




WORLD CLASS
YACHTING ROPES

FSE ROBLINE
WORLD CLASS YACHTING ROPES



Information about product specifications


Product nomenclature



cover material

core material
(type of weave)

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	gray-red
6	200	2,200	25	0713
				3405
				3410
				3415
				3614



Ø = diameter (mm)

The nominal diameter is always the maximum diameter

length = rope length (m)

The rope's length is measured taking EN ISO 2307 into account.
rope length: per spool or coil

MBL = minimum breaking loads

The value in daN (1 daN is about 1 kg) indicates the load at which the rope would break. The specified breaking loads are values determined in testing in our laboratory. In practical use, these values may deviate depending on the type of use. The breaking loads were determined for free lengths of rope and will be decreased by splices or knots. When defining a rope's dimensions, we recommend to apply a ratio of working load to breaking load of at least 1:5!

weight = weight per meter (g/m)

The specified values in grams relate to one meter of rope. The length of the rope can change during use. As a result, there may also be deviations from the specified weight.

Colors and order numbers

Example: the color "blue-gray-anthracite" with Ø 6 has the Item no. 3614

Identification Field of Use

Fall Halyard Fald

HALYARD

This line is ideally suited for use as a halyard.

Cross Over

CROSSOVER

This line is suited for use as both a halyard and a sheet.

Festmacher Dock Line Fortgänger

MOORING LINE

This line is suited for mooring all kinds of boats.

Schot Sheet Ecoute

SHEET

Due to its low abrasion and minimal kink, this line is ideally suited for use as a sheet.

Trimm Trim Trim

TRIM

This line can be used as a control line, stretcher, or allround rope.

Ankerleine Anchoring Ankring

ANCHOR LINE

This non-buoyant line is used for anchoring.

Halyards and sheets*

Your boat	Ø mm halyards			Ø mm sheets		
m	Spi	Genoa	Main	Spi	Genoa	Main
6-8	8	8	8	10	10	10
9	8	10	10	10	12	10
10	10	10	10	10	14	12
11	10	12	10	12	14	12
12	12	12	12	12	14	12
14	12	12	12	14	14	12
16	12	14	12	14	14	14
18	14	14	14	14	14	14
24	16	16	16	16	16	16

*When using lines made of Dyneema®, the diameter can be reduced by 2 mm! The specified values are experience-based values of FSE Robline®. They are average values which, however, can vary from one yacht type to another.

⚠ WARNING
The misuse of ropes can be dangerous. Our products may only be used for the purpose they are designed for. The user is responsible for the proper application and supervision of the rope's use and assumes the user is familiar with the necessary safety precautions. We recommend a splice as end connection for all of our products. For Dyneema® products (such as Ocean 3000 XG for example) a splice is the only option that should be used, as knots can come undone under a load.

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DEAR SAILINGENTHUSIASTS,

well-known international pro sailors have been collaborating with the experts of FSE Robline®, and, together, we have succeeded in maintaining our leading role in sailing and yachting cordage. Year after year. We are particularly proud of having been chosen to supply many participants at the upcoming Olympic Games in Rio 2016 with our equipment. Sailing crews from Austria, Kuwait, Qatar, Croatia, Brazil etc. rely on the expertise and the cordage of FSE Robline®.

This catalog brings to you the results of our intensive cooperation with various sailing industry experts and introduces our latest innovations, trends and developments as regards materials, cordage, and sailing accessories.

Tapered lines continue to gain in importance. Now, customers no longer need to cope with the laborious process of making this type of rope themselves. The product range for "Tapered Sheets" of FSE Robline® has been upgraded to also include such special lines, and in exceptional quality at that.

Even cruising sailors, who just enjoy sailing without the stress of a competition, have high expectations when it comes to the quality of their ropes. Our newly developed, accessible Sirius 1000 lines with Dyneema® close the gap between Performance ropes and Cruising-oriented lines. With them, users do not have to do without the characteristics of a high quality Performance line.

