3500	200
14	4500	150
16	5000	100
18	6300	100
20	7000	100

Cover

Polyester high-twisted

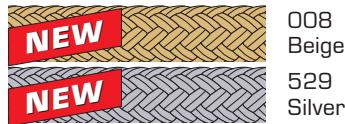
Construction

24-plaited

Core

Dyneema®/Polypropylene braid

Colour



LIROS D-Pro

01505

LIROS Heat-Stretch-System guarantees the optimal breaking load and stretch characteristics of this line. Excellent chafing resistance, light weight, and easy spliceability make this line irreplaceable in all sorts of applications on racing boats of any size - even in stoppers when used with the LIROS Protect-XTR cover. Perfect as a replacement for steel cabling in technical applications.

- working stretch < 1%
- very high breaking load with small diameter and very low weight
- first choice for any application under extreme load
- very spliceable, can also be employed with separate cover
- highly UV stable and chafe resistant
- LIROS Heat-Stretch-System

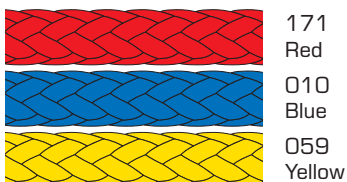


LIROS HSS
Heat Stretch System

LIROS LCS
LIROS Coating System

Ø mm	Breaking strength kg	Weight kg/100 m	Length of spool m
1	195	0.09	100
1.5	230	0.13	100
2	410	0.18	100
2.5	580	0.35	100
3	950	0.46	100
4	1300	0.70	100
5	2600	1.30	100
6	4300	2.30	100
8	5300	3.50	100
9	7500	4.90	100
10	9000	6.00	100
12	11900	7.20	100
14	14500	9.50	100
16	19200	13.10	100

Colours

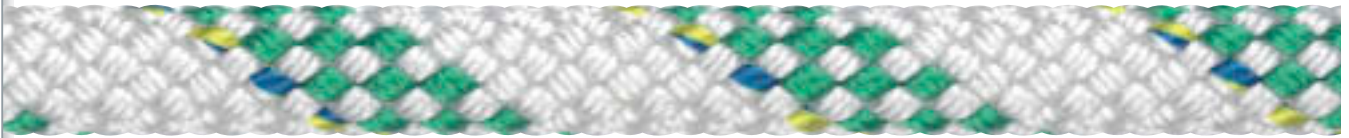


Material

Coated Dyneema® SK78

Construction

12-plaited heat-set and coated



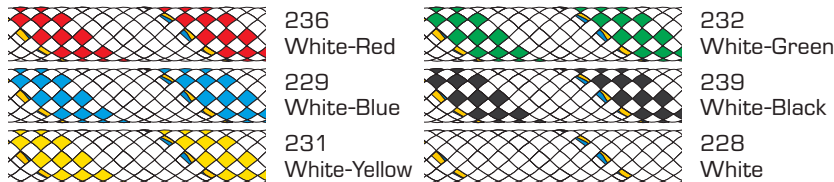
LIROS Herkules

00154

Very resistant, extremely versatile premium quality rope. Specially designed for sheets and control lines on yachts of every size. Very durable and low stretch, easily spliced to wire – heat set. Excellent grip on winch drums, exceptionally abrasion resistant cover. First choice for Cruising yachts with extremely high standards.

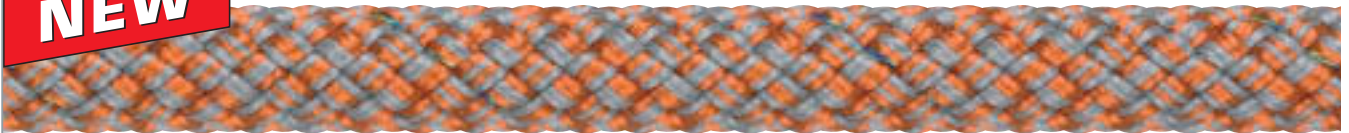
- working stretch < 5%
- very high quality line for the demanding Cruising yacht
- very broad range of uses: sheet, halyard or control line
- easy to splice and absolutely non-kinking
- extremely durable, even under hard winching conditions

Colours



Cover high-strength Polyester
Construction 1:1 plaited
Core high-tenacity braided Polyester

Ø mm	Breaking strength kg	Length of spool m
4	400	250
5	650	250
6	800	200
8	1600	200
10	2500	200
12	3500	200
14	4500	150
16	5000	100
18	6300	100
20	7000	100
22	8000	100
24	9000	100



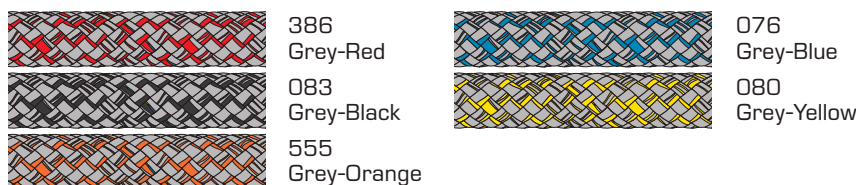
LIROS Herkules Vision

01552

Fresh colours combined with our premium grey Polyester. Very resistant, extremely versatile, top quality line. Specially designed for sheets and control lines on yachts of every size. Very durable and low stretch – heat set. Excellent grip on winch drums, exceptionally abrasion resistant cover. First choice for Cruising yachts with extremely high standards.

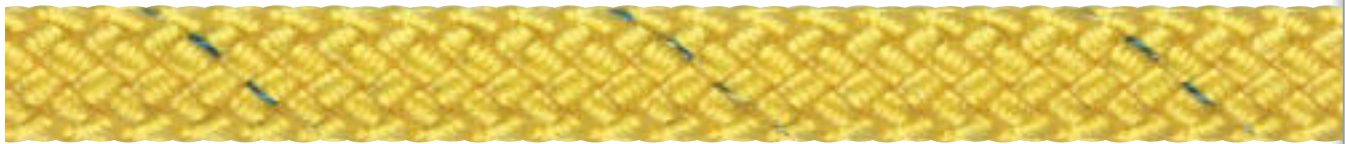
- working stretch < 5%
- very high quality line for the demanding Cruising yacht
- very broad range of uses: sheet, halyard or control line
- easy to splice and absolutely non-kinking
- extremely durable, even under hard winching conditions

Colours



Ø mm	Breaking strength kg	Length of spool m
6	800	200
8	1600	200
10	2500	200
12	3500	200
14	4500	150

Cover high-tenacity, spun-dyed Polyester
Construction 1:1 plaited
Core high-tenacity braided Polyester



LIROS Herkules Colour

01550

Very resistant, extremely versatile premium quality rope. Specially designed for sheets and control lines on yachts of every size. Very durable and low stretch, easily spliced to wire – heat set. Excellent grip on winch drums, exceptionally abrasion resistant cover. First choice for Cruising yachts with extremely high standards.

- working stretch < 5%
- the full-colour alternative to LIROS Herkules with high quality spun-dyed Polyester cover

Colours



Ø mm	Breaking strength kg	Length of spool m
4	400	250
5	650	250
6	800	200
8	1600	200
10	2500	200
12	3500	200
14	4500	150
16	5000	100
18	6300	100
20	7000	100
22	8000	100
24	9000	100

Cover high-tenacity, spun-dyed Polyester
Construction 1:1 plaited
Core high-tenacity braided Polyester



LIROS TopGrip

01540

The new generation of high quality Cruising sheets. LIROS TopGrip has been specially developed for use on all Cruising yachts up to 50 feet. Maximum grip on winch drums delivers great control and easy handling in all situations.

- working stretch < 5 %
- perfect handling
- smooth, comfortable surface
- maximum grip
- best abrasion resistance
- very durable construction
- modern design

Colours



Ø mm	Breaking strength kg	Length of spool m
6	800	200
8	1350	200
10	2200	200
12	3000	200
14	4200	150

Cover Polyester grip fibre and high-tenacity, spun-dyed Polyester
Construction 1:1 plaited
Core high-tenacity braided Polyester



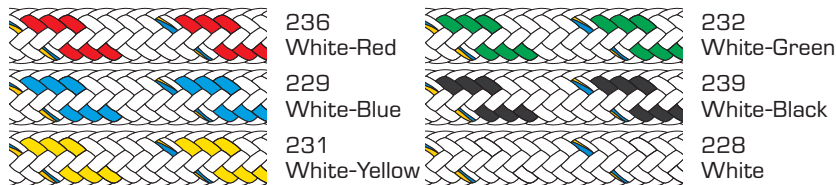
LIROS Top-Cruising

00152

Very durable, kink-free, long-lasting sheet made of 100% high-tenacity Polyester. For use as mainsail, jib, and spinnaker sheets. Ideal for blue water sailing and long distances. Easy to splice – heat set.

- working stretch < 5%
- the classic sheet for sailing yachts of any size
- non-kinking, easy-handling line with abrasion resistant cover and high breaking load
- easy-to-splice multi-purpose line

Colours



Cover high-tenacity Polyester
Construction Ø 4 – 10 mm 16-plaited
 12 mm and up 20-plaited
Core high-tenacity braided Polyester

Ø mm	Breaking strength kg	Length of spool m
4	450	250
5	780	250
6	1100	200
7	1300	200
8	1650	200
10	2700	200
12	3200	200
14	3800	150
16	5000	100
18	6500	100
20	7300	100



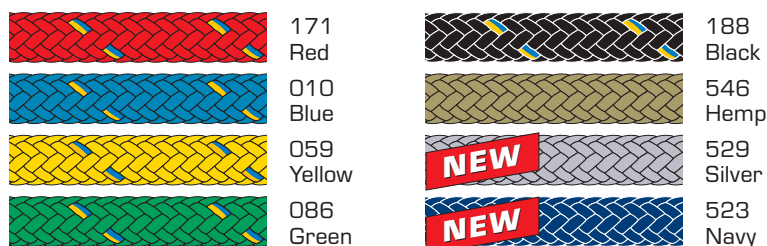
LIROS Top-Cruising-Colour

01528

Very durable, kink-free, long-lasting sheet made of 100% high-tenacity Polyester. For use as mainsail, headsail and spinnaker sheets. Ideal for blue water sailing, long distances. Easy to splice – heat set.

- working stretch < 5%
- the full-colour alternative to LIROS Top-Cruising with high quality spun-dyed Polyester cover

Colours



Ø mm	Breaking strength kg	Length of spool m
6	1100	200
8	1650	200
10	2700	200
12	3200	200
14	3800	150

Cover spun-dyed Polyester
Construction Ø 6 – 10 mm 16-plaited
 Ø 12 mm and up 20-plaited
Core high-tenacity braided Polyester



LIROS Prestretch

00121/00122

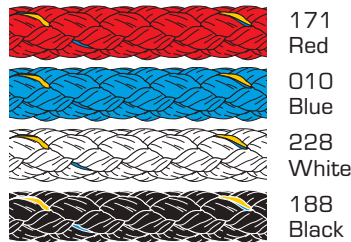
Pre-stretched for low elongation. Use for wire halyard leaders, control lines on dinghies and small boats - heat set.

- *working stretch < 4%*
- *low stretch, inexpensive Polyester halyard for smaller boats and traditional Cruising yachts*
- *3-strand, very easy to splice (Ref. 00121)*

Colours 00121



Colours 00122



Construction

00121 twisted 3-strand, heat set Polyester

00122 8-plaited heat set Polyester

	Ø mm	Breaking strength kg	Length of spool m
00121	4	420	250
	5	600	250
	6	820	200
	8	1400	200
	10	2300	200
00122	12	2800	200
	14	4250	150
	4	420	250
	5	580	250
	6	800	200
	8	1500	200
	10	2300	200



LIROS Allround

00151

Economical, all-purpose sheet for Cruising boats. Low water absorption, easy to handle, abrasion resistant - heat set.

- *working stretch < 8%*
- *handy, economical, winch-ready sheet*
- *cover construction with good abrasion resistance*
- *minimal water absorption, well-suited for yachts up to 40 feet*

Colours



Ø mm	Breaking strength kg	Length of spool m
6	800	200
8	1400	200
10	2200	200
12	2600	200
14	3300	150
16	3900	100

Cover high-tenacity Polyester

Construction Ø 6 – 12 mm 16-plaited
14 mm and up 20-plaited

Core high-tenacity braided Polypropylene multifilament



LIROS Seastar

00162

High quality, Polyester sheet for Cruising yachts, with exceptionally soft, easy to grip cover - heat set. Classic design, white with LIROS blue and gold flecks.

- working stretch < 6%
- high quality spun fibres with soft, pliable braiding
- very good sheet for Cruising yachts up to 45 feet

Colour



228
White

- Cover** Polyester yarn matt
- Construction** 5 mm 8-plaited
6 – 12 mm 16-plaited
14 mm and up 24-plaited
- Core** high-tenacity braided Polyester

Ø mm	Breaking strength kg	Length of spool m
5	300	250
6	520	200
8	1000	200
10	1900	200
12	2400	200
14	2900	150
16	3500	100



LIROS Seastar Colour

00172

Easy-to-handle line in six different colours. For genoa and spinnaker sheets, outhauls, downhauls, and other control lines - heat set.

- working stretch < 6%
- soft, easy-to-handle, braided line
- salt water- and abrasion-resistant colours
- easily distinguishable colours help differentiate lines on deck
- also available in Hemp colour (see page 69)

Colours



171
Red



086
Green



010
Blue



188
Black



059
Yellow



130
Navy

Ref. 00173 (see page 69)



008
Beige

Ø mm	Breaking strength kg	Length of spool m
5	300	250
6	520	200
8	1000	200
10	1900	200
12	2400	200
14	2900	150
16	3500	100
18	4500	100

- Cover** coloured Polyester yarn matt
- Construction** 5 mm 8-plaited
6 – 12 mm 16-plaited
14 mm and up 24-plaited
- Core** high-tenacity braided Polyester



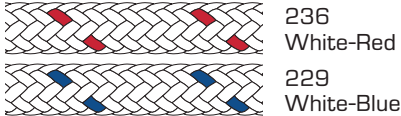
LIROS Standard

01082

Soft, economical sheet made of easy to grip spun Polyester - heat set.

- working stretch < 8%
- soft and easy to grip
- all-purpose sheet

Colours



Ø mm	Breaking strength kg	Length of spool m
6	500	200
8	1000	200
10	1600	200
12	2500	200
14	3000	150

- Cover** matt Polyester yarn
- Construction** 6 – 12 mm 16-plaited
14 mm and up 20-plaited
- Core** high-tenacity braided Polypropylene multifilament



1.5–5 mm without flecks

LIROS Nautic

01072

Soft, very light, and easy-to-handle spsheet for dinghies or small keelboats. Can also be used as water-ski rope or towline. Spun-dyed, multi-purpose floating line. Round-woven, UV-stabilised, durable Polypropylene multifilament.

1.5–5 mm without flecks
6–14 mm with flecks in blue/gold.

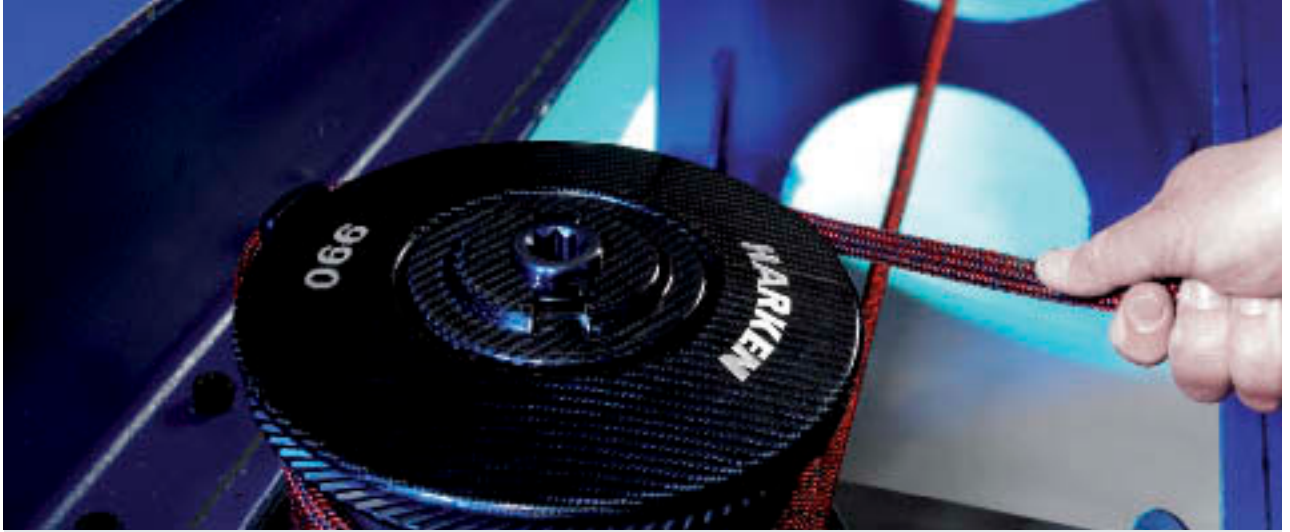
- working stretch < 12%
- very lightweight
- easy to handle
- floating
- UV-stabilised

Colours



Ø mm	Breaking strength kg	Length of spool m
1.5	38	500 (X-Spool)
2.0	70	500 (X-Spool)
3.0	140	500 (X-Spool)
4.0	280	500 (X-Spool)
5.0	390	250
6.0	550	200
8.0	900	200
10.0	1230	200
12.0	1700	200
14.0	2000	150
16.0	3700	100

- Material** Polypropylene multifilament
- Construction** 8-plaited

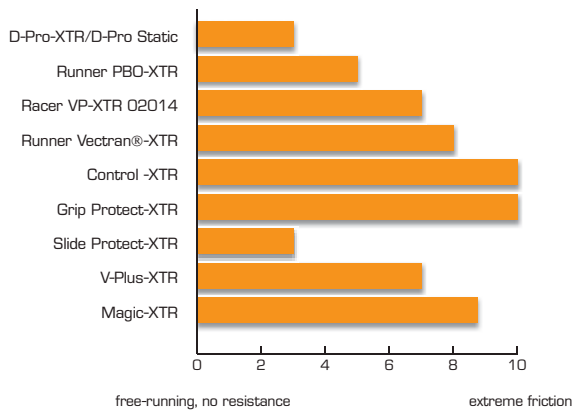


XTREME - New LIROS Technology

Optimized construction with the best in core-cover coordination for grip, abrasion resistance, stretch, and breaking load. Improved braiding with ideal core-cover interaction for optimal grip, high abrasion resistance, minimal stretch, as well as extreme breaking loads.

1. Grip Factor

LIROS has developed a premium range of yachting ropes which highlight a broad set of winch-hold and stopper-grip characteristics. Extensive performance testing in the LIROS labs and feedback from the world's top sailors have yielded real-world results that professional sailors can rely on in their choice of lines. The LIROS Grip Factor provides one of the most important selection criteria for professional sailors and riggers to help select the perfect line for the grip conditions in question. Other critical decision factors such as breaking load and working stretch guarantee top performance out on the water. Grip Factor is expected to improve during use.



2. Abrasion Resistance

The entire XTR line offers exceptional abrasion resistance. Even under extreme conditions, such as quick bear-away under heavy load, LIROS Runner PBO-XTR, LIROS Runner Vectran-XTR and LIROS Control-XTR provide exceptional durability. LIROS Runner Vectran-XTR prevents cover degradation below 300°C and LIROS-Runner PBO-XTR below 500°C.

3. Weight

Weight must be considered when selecting a family of lines. LIROS XTREME offers the best in abrasion resistance and breaking loads with the least weight, through the LIROS Coating System (LCS) and through the LIROS Heat Stretch System (HSS) core treatment, in addition to specially twisted/laminated outer cover.

LCS also reduces water absorbency by up to 33%.

4. Stretch

Construction and core material determine the fundamental stretch properties of a line. LIROS XTREME is optimised for low stretch and elasticity. LIROS XTREME transfers the entire force of the wind, without absorbing or damping.

5. Breaking Load

More and more the choice of lines today depends on these factors: grip, abrasion resistance, weight and stretch. Our stated breaking loads refer to splicings done at the LIROS factory. Professionally spliced lines should lose no more than 10% of their strength.

LIROS Runner PBO-XTR

05008

LIROS Runner PBO-XTR is the line with ultimate cover for extreme abrasion resistance and high temperature conditions.