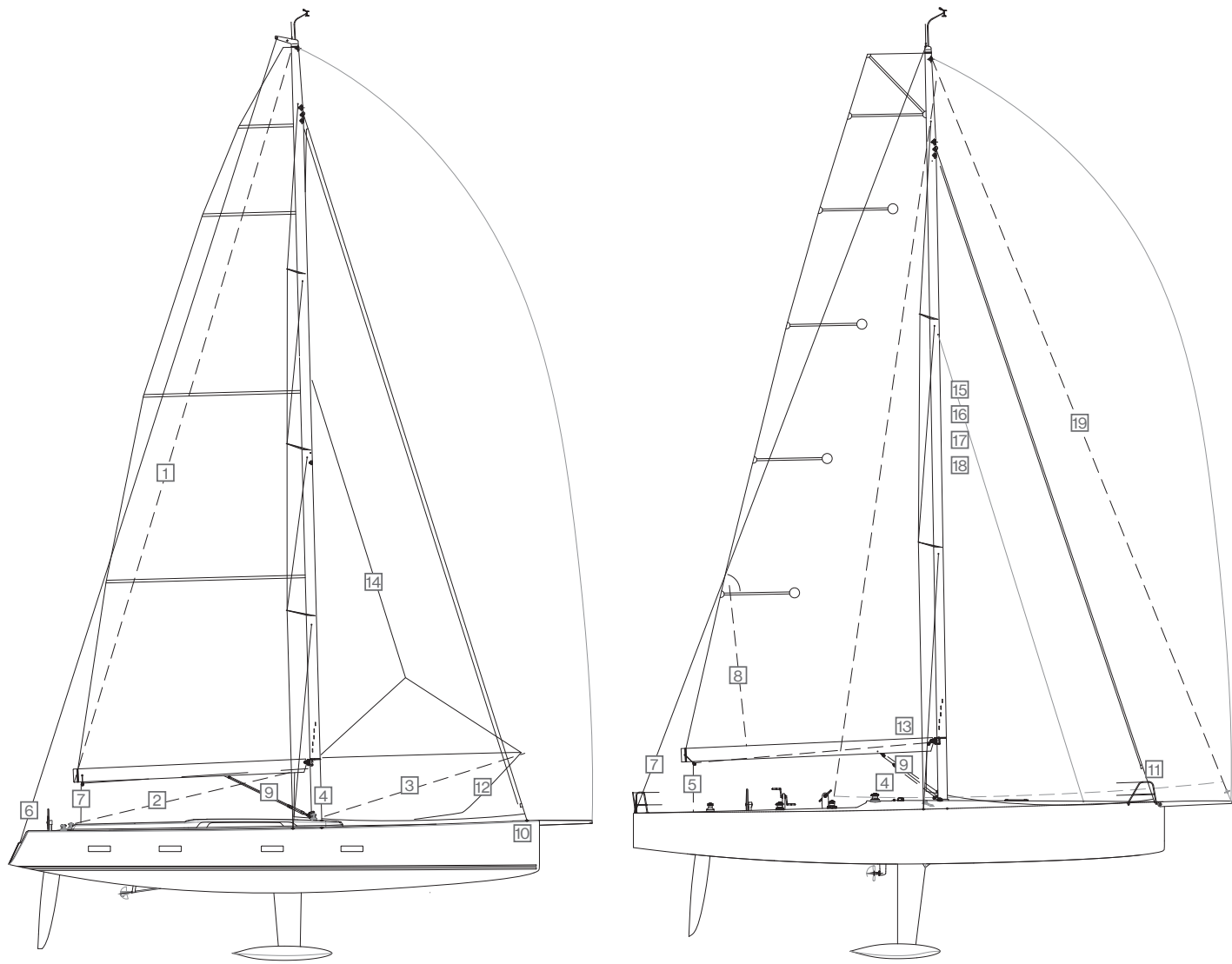
Yet, cordage from FSE Robline® is not only used at the Olympic Games. We are also the official supplier of lines for the most active high performance sailing classes. In the RC 44, GC32, and TP 52 classes, the world's best regatta sailors challenge and support us in the development of ropes that perform to the max in any situation. This catalog introduces to you several pro sailors who compete in these classes. They tell you about their successes in sailing and provide valuable pieces of advice.

We look forward to many interesting discussions and the lively exchange of ideas and information with a great number of sailing enthusiasts. Furthermore, we assure you that, whatever challenges you intend to confront, we will be happy to accompany you on your quest.