- grip factor 5
- XTReMe abrasion resistance
- XTReMe heat resistance, up to 650°C
- Melt resistant cover
- Excellent power transference through LIROS Grip Coating
- XTReMe low stretch

Cover

100% Zylon®

Construction

32-plaited

Core

100% Dyneema® SK99

12-plaited

Colour


122 Copper

mm	Weight g/m	Weight Cover	Weight Core	Stretch %	Breaking strength kg
8	52	29	23	< 1.0	6250
10	74	42	32	< 1.0	8000
12	87	40	47	< 1.0	11200
14	141	70	71	< 1.0	14100

ZYLON


LIROS HSS
Heat Stretch System
LIROS LCS
LIROS Coating System


LIROS Runner Vectran®-XTR

04008

LIROS Runner Vectran®-XTR is the line with ultimate cover for minimal abrasion and high temperature conditions

- grip factor 8
- XTReMe abrasion resistance at high temperatures up to 300°C
- melt resistant cover
- superior cover-core power transference
- lowest stretch, top reliability
- extreme grip applications

Cover

100% Vectran®

Construction

32-plaited

Core

100% Dyneema® SK99

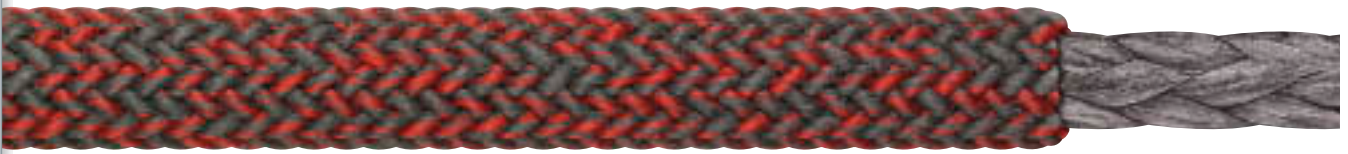
12-plaited

Colour


008 Beige

mm	Weight g/m	Weight Cover	Weight Core	Stretch %	Breaking strength kg
6	31	16	15	< 1.0	2800
8	53	29	24	< 1.0	6250
10	61	28	33	< 1.0	8000
12	89	42	47	< 1.0	11200
14	144	71	73	< 1.0	14100
16	199	102	97	< 1.0	17500


LIROS HSS
Heat Stretch System
LIROS LCS
LIROS Coating System
Vectran™



LIROS Control-XTR

02224

LIROS Control-XTR is optimised for grip, combined with high abrasion and temperature resistance.

- grip factor 10
- maximum grip under extreme winch and stopper conditions
- perfect release with compact cover construction
- excellent abrasion resistance at high temperatures
- superior cover-core power transference
- low stretch



Cover

50% Technora
50% high-tenacity Polyester

Construction

32-plaited

Core

Dyneema® SK99 pre-stretched with LIROS HSS and LIROS LCS

Colours



239 White-Black



178 Red-Black



090 Green-Black



019 Blue-Black

mm	Weight g/m	Weight Cover	Weight Core	Stretch %	Breaking strength kg
6	24	11	13	< 1.0	2800
8	44	20	24	< 1.0	6250
10	60	27	33	< 1.0	8000
12	95	48	47	< 1.0	11200
14	131	60	71	< 1.0	14100
16	167	72	95	< 1.0	17500
18	232	109	122	< 1.0	20400
20	222	111	111	< 1.0	23500
22	270	135	135	< 1.0	27600
24	320	160	160	< 1.0	31500



LIROS Racer VP-XTR

02014

LIROS Racer VP-XTR is a high-quality, multi-purpose line with optimal release characteristics, as well as high abrasion and temperature resistance.

Designed for highly demanding sailors, with the ideal balance among all critical attributes.

- grip factor 7
- removable cover for XTReme performance
- maximum abrasion resistance under high temperatures with twisted Vectran®/Polyester cover
- Vectran® in cover resists melting
- best cover-core attachment / multi-use / very low stretch



Cover

Vectran®/Polyester

Construction

32-plaited

Core

Dyneema® SK99 pre-stretched with LIROS HSS and LIROS LCS

Colours



419 Beige-Orange



422 Beige-Burgundy



263 Beige-Steel Blue

mm	Weight g/m	Weight Cover	Weight Core	Stretch %	Breaking strength kg
8	52	28	24	< 1.0	6250
10	66	31	35	< 1.0	8000
12	98	49	49	< 1.0	11200
14	121	61	60	< 1.0	14100
16	156	78	78	< 1.0	17500
18	180	90	90	< 1.0	20400

NEW



XTreme

LIROS D-Pro-XTR

01514

D-Pro-XTR is a 12-plaited hollow-braid Dyneema® line with highly durable XTR Grip Coating. Well-suited as a replacement for steel and hard shackles. D-Pro-XTR is the ultimate line for applications that require the least stretch.

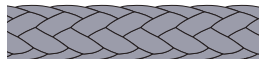
- extremely high breaking load
- Grip Factor 3
- extremely low stretch
- very light weight
- easy to splice
- no water absorption
- easy to cover with Protect-XTR (see page 21)
- ideal for heavy terminals when tailored

mm	Weight g/m	Stretch %	Breaking strength kg
3	4.7	< 1.0	1300
4	6.8	< 1.0	1600
5	13	< 1.0	3000
6	23	< 1.0	5100
8	36	< 1.0	7000
10	49	< 1.0	8800
12	94	< 1.0	14000
14	118	< 1.0	17000
16	143	< 1.0	22400

Material LIROS Dyneema® SK99

Construction 12-plaited

Colour



316
Carbon



LIROS HSS
Heat Stretch System
LIROS LCS
LIROS Coating System

NEW

LIROS D-Pro Static

01504

LIROS D-Pro Static is the only Dyneema product with no creep. Ideal for any application where dimensional stability is critical (outhaul, backstay, dinghy shrouds). Also suited for static lines in industrial or other water sport applications.

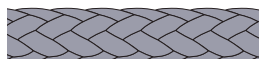
- no elongation Dyneema® DM20
- high breaking load with smallest diameter and lowest weight
- exceptionally easy to splice
- highly UV-stable, excellent abrasion resistance
- LIROS Coating System

mm	Weight g/m	Stretch %	Breaking strength kg
3	4.7	< 1.0	900
4	6.8	< 1.0	1230
5	13	< 1.0	2450
6	23	< 1.0	4050
8	36	< 1.0	5000
10	49	< 1.0	8500
12	94	< 1.0	11300

Material LIROS Dyneema® DM20

Construction 12-plaited

Colour



316
Carbon



LIROS HSS
Heat Stretch System
LIROS LCS
LIROS Coating System



LIROS V-Plus-XTR

04007

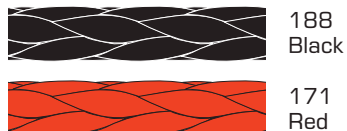
V-Plus-XTR is 12-plaited, hollow braided Vectran® with high tech XTR Coating. Perfect as a wire replacement or an alternative to hard shackles. An ideal line for applications that require the lowest stretch without creep. Vectran® delivers extreme precision.

- Grip Factor 7
- no creep
- high-tech XTR coating
- easy to splice
- easy to cover with Protect-XTR (see page 21)

mm	Weight g/m	Stretch %	Breaking strength kg
2	3	< 0.8	350
3	7	< 0.8	1100
4	10	< 0.8	1400
5	22	< 0.8	2800
6	32	< 0.8	4800
8	48	< 0.8	7000

Material 100% Vectran® with LCS Coating
Construction 12-plaited

Colours



LIROS LCS
LIROS Coating System

Vectran™



LIROS V-Plus Zero

00099-0370

LIROS V-Plus Zero with 100% Dyneema® cover is the perfect forestay material, with complete splicing service from LIROS. Specially developed as a replacement for wire forestays with wheel or ratchet adjusters. Simplifies installation and setup for attachable light-weather genoa stay or storm jib babystay.

- Grip Factor 3
- Dyneema® for lowest friction
- excellent handling
- low weight
- new LCS coating
- no creep

Cover Dyneema® SK78

Construction 32-plaited

Core 100% Vectran® with LCS Coating

mm	Weight g/m	Weight Cover	Weight Core	Stretch %	Breaking strength kg
10	78	30	48	< 0.8	7000

Colour



Vectran™

LIROS LCS
LIROS Coating System



LIROS Slide Protect-XTR

10148

Material

impregnated Dyneema® SK78

Construction

48-plaited hollow-braid

LIROS Slide Protect-XTR provides a supplemental cover and protects against abrasion in turning blocks and fairleads. Slide Protect-XTR is not suited for protection in stoppers or on winches, the low cover Grip Factor delivers lowest friction.

- Grip Factor 3



LIROS LCS
LIROS Coating System

Cover for lines Ø		Weight g/m
5/6	24-plaited	5
8/10	48-plaited	10
12/14	48-plaited	29
16/24	48-plaited	40

Colour



316
Carbon



LIROS Grip Protect-XTR

04500

Material

black Aramid®

Construction

48-plaited hollow braid

LIROS Grip Protect-XTR covers lines and provides optimal abrasion protection. The high-grip surface of this cover delivers the best in power transference inside a halyard stopper or jammer and is the perfect solution to avoid stopper slippage.

- Grip Factor 10



Cover for lines Ø		Weight g/m
5/6	24-plaited	5
8/10	48-plaited	10
12/14	48-plaited	21
16/24	48-plaited	41

Colour



188
Black



NEW

Dinghy

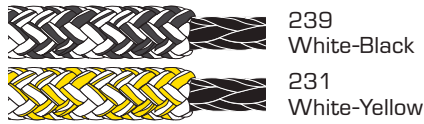
LIROS Magic-XTR

01513

LIROS Magic-XTR is ideal for use in dinghies and multihulls. Superior high grip, extremely durable cover. Perfect in cleats. The professional's choice.

- working stretch < 1.0%
- Grip Factor 9
- removable cover for top performance
- superior abrasion resistance - combo-cover (twisted Technora®/Dyneema®)
- best cover-core attachment
- very low stretch, highest breaking load

Colours



LIROS HSS
Heat Stretch System

Technora®
The power of Aramid

Ø mm	Breaking strength kg	Length of spool m
4	800	100
5	1500	100
6	2000	100
8	4000	100

Cover

Technora® / Dyneema®

Construction

4-5 mm 16-plaited
6-8 mm 24-plaited

Core

braided, pre-stretch, carbon-coloured Dyneema® SK99

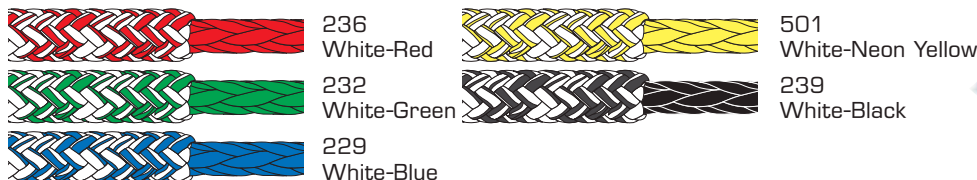
LIROS Magic Pro

01507

LIROS Magic Pro combines all of the best characteristics with extreme low stretch. The core is coated and specially treated with LIROS Heat-Stretch-System.