Your FSE Robline® Team

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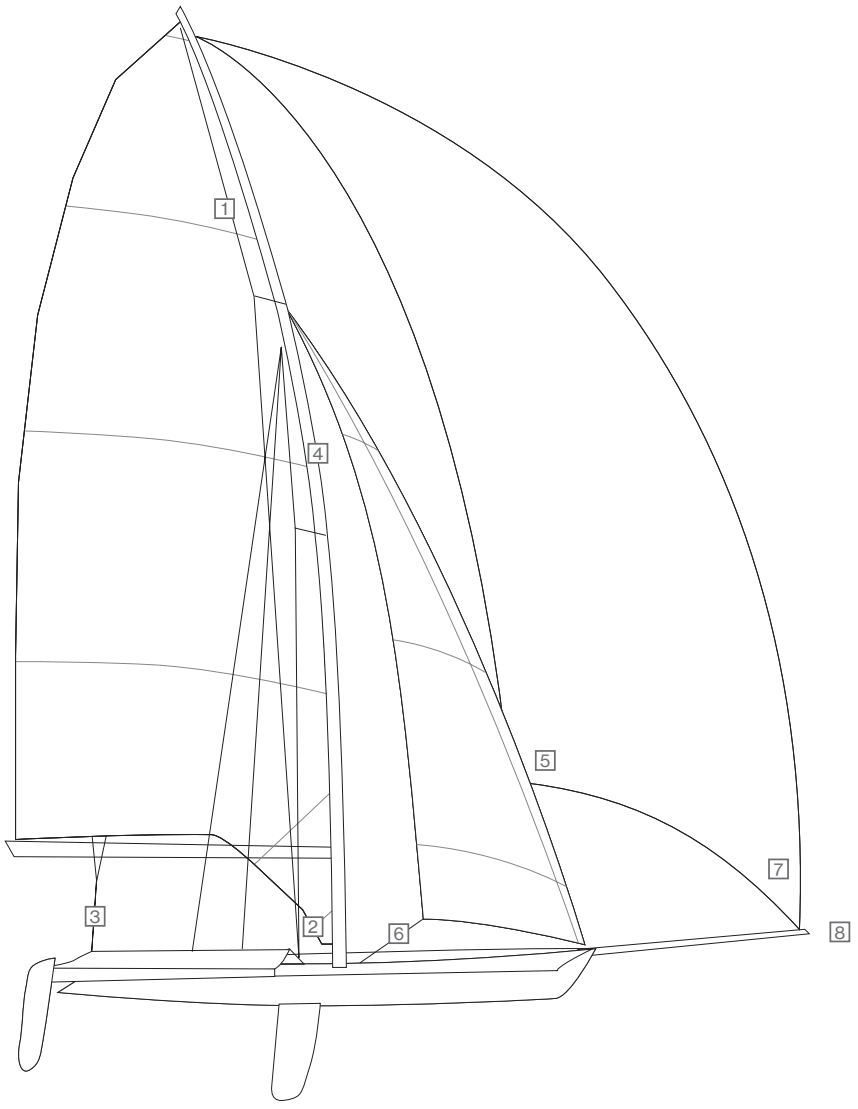


Typical fields of use

- A Racing
- B Regatta
- C Cruising
- D Dinghy & Sportsboats
- E Mooring & Anchor Lines
- F Sailmakers

Product groups

- Custom-made/Racing
- Performance
- Cruising
- Dinghy & Sportsboats
- Mooring & Anchor Lines
- Ready-made Products
- Allround Ropes
- Sailmakers
- Traditional Ropes
- Accessories



1 Boom lift

- A Custom-made
- B Admiral 3000
- C Sirius 500/300/1000
- C Orion 500/300
- C Neptun 500

2 Spi gennaker sheet

- A Custom-made
- A Globe 5000 MK2
- B Admiral 5000
- B Admiral 3000
- B Coppa 3000
- C Orion 500/300
- C Sirius 500/300

3 Spi guys

- A Custom-made
- B Globe 5000 MK2
- B Admiral 5000
- B Admiral 7000
- C Sirius 500/1000

4 Jib/Genoa sheet

- A Custom-made
- A Admiral 3000
- B Coppa 3000
- B Globe 5000 MK2
- B Admiral 5000
- C Orion 500/300
- C Neptun 500

5 Backstays/Runner

- A Custom-made
- A Ocean 3000 XG/5000/7000
- B Admiral 7000
- B Globe 5000 MK2
- B Admiral 5000

6 Mooring lines

- E Monte Carlo XG
- E Rio
- E Rapallo
- E Cormoran
- E Extension Mooring
- E Miami
- E Portofino
- E Riva.Flex

7 Main sheet

- A Custom-made
- A Globe 5000 MK2
- B Admiral 5000
- B Admiral 3000
- B Coppa 3000
- C Sirius 500/300/1000
- C Neptun 500

8 Reefing lines

- A Custom-made
- B Admiral 7000
- B Globe 5000 MK2
- B Admiral 5000

- C Sirius 500/1000
- C Orion 500/300

9 Boom vang

- A Custom-made
- B Admiral 5000/7000
- B Globe 5000 MK2
- B Admiral 3000
- B Ocean 3000 XG/5000/7000
- C Sirius 500/300

10 Anchor line

- E Monte Carlo XG
- E Rio
- E Rapallo
- E Bonifacio Winch
- E Riva.Flex

11 Furling line

- A Custom-made
- B Admiral 7000
- B Globe 5000 MK2
- B Ocean 3000 XG/5000
- B Dinghy Star
- C Sirius 500/300/1000