- Grip Factor 9
- exacting cover construction for excellent hold in cleats and on winches
- outstanding block performance, enabling ultra-fast manoeuvres
- specialised Polyester grip fibres for optimal control in any condntions, perfect handling through manoeuvres
- LIROS Heat-Stretch-System for lowest stretch
- ideal for cover-stripping

Colours



Ø mm	Breaking strength kg	Length of spool m
3	450	100
4	620	100
5	1250	100
6	1600	100
8	3000	100

Cover

Polyester grip fibres and spun-dyed Polyester

Construction

4-8 mm 16-plaited

Core

coloured Dyneema® SK78 with LIROS XTR Grip Coating



LIROS HSS
Heat Stretch System
LIROS LCS
LIROS Coating System



LIROS Magic Race

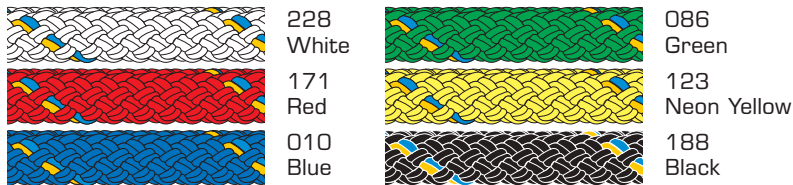
02016

Extremely low stretch, compact, and abrasion resistant braid with high-strength Dyneema® core.

- *Grip Factor 9*
- *working stretch < 1.5%*
- *highly UV resistant*
- *low stretch, high grip*

Ø mm	Breaking strength kg	Length of spool m
2	270	100
2.5	390	100
3	550	100
4	800	100
5	1100	100

Colours



LIROS HSS
Heat Stretch System
LIROS LCS
LIROS Coating System

- Cover** special high-twisted Polyester
- Construction** 2–3 mm 16-plaited
4 mm and up 1:1 plaited
- Core** coated Dyneema® SK78



LIROS DynaSoft

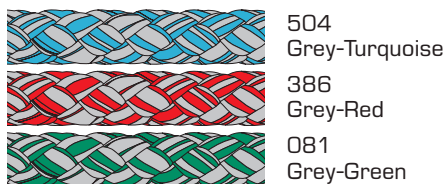
02055

LIROS DynaSoft combines the best grip, the lightest weight, and the lowest stretch. Combination braid of high-strength Polyester grip fibres and Dyneema®. Ideal for dinghy sheets and regatta halyard leads.

- *High grip*
- *Extremely flexible*
- *LIROS Heat-Stretch-System for lowest stretch*
- *Excellent handleability*

Ø mm	Breaking strength kg	Length of spool m
4	500	100
5	850	100
6	1200	100
8	2000	100

Colours



Material

Ideal hybrid of Dyneema® SK78 and Polyester grip fibres

Construction

8-plaited with core



LIROS HSS
Heat Stretch System
LIROS LCS
LIROS Coating System



NEW

Dinghy

LIROS Magic Vision

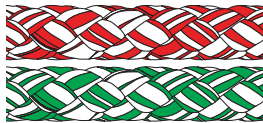
01516

Perfect all-purpose line for any dinghy or smaller sportboat. Durable Polyester in a modern design - multi-use rope, perfect for dinghy trim and control lines.

- *working stretch < 4%*
- *low-stretch Polyester sheet for boats under 28 ft.*
- *very durable*
- *heat-set*

Ø mm	Breaking strength kg	Length of spool m
4	420	100
5	580	100
6	800	100
8	1500	100
10	2300	100

Colours



236
White-Red

232
White-Green



239
White-Black

402
White-Steel blue

LIROS HSS
Heat Stretch System

Material high-tenacity Polyester

Construction 8-plaited heat-set Polyester

LIROS Magic Sheet

01506

LIROS Magic Sheet has been specially developed for use as main and jib sheets on dinghies, sports boats, and catamarans.

- *working stretch < 8%*
- *great in turning blocks, fastest manoeuvres*
- *Polyester grip fibres provide best cover-core attachment and perfect grip for optimal control in any situation*

Ø mm	Breaking strength kg	Length of spool m
7	970	100
9	1500	100

Colours



405
White-Navy

404
White-Silver



406
White-Orange

Cover

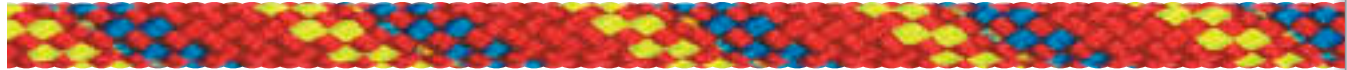
Polyester grip fibres and spun-dyed Polyester

Construction

16-plaited

Core

high-tenacity braided Polypropylene



LIROS Magic Gold

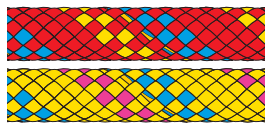
01500

Easy-to-handle, low stretch performance line for all racing applications. Compact braiding for excellent abrasion resistance.

- working stretch < 1.5%
- very easy-to-handle and durable
- low stretch
- LIROS Heat-Stretch-System
- 1.5 mm available in full colour only: yellow, pink, purple and black

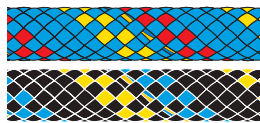
Ø mm	Breaking strength kg	Length of spool m
1.5	125	100
2	240	100
3	420	100
4	580	100
5	1050	100
6	1800	100

Colours



411
Red-Neon Yellow-Blue

414
Neon Yellow-Pink-Blue



506
Blue-Neon Yellow-Red

408
Black-Neon Yellow-Blue



LIROS HSS
HeatStretchSystem

Cover	Polyester
Construction	1.5–5 mm 16-plaited 6 mm 1:1 plaited
Core	braided Dyneema® SK78



LIROS Magic Speed

01501

Premium multi-purpose technical line for dinghies and small keelboats, with attractive design. Highly abrasion resistant in cleats. Heat-set Polyester core for low stretch.

- working stretch < 5%
- very durable
- low stretch

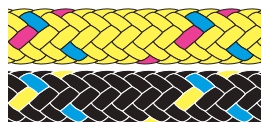
Ø mm	Breaking strength kg	Length of spool m
2	95	100
3	185	100
4	320	100
5	680	100
6	940	100

Colours



412
Red-Pink-Blue

479
Blue-Pink-Red



414
Neon Yellow-Pink-Blue

408
Black-Neon Yellow-Blue

Cover	Polyester
Construction	2–5 mm 16-plaited 6 mm 1:1 plaited
Core	Polyester



LIROS Dyneema® Custom Spisheet

02049

Very light, high quality, individually produced tapered spinnaker sheet with Dyneema® SK78 core for extremely low stretch and high strength. Minimal water absorption.

- Individual customisation available for any boat
- tailor-made for long working life
- lowest stretch and water absorbency
- premium spun Polyester for optimal grip
- available in diameters from 3-12mm
- length, diameter, and colour customised to your specifications
- lowest weight
- available with eye splice

Cover

thick end - high-grip matt Polyester with Dyneema® SK78

tapered end - 100% Dyneema® SK78

Core

braided Dyneema® SK78

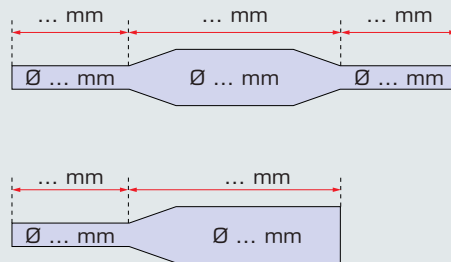


Colours



Required order specifications:

1. Ø thick end
2. length thick end
3. Ø tapered end
4. length tapered end
5. Colour



Available diameter combinations:

3 – 5 mm	4 – 10 mm	6 – 8 mm
3 – 6 mm	5 – 8 mm	6 – 9 mm
4 – 6 mm	5 – 9 mm	6 – 10 mm
4 – 8 mm	5 – 10 mm	6 – 12 mm
4 – 9 mm	5 – 12 mm	8 – 12 mm

LIROS Fender Lines

01580-0801

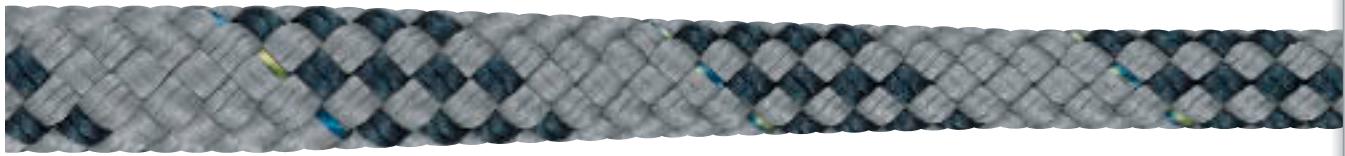
LIROS Fender Line	Ø mm	Length m	Eye cm
	8	2.0	15

- pair of premium fender lines
- eye splice (15 cm) on one end
- finished length 2.0 m

Material

high-tenacity black Polyester





LIROS Taper Pro

02010

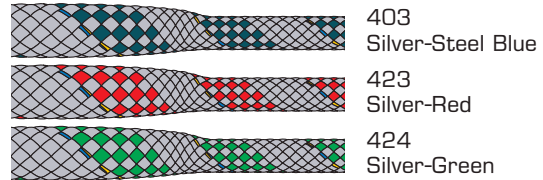
LIROS Taper Pro is the ideal line for latest generation of head-sail furlers. This high-strength Dyneema® line offers a smooth transition from thick to thin for optimal handling. The thick cover provides excellent grip, while the thin end enables easy rolling, even under heavy load with small diameter furlers. Perfect as a low-stretch halyard for boats from 25-35 feet.