12 Spi boom downhaul

- A Custom-made
- B Ocean 3000 XG/5000
- B Globe 5000 MK2
- B Admiral 5000/7000
- C Sirius 500/300/1000
- C Orion 500/300

13 Cunningham

- A Custom-made
- B Admiral 7000/5000
- B Dinghy Star
- B Globe 5000 MK2
- C Sirius 500
- C Orion 500/300

14 Spi pole uphaul

- A Custom-made
- B Admiral 3000/5000/7000
- B Globe 5000 MK2
- C Sirius 500/300/1000
- C Orion 500/300

15 Jib/Genoa halyard

- A Custom-made
- B Admiral 7000
- B Globe 5000 MK2
- B Admiral 5000
- C Sirius 500/300/1000
- C Orion 500/300

16 Spi gennaker halyard

- A Custom-made
- B Globe 5000 MK2
- B Admiral 5000/3000
- C Sirius 500/300/1000
- C Orion 500/300

17 Code zero halyard

- A Custom-made
- A Admiral 7000
- B Globe 5000 MK2
- B Admiral 5000
- B Ocean 3000 XG/5000/7000

18 Main halyard

- A Custom-made
- B Admiral 7000
- B Globe 5000 MK2
- B Admiral 5000
- C Sirius 500/300/1000
- C Orion 500/300

19 Gennaker furling line

- F GFL Ultra

1 Main and gennaker halyards

- D Tapered Sheet
- D Dinghy Polytech
- D Dinghy Star Pro
- D Dinghy Star
- D Dinghy Star Pro
- D Dinghy Control
- D Ocean 7000
- D Ocean 3000 XG
- D Ocean 5000

2 Boom downhaul

- D Dinghy Polytech
- D 8 Plaited Dinghy
- D Dinghy Control
- D Ocean 7000
- D Ocean 3000 XG

3 Main sheet

- D Tapered Sheet
- D Dinghy Coppa
- D Coppa 3000
- D Dinghy Sheet
- D Dinghy Light
- D Super Dinghy Sheet

4 Jib halyard

- D Dinghy Polytech
- D Dinghy Star
- D Dinghy Star Pro
- D Dinghy Control
- D Ocean 7000
- D Ocean 3000 XG
- D Ocean 5000

5 Gennaker sheet

- D Tapered Sheet
- D Dinghy Sheet
- D Dinghy Light
- D Coppa 3000

6 Jib sheet

- D Tapered Sheet
- D Dinghy Polytech
- D Dinghy Coppa
- D Dinghy Sheet
- D Dinghy Light
- D Coppa 500

7 Tack line

- D Tapered Sheet
- D Dinghy Polytech
- D Dinghy Control
- D Dinghy Star
- D Dinghy Star Pro
- D Coppa 3000

8 Bow line

- D Albatros

Grand Prix Racing TP 52 Class

The TP 52 class is the formula 1 of ocean-going race yachts. The boats of this class must meet specific predefined dimensions. For example, they must not be longer than 15.85 m and feature a width between 3.95 and 4.4 m. The maximum weight of the 14-person crew must not exceed 1,273 kg. The regattas of the TP 52 class are said to be especially attractive. Most of their venues are in America and Europe. In 2014/2015, a complete range of FSE Robline® brand ropes was developed for the entire running rigging used in racing by TP 52 class boats. For half a year, the specialists behind FSE Robline® worked together with pro sailors in order to provide ropes that meet the latter's every need and expectation. For a TP 52 class boat, about 40 different ropes of diameters from 3 to 11mm are required.



© Max Ranchi

An interview with PIETRO MANTOVANI

Pietro Mantovani sets the sails for the Italian Gazprom Racing Team and is regarded as one of Italy's most experienced and successful sailors. In the following interview, he tells us what his greatest challenges in life are and how he prepares for his races.

Pietro, when did you start sailing? Sailing has been a part of my life since my childhood. More precisely, I have been in sailing for 24 years. I became a pro sailor at the age of 21.

This explains why you are regarded as one of the most experienced sailors. But you are also one of the most successful. Has there been any personal highlight in your career so far? Yes, in fact, I am looking back on many very satisfying years as a sailor. This doesn't make it easy for me to single out one achievement as the most important one. It may have been my participations at the America's Cup 2003 and 2007 as a part of the Italian team. Yet, also my two victories in the Congressional Cup 2010 and 2013 meant a lot to me, just like triumphing at the Worlds in 2014 in the RC44 class.