- working stretch < 1.5%
- optimum grip on winches
- easy reefing, safe manoeuvres
- perfect solution for tapered halyards

02010-0900 Tapering from 9 mm (20 m) to 6 mm (10 m) = 30 m
02010-1100 Tapering from 11 mm (20 m) to 8 mm (15 m) = 35 m

Ø mm	Breaking strength kg	Length m
9-6	2300	20 m Ø 9 mm + 10 m Ø 6 mm
11-8	3600	20 m Ø 11 mm + 15 m Ø 8 mm

Colours



Cover high-tenacity Polyester
Construction 1:1 plaited
Core Dyneema® SK78 with additional cover plaiting



LIROS HSS
HeatStretchSystem



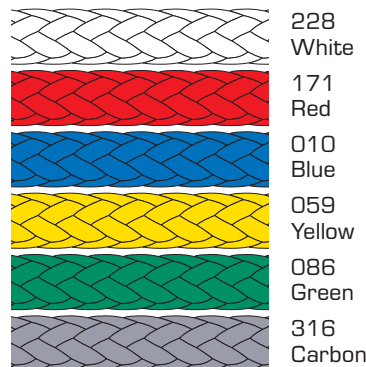
LIROS Soft Shackle

Ref.	Breaking strength tons	Colour	working load tons	Approx Ø mm	Rope Ø
00146-0066	1	228 White*	0.5	6	4
00146-0090	1.5	316 Carbon	0.75	8	5
00146-0069	2	171 Red*	1	12	6
00146-0070	4	010 Blue*	2	16	8
00146-0071	6	059 Yellow*	3	18	10
00146-0072	8	086 Green*	4	20	12
00146-0073	10	316 Carbon	5	24	14

* All sizes also available in Carbon

NEW

Colours



LIROS HSS
HeatStretchSystem
LIROS LCS
LIROS Coating System

Connecting sheets, hooking up halyards, attaching blocks, LIROS XTR Soft Shackle is the answer. Developed by LIROS with 100% high-strength Dyneema® SK78 fibres, the LIROS Soft Shackle replaces metal shackles on deck.

Simple and fast to open with our blue LIROS lanyard, which also shows the breaking load.

Advantages of LIROS Soft Shackle:

- no more injuries or deck damage from metal shackle impact
- 10x lighter for the same breaking load than steel
- very easy and simple to use
- won't unintentionally open under load
- after high loads easy to undo
- LIROS premium quality
- multiple industrial and outdoor applications

Material Dyneema® SK78



LIROS Bumperline

01079

Premium square-braided fender line. Smooth material lays flat against topsides. Soft and easy to handle. Spliced attachments on both ends.

100% UV stabilised Polypropylene multifilament.
Length between splices: 2.5 m, diameter: 12 mm.

- pliable
- lays cleanly against topsides
- soft and easy to handle
- low water absorption
- floats

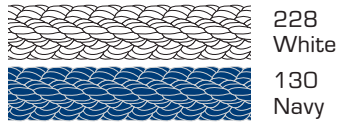
Material

Polypropylene multifilament

Construction

8-plaited square braiding

Colours



Ref.	Ø mm	Length m
01079-5001	50	5
01079-5002	50	7.5



LIROS Max Load System (MLS)

LIROS MLS crafted halyards and sheets for all popular boat sizes. Regatta ready, manufactured to exact LIROS standards.

LIROS MLS System with integrated shackle comes in a handy MLS mesh stow bag.

- Premium workmanship with Wichard shackle
- Product information on page 8, Dynamic Plus

Halyard (Main, Genoa, Spinnaker)

Ref.	Ø mm	Length m	Attachment	Boat Size ft
02004-0830	8	30	pilot eye/spliced Wichard halyard shackle	22–29
02004-1035	10	35	pilot eye/spliced Wichard halyard shackle	30–36
02004-1240	12	40	pilot eye/spliced Wichard halyard shackle	37–42

Sheet (Spinnaker, Genoa)

Ref.	Ø mm	Length m	Attachment	Boat Size ft
02004-0825	8	25	whipping/spliced Wichard snap shackle	22–36
02004-1025	10	25	whipping/spliced Wichard snap shackle	37–40
02004-1230	12	30	whipping/spliced Wichard snap shackle	40–42



LIROS Super Yacht Mooring 01300

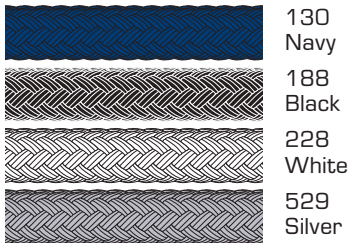
LIROS Superyacht Mooring is a completely new mooring line developed for superyachts up to 200 feet. Flexible core provides the best in safety, while the specialised LIROS cover delivers premium comfort. Our high end LIROS version with eye splice and protective leather chafing guard available upon request in individual lengths.

- working stretch > 15%
- ultimate in safety
- extremely easy to handle
- highly abrasion resistant LIROS Leather Guard eye splice

LIROS LCS
LIROS Coating System

Cover Polyester high-twisted
Construction 24-plaited, coated
Core high-tenacity braided Polyester

Colours



Ref.	Ø mm	Boat size* ft	Breaking strength kg	Weight kg/100 m
01300-2400	24	70 – 90'	11500	40
01300-2800	28	up to 120'	15900	58
01300-3200	32	up to 150'	19800	74
01300-3600	36	up to 180'	26000	95
01300-4000	40	up to 200'	32800	115
01300-4400	44	up to 220'	38500	142
01300-4800	48	up to 250'	46000	170
01300-5200	52	up to 280'	53500	198

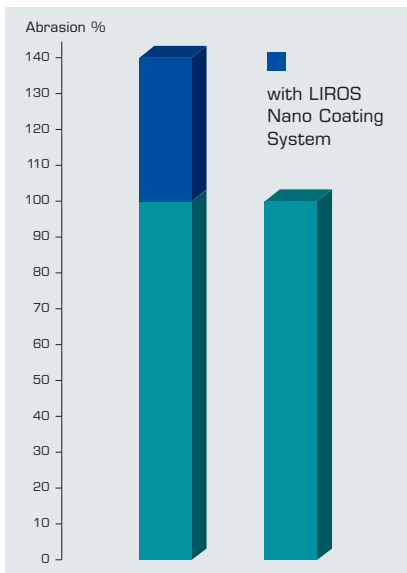
* for heavier than average yachts, choose the next larger diameter



Leather chafing guard



100% hand-sewn, Made in Germany



Abrasion testing in LIROS Labs



Premium whipping



LIROS Handy Elastic

00136/00137

The top performer in LIROS tests. High-stretch, extremely abrasion resistant mooring line, towline, or anchor line. Specially designed with high elasticity fibres. Can be used for shock absorption in extreme settings.

- working stretch > 20%
- very easy to splice
- highly elastic and highly UV-stable
- extremely abrasion resistant
- very easy to handle
- up to 40 mm diameter available upon request

Ø mm	Breaking strength kg	Length of spool m
8	1600	200
10	2500	200
12	3900	200
14	4800	150
16	6000	100
18	8500	100
20	9900	100
22	10600	100
24	12000	100

Colours 00136



00137



Cover

high-tenacity Polyamide

Construction

1:1 plaited

Core

high-elastic braided Polyamide



All mooring lines come in LIROS Netbags.

LIROS Handy Elastic Mooring Line pre spliced

Ref.	Ø mm	Length m	Eye splice cm
00136-1006	10	6	40
00136-1010	10	10	40
00136-1015	10	15	40
00136-1206	12	6	40
00136-1210	12	10	40
00136-1215	12	15	40
00136-1406	14	6	40
00136-1410	14	10	40
00136-1415	14	15	40

Ref.	Ø mm	Length m	Eye splice cm
00136-1606	16	6	40
00136-1610	16	10	40
00136-1615	16	15	40
00136-1806	18	6	40
00136-1810	18	10	40
00136-1815	18	15	40

Note:

LIROS splices are guaranteed up to 80% of the stated linear breaking load

Colours 00136



00137





LIROS Porto

00133

Very easy to handle 100% Polyester mooring or anchor line. Extremely strong and abrasion resistant, will not stiffen up. Special twist construction for high stretch.

- working stretch > 15%
- very easy to splice
- very easy to handle, highly UV-stable
- high strength and excellent abrasion resistance
- will not stiffen over time

Cover

Polyester high-twisted

Construction

 8–10 mm 16-plaited
 12 mm and up 20-plaited

Core

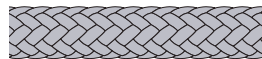
high-tenacity braided Polyester

Ø mm	Breaking strength kg	Length of spool m
8	1650	200
10	2300	200
12	2900	200
14	3700	150
16	4900	100
18	5300	100
20	6300	100
22	8900	100
24	9600	100

Colours


 239
 White-Black

 130
 Navy

 188
 Black

 529
 Silver


All mooring lines come in attractive LIROS Netbags.

LIROS Porto Mooring Line pre spliced

Ref.	Ø mm	Length m	Eye splice cm
00133-1006	10	6	40
00133-1010	10	10	40
00133-1015	10	15	40
00133-1206	12	6	40
00133-1210	12	10	40
00133-1215	12	15	40
00133-1406	14	6	40
00133-1410	14	10	40
00133-1415	14	15	40
00133-1606	16	6	40
00133-1610	16	10	40
00133-1615	16	15	40
00133-1806	18	6	40
00133-1810	18	10	40
00133-1815	18	15	40

LIROS Porto Anchor Line pre spliced

Ref.	Ø mm	Length m	Eye splice
00133-1030	10	30	S/S thimble
00133-1230	12	30	S/S thimble
00133-1430	14	30	S/S thimble
00133-1630	16	30	S/S thimble

Note:

LIROS splices are guaranteed up to 80% of the stated linear breaking load

Colours


 239
 White-Black

 188
 Black

 130
 Navy

 529
 Silver



LIROS Squareline-PES

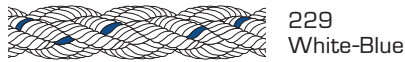
01047/01049

Super pliable, easy handling square-braided mooring or anchor line of 100% high-tenacity Polyester. 100% kink-free, easy to splice and easily joined to chain.

- working stretch > 15%
- soft and easy to handle, extremely UV-stable
- smooth, comfortable feel
- nonkinking and abrasion resistant
- easy to splice

Ø mm	Breaking strength kg	Length of spool m
10	2000	200
12	2400	200
14	3800	150
16	4700	100
18	5800	100
20	7600	100
22	8600	100
24	11600	100
26	13700	100
28	15000	100

Colour 01047



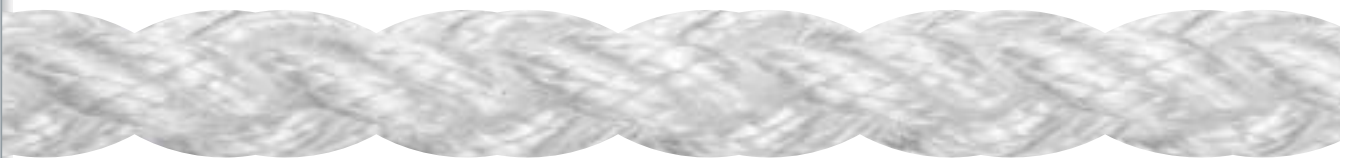
229
White-Blue

Colours 01049



188
Black
130
Navy

Material high-tenacity Polyester
Construction 8-strand octoplait



LIROS Squareline-PP

01078/01079/01080

Very light and easy-to-handle mooring line, land line, or towing line. High-strength, floating, UV-stabilised.