This makes us curious as to what a day in the life of such a successful sportsman looks like. In a nutshell, I start off my day with a run in the morning and a substantial breakfast. Then it's off to my boat. I check all the systems and discuss with my shore crew what we could do to make the boat faster yet. After all, our objective is to always deliver top performances. And this is why my expectations regarding my equipment are extremely high.

How do you prepare for a race? For me, personally, relaxation drills are most important to clear my mind. Because I am always pretty nervous before the start.

Is it true that sports is where you find your greatest challenges in life? Not necessarily. The greatest and best challenge in my life has been to accompany my children in growing up.

How does your family feel about your job as a professional sailor? My family supports me 100 percent in what I am doing. I am really lucky, and this is one of the reasons for my success. I owe a lot to my wife who is doing an awesome job of taking care of our family when I am not at home.

Last question: What are you particularly proud of? I would say the respect within the sailing community that I worked hard to gain through my successes.

Pietro, thank you very much for this interview.



»My expectations regarding the equipment are extremely high. Naturally, this also applies to my cordage. As far as I am concerned, FSE Robline® ropes are undoubtedly the best choice, especially because of their high abrasion strength and their great ease of handling. And, of course, because they are easy to process.«

Pietro Mantovani, Pitman/Rigger Gazprom Racing-Team, Italy

CUSTOM-MADES AND HIGH PERFORMANCE „TAPERED SHEETS“

In the development of new products, FSE Robline® continues to maintain close contact with regatta sailors who compete in the most challenging races. The results of our close cooperation with racing teams in the RC44, TP52, GC32, Extreme 40, M32 and Maxi classes clearly document our successful commitment to the racing segment.

Custom-mades

Customers who have special needs for their specific sailing project are given the chance to select from a variety of high-tech rope designs so as to obtain the best possible product for their individual needs. Please contact your competent country representative who will get you into

contact with our racing department and provide you with the best advice possible. We have individually configurable rope designs that can be provided with terminations and dimensioned to meet your specific requirements.

Available core materials:

- STS Ocean 5000
- SK78 Ocean 3000 XG
- SK99 Ocean 7000
- DM20 Ocean Stat20



Available cover materials (can be mixed):

- PBO
- Polyester
- Technora®
- Aramid

High Performance Tapered Sheets

Our new range of High Performance Tapered Sheets gives our customers access to the same technology that is used in racing by our development partners. This means that you can put together your custom-configured product from the specified core and cover materials. This allows you to adapt your cordage to the specific requirements of your yacht, define your individual colors and diameters, and, where necessary, make a change to the diameter – a taper.

Machine-tapered sheets can bridge differences in diameter of up to 5mm. Thus, there are almost no limitations to your choice of materials for core and cover.

Contact your FSE partner (see list of distributors on page 59) to obtain information regarding prices and prospective delivery times. Usually, delivery turnaround is a few weeks. The prices are determined on a case to case basis, depending on the diameter and the materials used.

In the Grand Prix regatta classes, but also in the Olympic classes and the Sportsboats classes, machine-tapered sheets are enjoying increasing popularity in order to achieve an even greater advantage in terms of wind resistance and friction in the block cascades.



Using our machine-tapered ropes provides significant advantages:

- ✓ Professional machine-tapering with even transitions
- ✓ Reduced weight and wind resistance of cordage
- ✓ Strong where it matters
- ✓ Improved handling
- ✓ Smaller line diameters generate less friction in the blocks/halyard sheaves, minimizing the required physical effort
- ✓ Less rope chaos on board

These benefits might just make the difference for you to claim victory!



High Performance for High Performer

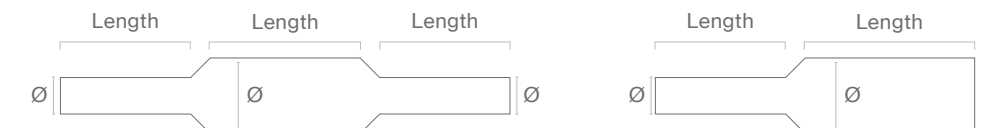
Cutting edge racing lines, made of premium quality fibers, top raw materials, and based on a wealth of racing experience.



Required specifications for ordering

Specifications in mm:

- ✓ diameter thick ropes Ø
- ✓ length thick ropes
- ✓ diameter thin ropes Ø
- ✓ length thin ropes
- ✓ color



Available diameters (mm):

- 3 on 5 4 on 10 6 on 8
- 3 on 6 5 on 8 6 on 9
- 4 on 6 5 on 9 6 on 10
- 4 on 8 5 on 10 6 on 12
- 4 on 9 5 on 12 8 on 12

Available core materials:

- STS Ocean 5000
- SK78 Ocean 3000 XG
- SK99 Ocean 7000
- DM20 Ocean STAT20



Available cover materials (can be mixed):

- Polyester
- Polyester Soft
- Technora®
- PBO

An interview with CHRISTIAN BINDER

Christian Binder has been one of the most well-known pro sailors in Austria for quite some time now. Apart from having taken part twice at Olympic Summer Games, he is also a European Champion in the Soling class and has 20 Austrian championship titles to his name. In this interview, he tells us about the most dangerous situations of his career and about his biggest successes.

Christian, you are one of the established names in the sailing community, not only in Austria. When was your first boarding? Well, it's been quite a while. If I am not mistaken, my first time was at the age of 12.

Plenty of time to celebrate victories. What were your biggest successes? Competing at the Olympics twice definitely belongs to the greatest highlights of my sailing career. And winning the European Championships in the Soling class can be mentioned in the same breath.

Now an equipment question: How long have you been working with FSE Robline® ropes? The answer to this is short and easy: Ever since FSE Robline® exists. The quality of their ropes impressed me from their very beginnings. Obviously, if that's the case, you don't really want to change.

In fact, you are not only a sailor, but also a sail maker. Is there anything that is important for both professions? Actually, there are quite a few common denominators. Mainly, however, that in both cases it is small things that make a difference. They decide whether you win or lose.

In which way does the cordage used influence one's choice of sail? The cordage doesn't necessarily have an influence on one's choice of sail. Rather, it is eminently important for the exact trim.

What was the most dangerous or challenging situation you had to master in your sailing career? Actually, the only dangerous moments I ever faced all happened in the early days of my sailing career due to a lack of experience and routine. The greatest challenge was definitely sailing in the RC44 class.

This brings us to the next question: What are you particularly proud of? Probably that I am still able to keep up very well with my competitors.

What general piece of advice would you like to share with sailors? Well, most of them know anyhow what is important in sailing. Maybe, one important piece of advice would be that in sailing one should always look at the whole picture and not get sidetracked by minor details.

Christian, thank you very much for this interview.



»For modern performance cruisers and racers, the cordage needs to master a balancing act that is quite challenging. In racing situations, it must live up to extreme high performance requirements. In recreational sailing, however, ensuring great ease of handling figures as the main priority. And all that for a good price/performance ratio. Come to think of it, it is incredible that there actually exists cordage that meets all these requirements. Thank you, FSE Robline®! «

Christian Binder, a former pro sailor/and now a sail maker, Austria

Performance

Modern performance cruising yachts shine through elegance and excellent sailing characteristics. However, those characteristics become available only if the cordage used also lives up to the high demands. For, only then will it be possible to ensure good yacht speeds and great ease of handling. A typical 50-foot performance cruising yacht needs 11 ropes with diameters from 8 to 14mm and lengths between 5 and 40m. The cordage for a typical C/R yacht must permit laid-back cruising, on the one hand, while also catering to sporty, race-like regatta conditions, on the other. Admiral 5000 or Globe 5000 MK2 from FSE Robline® were developed exactly with the requirements of this target group in mind.

ROPE PERFORMANCE INDICATOR

Performance

The values shown in the performance indicator are intended for orientation purposes. They should assist customers in finding the most suitable product for a certain application. Please bear in mind that these are relative values meant to point out the product-specific differences within a performance category. Thus, a higher value, for example, means that the relevant rope delivers the highest performance in this parameter as compared to the rest of the product family.

Comparison of the performance criteria of Performance ropes








Admiral 10000

Cross
Over



Ø	Length	MBL	Weight	Color/Item no.		
				gray-blue	gray-neon green	gray-neon orange
8	200	3,930	65	0285	0286	0287
10	200	5,830	80	0288	0289	0290
12	200	9,650	98	0248	0283	0284





Grand-prix-tested racing lines with Technora®/polyester cover for best abrasion resistance, easy to splice.

Cross
Over



Admiral 7000



Polyester 32

Dyneema® SK78

Ø	Length	MBL	Weight	Color/Item no.							
	mm			m	daN	g/m	white-red	white-navy	white-green	black-neon yellow	black-white
6	200	2,300	25		3518	3521	3519	0693	0688	3517	3520
8	200	3,900	42		3523	3524	3525	0694	0689	3522	3526
10	200	5,850	65		3528	3529	3530	0695	0690	3527	3531
12	150	8,100	89		3532	3533	3534	0696	0691	3536	3535
14	100	10,500	120		3537	3538	3539	0697	0692	3541	3540



Ideally suited for use as a halyard and for applications involving extremely high loads, Dyneema® SK78 core with tight 32-plait cover for optimized stability and elongation values.