- working stretch > 15%
- light and easy to handle
- floats

Ø mm	Breaking strength kg	Length of spool m
12	2100	200
14	2700	150
16	3400	100
18	4000	100
20	5000	100

01078



228
White

01079



010
Blue

01080



188
Black

Material high-tenacity Polypropylene multifilament
Construction 8-strand octoplait

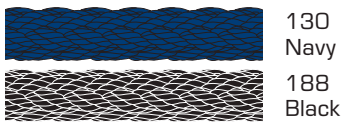
LIROS Moorex 12

00132

Very pliable, easy to handle, high-stretch mooring line. Hollow braided, very easy to splice. 12-plaited high-tenacity Polyester.

- working stretch > 15%
- economical braided LIROS mooring line
- very smooth and easy to handle
- high stretch
- easy to splice

Colours



Material high-tenacity Polyester

Construction 12-plaited

Ø mm	Breaking strength kg	Length of spool m
10	2400	200
12	3000	200
14	4000	150
16	4600	100
18	5300	100
20	7200	100
22	8600	100



All finished mooring lines come in attractive LIROS Netbags.

LIROS Moorex 12 mooring line pre spliced

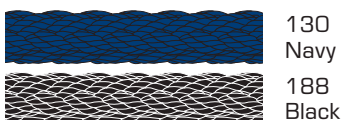
Ref.	Ø mm	Length m	Eye splice cm
00132-1006	10	6	40
00132-1010	10	10	40
00132-1015	10	15	40
00132-1206	12	6	40
00132-1210	12	10	40
00132-1215	12	15	40
00132-1406	14	6	40
00132-1410	14	10	40
00132-1415	14	15	40

Ref.	Ø mm	Length m	Eye splice cm
00132-1606	16	6	40
00132-1610	16	10	40
00132-1615	16	15	40
00132-1806	18	6	40
00132-1810	18	10	40
00132-1815	18	15	40

Note:

LIROS splices are guaranteed up to 80% of the stated linear breaking load

Colours





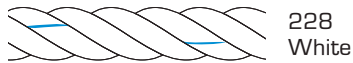
LIROS Polyester Rope

00111/01110

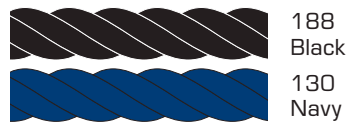
Classic, economical, very easy to splice, high strength, abrasion resistant rope for mooring and anchoring. 3-strand made of 100% Polyester. Heat-set. According to DIN 83331/EN 697 standards..

- working stretch > 15%
- very easy to splice
- extremely strong and abrasion resistant
- heat-set
- highest UV stability
- perfect for a lot of industrial applications

Colour 00111



Colours 01110



Material high-tenacity Polyester

Construction 3-strand, heat-set

Ø mm	Breaking strength kg	Length of spool m
3	280	250
4	400	250
5	600	250
6	800	200
8	1400	200
10	2000	200
12	2600	200
14	3600	150
16	5000	100
18	6000	100
20	7000	100
22	9000	100
24	10500	100
30	14800	100



All finished mooring lines come in attractive LIROS Netbags.

LIROS Polyester Rope Mooring Line pre spliced

Ref.	Ø mm	Length m	Eye splice cm
00111-1006	10	6	40
00111-1010	10	10	40
00111-1015	10	15	40
00111-1206	12	6	40
00111-1210	12	10	40
00111-1215	12	15	40
00111-1406	14	6	40
00111-1410	14	10	40
00111-1415	14	15	40
00111-1606	16	6	40
00111-1610	16	10	40
00111-1615	16	15	40

LIROS Polyester Rope Anchor Line pre spliced

Ref.	Ø mm	Length m	Eye splice cm
00111-1030	10	30	S/S thimble
00111-1230	12	30	S/S thimble
00111-1430	14	30	S/S thimble
00111-1630	16	30	S/S thimble

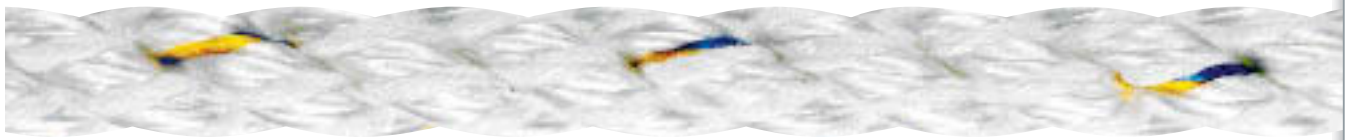
Note:
LIROS splices are guaranteed up to 80% of the stated linear breaking load

Colour 00111



Colours 01110





LIROS Nordic

01173

Traditional mooring line, popular in Scandinavia. Pliable, high-grip mooring line, easy to handle.

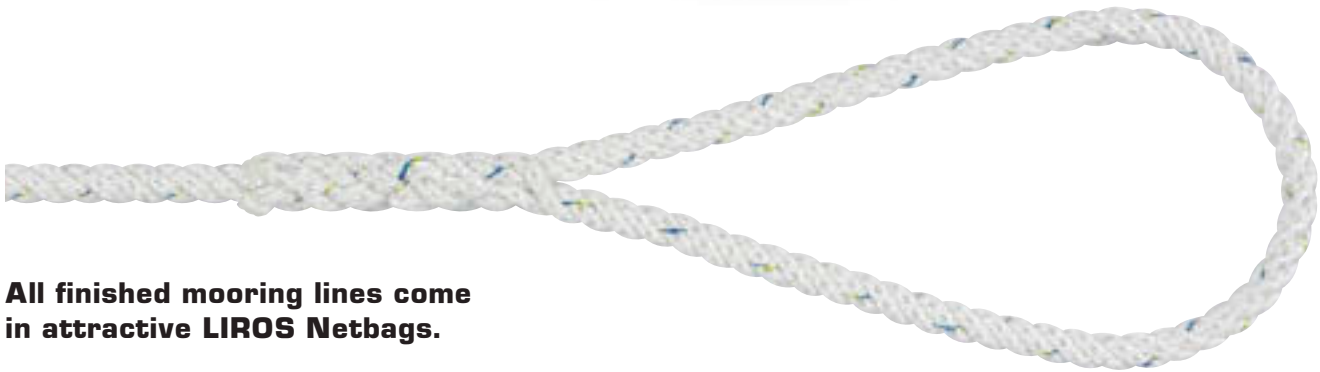
- working stretch > 17%
- built for grip
- easy to splice

Ø mm	Breaking strength kg	Length of spool m
6	700	200
8	1200	200
10	1600	200
12	2300	200
14	2900	150
16	3760	100
18	4550	100

Colour



Material high tenacity Polyester and spun Polyester combination
Construction 3-strand, heat-set



All finished mooring lines come in attractive LIROS Netbags.

LIROS Nordic Mooring Line

pre spliced

Ref.	Ø mm	Length m	Eye splice cm
01173-1006	10	6	40
01173-1010	10	10	40
01173-1015	10	15	40
01173-1206	12	6	40
01173-1210	12	10	40
01173-1215	12	15	40
01173-1406	14	6	40
01173-1410	14	10	40
01173-1415	14	15	40

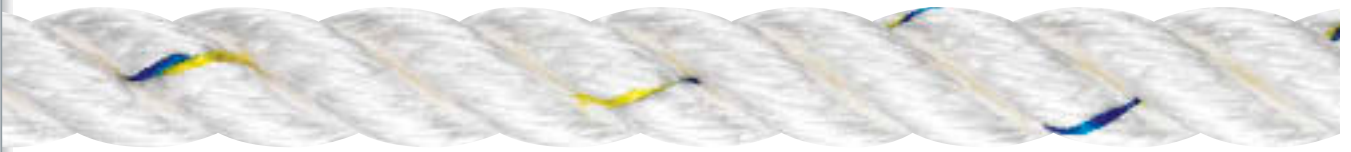
Ref.	Ø mm	Length m	Eye splice cm
01173-1606	16	6	40
01173-1610	16	10	40
01173-1615	16	15	40
01173-1806	18	6	40
01173-1810	18	10	40
01173-1815	18	15	40

Note:

LIROS splices are guaranteed up to 80% of the stated linear breaking load

Colour





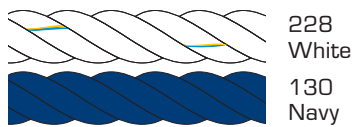
LIROS Polyamide Rope

00110

Classic rope for mooring lines or high-stretch stays. 3-strand twist for easy splicing. High strength and excellent abrasion resistance. 100% heat-set Nylon, according to DIN 83330/EN 696.

- *working stretch > 20%*
- *very easy to splice*
- *extremely durable and abrasion resistant*
- *UV stabilised*
- *perfectly suited for multiple industrial uses*

Colours



Material high-tenacity Polyamide

Construction 3-strand, heat-set

Ø mm	Breaking strength kg	Length of spool m
4	380	250
5	600	250
6	900	200
8	1440	200
10	2400	200
12	3300	200
14	4400	150
16	5600	100
18	7000	100
20	8140	100
22	9800	100
24	11800	100
30	17400	100



LIROS Lirolen

01120/01123/01126

All-purpose, floating 3-strand rope. Easy to splice, stays pliable even after extensive usage.

01120: white, heat-set Polypropylene multifilament, meets DIN 83344/EN 699

01123: spun-dyed, heat-set Polypropylene multifilament, meets DIN 83344/EN 699

01126: spun-dyed, heat-set Polypropylene multifilament, meets DIN 83344/EN 699

- *working stretch > 15%*
- *easy to splice*
- *economical, allround line*
- *low water absorption*
- *floats*

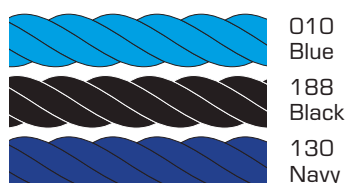
Colour 01120



Colour 01126



Colours 01123



Material Polypropylene multifilament

Construction 3-strand, heat-set

Ø mm	Breaking strength kg	Length of spool m
4	280	250
5	400	250
6	590	200
8	1040	200
10	1600	200
12	2200	200
14	3000	150
16	3700	100
18	4700	100
20	5700	100



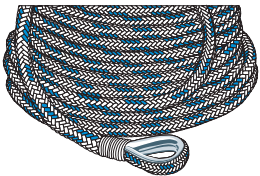
LIROS Handy-Anchor 01320

Superior anchor line with lead weight built into the last 10 meters. Can be used without chain, especially easy to handle and stow. Available in 20, 30, and 40 m lengths, with spliced S/S-thimble and whipping.