Cross
Over



Admiral 5000



Polyester 24

Dyneema® SK78

Ø	Length	MBL	Weight	Color/Item no.				
				gray-red	green-neon green-gray	black-purple-anthracite	black-gray-anthracite	blue-gray-anthracite
6	200	2,200	25	0713	3405	3410	3415	3614
8	200	3,800	43	0714	3406	3411	3416	3615
10	200	5,800	62	0715	3407	3412	3417	3616
12	150	8,000	90	0716	3408	3413	3418	3617
14	100	10,500	124	0717	3409	3414	3419	3618







Featuring a 24-plait cover in combination with a strong Dyneema® SK78 core, this rope is easy to splice and taper, while offering optimal breaking load values at the same time.

Schot
Sheet
Ecoute



Admiral 3000

Ø	Length	MBL	Weight	Color/Item no.		
				red-anthracite	black-anthracite	silver-anthracite
6	200	1,600	23	3420	3426	3432
8	200	2,800	42	3421	3427	3433
10	200	4,200	60	3422	3428	3434
12	150	5,700	90	3423	3429	3435
14	100	7,400	120	3424	3430	3436
16	100	9,200	160	3425	3431	3437






Its modern cover construction makes this line ideal for use as a sheet on yachts of all sizes.

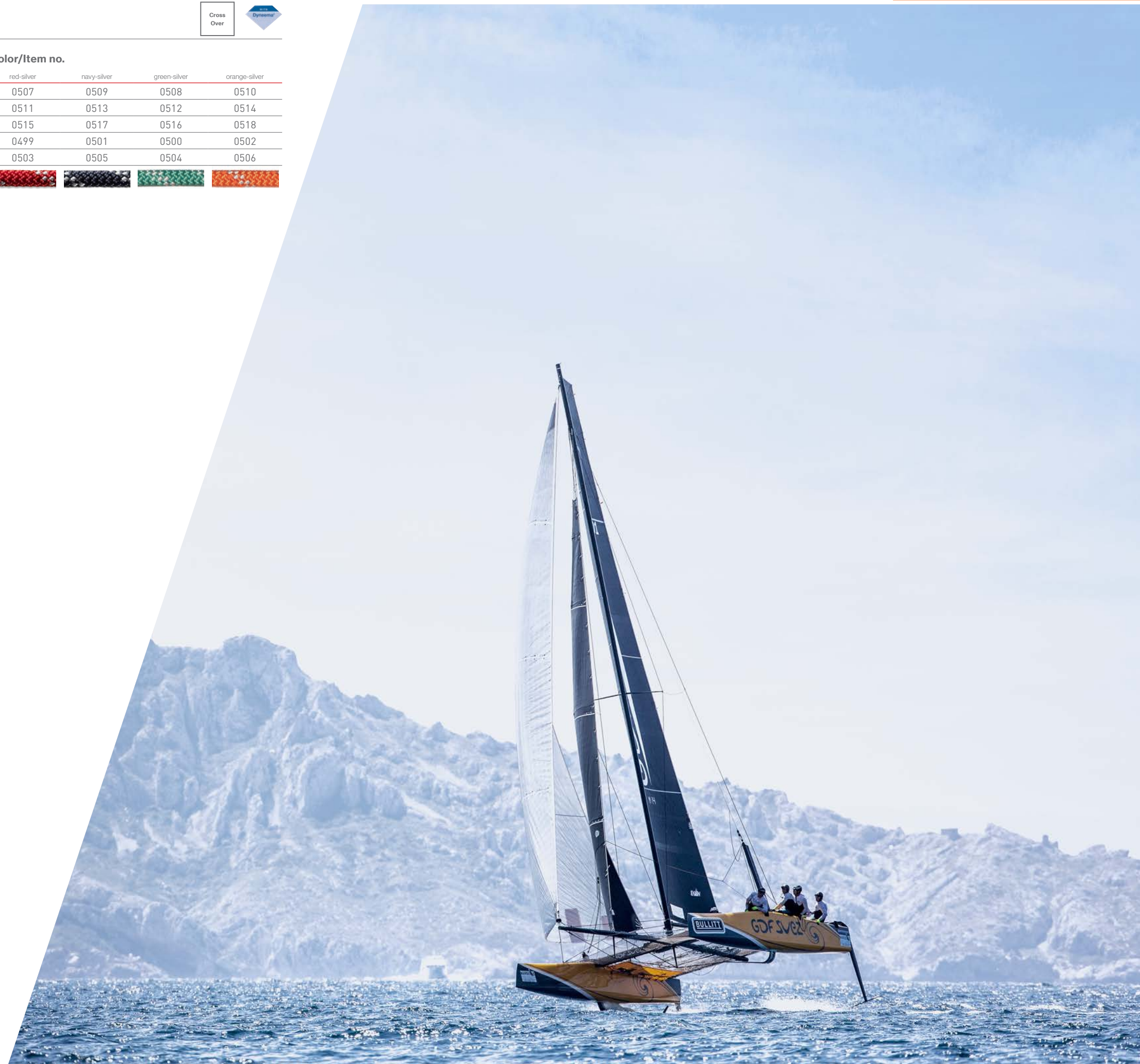
Globe 5000 MK2

Cross
Over



Ø	Length		MBL	Weight	Color/Item no.			
	mm	m			red-silver	navy-silver	green-silver	orange-silver
 Polyester 24 Dyneema®	8	200	1,800	42	0507	0509	0508	0510
	10	200	3,500	62	0511	0513	0512	0514
	12	150	4,900	88	0515	0517	0516	0518
	14	100	6,700	118	0499	0501	0500	0502
	16	100	9,000	148	0503	0505	0504	0506
								

A completely revamped allround product for performance oriented sailors; Dyneema® in its core ensures high breaking strength and minimal elongation.



© Sander van der Borch

ROPE PERFORMANCE INDICATOR

Performance

The values shown in the performance indicator are intended for orientation purposes. They should assist customers in finding the most suitable product for a certain application. Please bear in mind that these are relative values meant to point out the product-specific differences within a performance category. Thus, a higher value, for example, means that the relevant rope delivers the highest performance in this parameter as compared to the rest of the product family.

Comparison of the performance criteria of Performance ropes



Ocean 7000



Dyneema® SK99

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	
2	200	600	2.7	anthracite 2853
3	200	1,200	5.5	2854
4	200	2,000	9.6	2855
5	200	2,900	13.9	2856
6	200	4,000	21.4	2857



This line is made of Dyneema® SK99 high performance fibers and ideally suited for all applications involving high breaking loads and, at the same time, for all uses that require a product that is easy to splice. Its

typical field of use is where an enhancement of the properties of Ocean 3000 XG is needed.