100 % Polyester abrasion and UV-resistant. Comes in handy, blue LIROS kitbag.

- can be used without chain
- super easy to handle
- very simple to stow
- attractive LIROS kitbag

Colour 01320



229
White-Blue

Cover

Polyester

Construction

20-plaited

Core

Polyester, lead (10m from S/S thimble)

	Ø mm	Breaking strength kg	Length m	Weight kg
01320	10	1500	20	3.4
	10	1500	30	4.15
	10	1500	40	4.9
	12	2200	20	4.1
	12	2200	30	5.0
	12	2200	40	6.3
	14	3100	40	8.5
	16	4000	40	10.8

All lengths have 10 m of integrated lead weighting and steel thimble

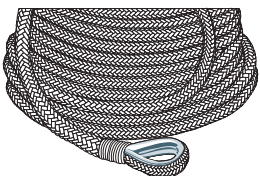


LIROS Winch-Master W1322

Similar to LIROS Handy-Anchor, but optimised to withstand windlass usage.

- completely with lead core
- attractive LIROS kitbag
- heavy weight construction

Colour W1322



228
White

Cover

Polyester

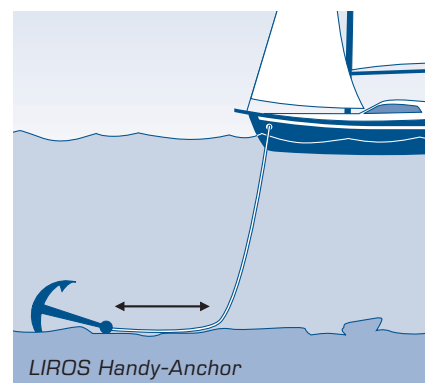
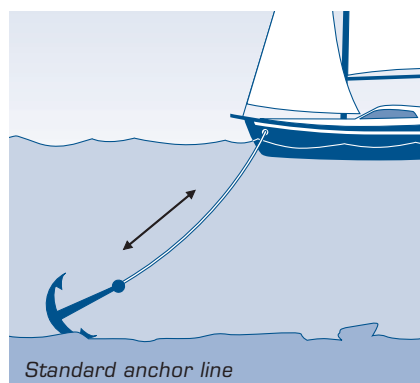
Construction

16-plaited

Core

Polyester, lead

	Ø mm	Breaking strength kg	Length m	Weight kg
W1322	12	1500	30	7.9
	12	1500	40	10.5
	12	1500	50	13.1
	14	2200	40	11.0
	14	2200	50	14.2
	16	3100	40	12.9
	16	3100	50	16.1




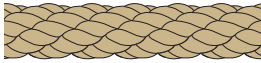




LIROS Barrier Colour 01160/01161

Visually appealing cable braid, specially designed for stairways and cordoned areas.

- *custom lengths available*
- *28-30mm diameter*

Colours 01160

	049 Dark Red
	042 Dark Beige
	046 Dark Green
	044 Dark Brown

Colours 01161

	130 Navy
	188 Black

Material 01160	Acrylic yarn
Material 01161	spun Polyester
Construction	4-strand cable braiding



LIROS Barrier Classic

1140D/0114D

Cable braided rope, specially designed for stairways and cordoned areas. Poly-Hemp has the same good grip as Hemp, but is even softer and more weather-resistant.

- *abrasion resistant*
- *easy to splice*
- *custom lengths available*
- *28-30 mm diameter*
- *1140D ideal for outdoor use*

Alternate: 01141-3500
4-strand twisted made of spun Polypropylene

Colour 1140D

	037 Hemp
---	-------------

Colour 0114D

	037 Hemp
---	-------------

Colour 01141-3500

	037 Hemp
---	-------------

Material	spun Polypropylene rope yarn
Construction	4-strand cable twist

Material	natural spun Hemp
Construction	4-strand cable twist

Material	spun Polypropylene rope yarn
Construction	4-strand twist



LIROS Shock Cord 00190

Our high-elasticity shock cord with the best in stretch characteristics. Braided out of abrasion resistant Polyester in solid colour or white with blue-gold mark yarn.

- round, abrasion-resistant construction
- also available in industrial bulk quantities
- Made in Germany

Cover	Polyester	
Construction	3–8 mm	16-plaited
	10–14 mm	24-plaited
Core	premium Latex	

Colours

	228	White
	188	Black
	171	Red
	086	Green
	010	Blue
	059	Yellow

Ø mm	Length of spool m
3	100
4	100
5	100
6	100
7	100
8	100
10	100
12	100
14	100

LIROS Safety Netting 02040-0001-228



Premium knotted safety netting of 2mm white, braided Polyester with reinforced edging.

- mesh openings approx 45mm
- netting width 60cm
- 50m lengths
- colour white 228

LIROS Sail Ties 00187-2525-229

Practical sail ties keep your sails safe. Premium end loop stitching for easy tying.

- 5 pieces in LIROS Netbag
- length: 2m (each)





LIROS Quick-Clip

01905/01907

Universal, all-purpose attachment for shock cords. 5 pieces in PE bag, or individually available.

	Ø mm	Length cm
--	---------	--------------

01905-4050 4 50

01905-5070 5 70

01907-8100 8 100

01907-8140 8 140

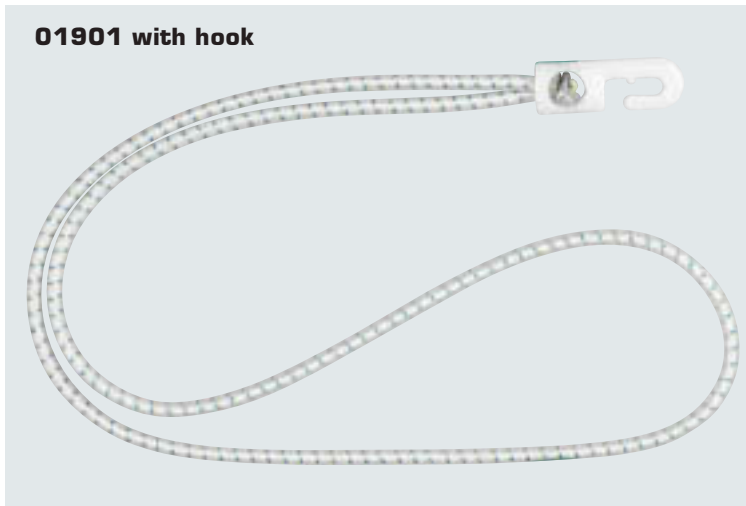
Hook attachments, carabine hooks and toggles available loose

LIROS Elastic Straps

01901/01902

Our premium braided Polyester shock cord with nylon hook or cones. 5 pieces in PE bag or available individually. High quality stretch latex core for Long-lasting elasticity. Perfect for hanging advertising flags or banners.

- Made in Germany



	Ø mm	Length cm
--	---------	--------------

01901-0415-228 4 15

01902-0430-228 4 30

01901-0435-228 4 35

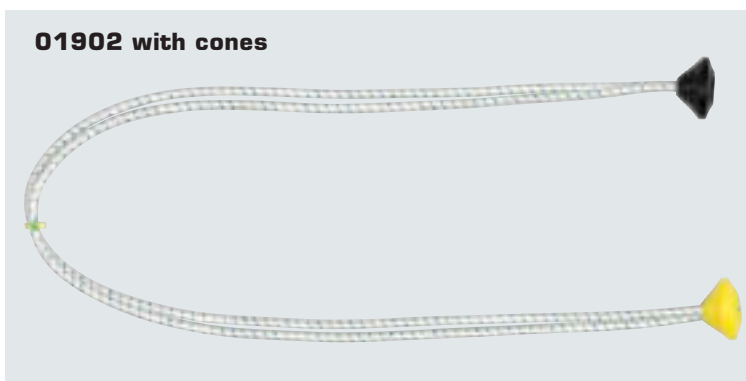
01902-0440-228 4 40

01901-0455-228 4 55

01902-0450-228 4 50

01901-0475-228 4 75

01902-0460-228 4 60

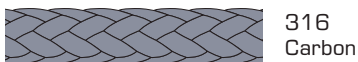


LIROS Offroad Winch Rope 01481

Specially-designed recovery rope for extreme winch applications. Perfect replacement for wire cable. Strong and 10 x lighter than steel, LIROS Offroad Winch Rope offers perfect performance and safety. Ready-to-use: carabine hook on one end, plus 2 movable protective jackets for friction points. Winchend: special flat terminal for winch drum attachment, protected by 5 m heat resistant monofilament braid.

- working stretch < 1%
- extremely high breaking load with smallest diameter and lowest weight
- Two 1m protective jackets
- ideal replacement for steel cable
- very easy to splice
- high UV stability and abrasion resistance
- LIROS Heat-Stretch-System

Colour



316
Carbon

Material

HMPE



LIROS HSS
Heat Stretch System
LIROS LCS
LIROS Coating System

Ref.	Ø mm	Length m	Winch size t	Breaking strength kg
01481-0801	8	30	4.3	5500
01481-0802	8	40	4.3	5500
01481-1001	10	30	4.3	8500
01481-1002	10	40	4.3	8500

Hook breaking strength: 2.5 t safe working load



Winner in "4X4 Action" Magazine for real offroaders

* 6 other winch lines tested (4/2014 issue)

LIROS Offroad Towing Rope 01058-2401

LIROS Offroad Towing Rope has been specially designed by LIROS to withstand extremely high forces during dynamic towing (e.g. in sand). The line make it possible to drag stranded SUVs out of the toughest situations. Both ends eye with protective sleeve of abrasion resistant Polyester.

- double-ended eyes with protective sleeve
- up to 30% stretch under shock loading
- extremely easy to handle under working conditions

Colour



228
White

Material high-tenacity Polyamide

Construction 8-strand octoplait

Ref.	Ø mm	Length m	Breaking strength kg
01058-2401	24	5	9500
01058-2402	24	8	9500
01058-2403	24	12	9500



Offroad



LIROS Offroad Shackle

00146

LIROS Offroad Shackle combines exceptional flexibility and super light weight with enormous breaking load. Extremely abrasion-resistant protective sleeve specially developed for off-road use gives this shackle tremendous durability and massive holding power. A must for offroaders.

- *super lightweight and easy to handle*
- *high breaking load*
- *can't open accidentally under load*
- *reduces risk of injury*
- *premium LIROS quality*

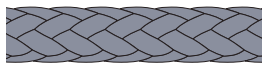
Material

HMPE

Protective sleeve

Polyester

Colour



316
Carbon

LIROS HSS
Heat Stretch System

LIROS LCS
LIROS Coating System

Ref.	Breaking strength kg	Working load kg
00146-0077	7000	4000
00146-0078	12000	7000
00146-0079	20000	12000

NEW



LIROS Rigger Bag

00146-0056

Premium splicing kit for the professional sailor. Contains all the splicing tools and accessories needed to work on all known LIROS yachting rope types.

Contains:

- 1 x LIROS Whipping needle
- 1 x Swedish fid
- 3 x Splicing needles (5.5-7.5-10 mm)
- 1 x LIROS brochure
- Splicing CD
- LIROS-Tape
- Dyneema® whipping twine
- 1 x pen
- 1 x lighter
- 1 x Wet Notes Notebook



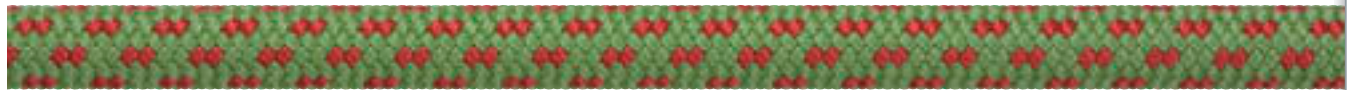
NEW**New Design****LIROS Rock****01003**

New design from LIROS. Powerful single rope for the classic climber. Perfect cost-benefit balance. Manufactured to EN 892. CE approved..

- *impact force (80 kg) 8 kN*
- *UIAA rated 8 falls (norm ≥ 5 falls)*
- *resistant against sharp edges*
- *weight: 65 g/m*
- *black midpoint marking*
- *durable easy handling*
- *twist-free*
- *manufactured to DIN EN 892*
- *dynamic stretch: 37%*
- *80kg stretch factor: 9.5%*
- *cover movement: 0 mm*
- *cover ratio: 36%*

Single rope: rope suitable for single-line climbing, providing optimal 'rope drag' control. For all difficult straight-line climbs, or easy routes with no belaying/rappelling points, requiring a single-line approach. A favourite among sport climbers.

Ref.	Ø mm	Length m
------	---------	-------------

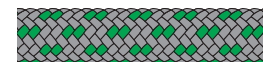
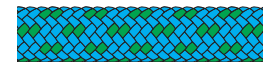
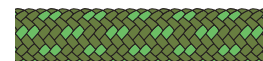
01003-1020 10,2 200**01003-1021** 10,2 60**01003-1022** 10,2 70**Material** high-tenacity Polyamide**Colours**194
Black-Green197
Black-Orange**LIROS Wall****01004**

New from LIROS. Powerful single rope specially designed for the indoor climber. Sturdy, abrasion resistant cover. Perfect cost-benefit balance.

- *impact force (80 kg) 8.4 kN*
- *UIAA rated 8 falls (norm ≥ 5 falls)*
- *extremely low core-cover movement*
- *extremely resistant against sharp edges*
- *weight: 71 g/m*
- *strong and easy to handle*
- *twist-free*
- *manufactured to DIN EN 892*
- *dynamic stretch: 36%*
- *80kg stretch factor: 8.5%*
- *cover movement: 0mm*
- *cover ratio: 47%*

100% longer useful life for indoor ropes! Today indoor climbing walls are nearly everywhere. With top roping, the rope is nearly continuously in the same location and is subject to frequent, small drops. LIROS has developed an abrasion-resistant cover to extend the life of the rope compared to standard climbing lines. Perfect cover-core attachment to eliminate the "sock effect" where the cover becomes shorter than the core. The cover must not be cutted!

Ref.	Ø mm	Length m
------	---------	-------------

01004-1050 10,5 200**01004-1051** 10,5 40**Material** high-tenacity Polyamide**Colours**081
Grey-Green015
Blue-Green328
Green-Red503
Olive-Light Green



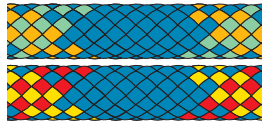
LIROS Sky

01002

Powerful, ultra-light weight single rope, designed for experienced/aggressive climbers. Manufactured according to EN 892. CE approved.

- impact force (80kg) 7.3 kN
- UIAA rated 10 falls (norm ≥ 5 falls)
- LIROS DryRope System
- extremely resistant against sharp edges
- weight: 63g/m
- black midpoint marking
- durable easy handling
- twist-free
- manufactured to DIN EN 892
- 80kg stretch factor: 9.7%
- cover movement: 0 mm
- cover ratio: 41%

Colours



- 502 Blue-Green-Orange
- 013 Blue-Yellow-Red

Single rope: rope suitable for single-line climbing, providing optimal 'rope drag' control. For all difficult straight-line climbs, or easy routes with no belaying/rappelling points, requiring a single-line approach. A favourite among sport climbers.

Ref. Ø	Length	
	mm	m

01002-0970 9.7 200

01002-0971 9.7 60

01002-0972 9.7 70

Material high-tenacity Polyamide

LIROS DRS
Dry Rope System



LIROS Sky Duo

01001

Newly developed LIROS 'half' rope for double rope applications. Lowest weight for advanced/aggressive climbers. Manufactured according to EN 892. CE approved.

- impact force (55kg on one rope) 5.1 kN
- UIAA rated 18 falls (norm ≥ 5 falls)
- LIROS DryRope System
- extremely resistant against sharp edges
- weight: 48 g/m
- black midpoint marking
- durable easy handling
- twist-free
- manufactured to DIN EN 892
- dynamic stretch: 35%
- 80kg stretch factor: 11.5%
- cover movement: 0 mm
- cover ratio: 38%

Colours



- 058 Fuchsia
- 059 Yellow

Double rope: Rope for double line systems, consisting of two sections with the lead climber securing the center. Two climbers can then each secure one section. To reduce drag, attach one section only. Great for mountain touring or for long climbing routes, where you want to rappel. Also recommended for securing unsafe points (e.g., while ice climbing). Connecting only one section will reduce impact force.

Ref. Ø	Length	
	mm	m

01001-0860 8.6 200

01001-0861 8.6 50

01001-0862 8.6 60

Material high-tenacity Polyamide

LIROS DRS
Dry Rope System

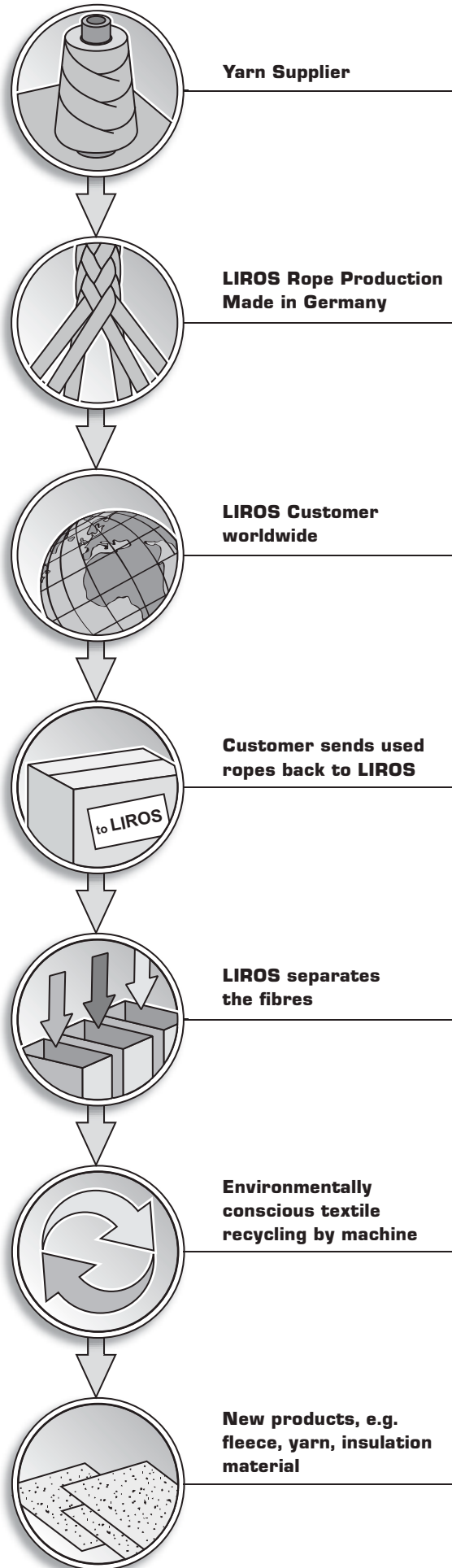




LIROS Recycling System



Recycling



Recommended Line Diameters

Regatta										
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 Pro 02005	-	-	8	8	8	10	10	12	12	14
V-Force 04000	6	8	8	10	12	-	-	-	-	-
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 01505	4	5	6	8	8	9	9	10	12	14
DynaSoft 02055	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	-	-	-
SuperClassic 1570	-	-	12	12	14	14	14	16	18	18
Herkules Color, Vision 00154/01550/01552	6	8	10	12	14	14	14	16	16	18
TopGrip 1540	6	8	10	12	14	14	14	-	-	-
Top-Cruising 00152	6	8	10	12	14	14	14	16	16	18
Top-Cruising-Color 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 Color 00172	6	8	10	12	14	14	16	18	18	-

For guy ropes, choose a heavier diameter

INFO

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

	page
14. Mooring line (not shown)	
LIROS Super Yacht DB	29
LIROS Handy-Elastic	30
LIROS Porto	31
LIROS Squareline PES	32
LIROS Moorex 12	33
LIROS Polyester	34
LIROS Nordic	35
15. Anchor line (not shown)	
LIROS Squareline PES	32
LIROS Handy Anchor	37

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

Mooring Lines											
	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 O1300	10	12	14	16	18	20	22	24	24	28
	Porto 00133	10	12	14	16	18	20	22	24	-	-
	Squareline O1047/O1049	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	10	12	14	16	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



LIROS GmbH

Sieggrubenstraße 7 · D-95180 Berg

Tel. +49 (0) 9293-8002-0 · Fax: +49 (0) 9293-8002-024

www.liros.com · info@liros.com