STS Ocean 5000



Dyneema® SK78

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	
3	*	2,310	9	anthracite 3727
5	*	4,400	19	3728
7	*	7,700	36	3729
8	*	9,900	49	2800
10	*	12,300	64	2801
12	*	18,700	100	2802
14	*	22,000	116	2803

*Length on request



FSE Robline® employs STS - Stronger than Steel® cores for high performance applications, e.g., for cores of backstays and halyards used on race yachts such as TP52 and Mini Maxi. Developed by the experts at FSE Robline®, the special heat stretch process, which includes a defined cooldown phase during which the

rope's structure is defined, makes it possible to achieve an enormous increase in breaking strength coupled with minimal elongation. STS Ocean 5000 should be used wherever extreme demands need to be met.

Ocean STAT20 XG



Dyneema® DM20

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	
3	100	800	5	black 0477
4	100	1,600	8	0478
5	100	2,300	11	0479
6	100	3,200	17	0480
8	100	4,500	28	0481
10	100	7,100	42	0476



This Dyneema® high tech fiber is the first HMPE with "zero creep". This makes this fiber and products made of it so ideal for all applications

where a defined length is to be maintained under constant loading. The coating was optimized especially with maximum UV protection in mind.

Ocean 3000 XG



Dyneema® SK78 12

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	
2	200	400	2	red 3303
2,5	200	500	4	blue 3307
3	200	800	5	anthracite 3311
4	200	1,600	8	3315
5	200	2,300	11	3319
6	200	3,200	17	3323
8	200	4,500	28	3327
10*	150	7,100	42	3331
12*	100	9,500	54	3335

*on request



Dyneema® SK78 is a high performance fiber which many sailing applications build on.

The upgraded coating ensures good UV stability and enhances abrasion resistance.

Cruising

Cruising yachts and yachts with classic lines are not only appealing to the eye, but they also require running rigging solutions custom-tailored in terms of both appearance and performance. Both classic oldtimers and modern classics require special cordage for their unique requirements. Long distance sailors in turn are looking for relatively long-living solutions. FSE Robline® cordage can be fitted on square-rigged vessels and classic 12-meter yachts as well as on long distance cruising yachts. Our classic models, Sirius 500 and 300, are indestructible allround ropes employed with success by many cruising sailors. The latest addition, the newly developed Sirius 1000, closes the gap between the FSE Robline® Performance line and its Cruising products. This allows us, for the first time, to offer cordage featuring reduced elongation at a price/performance ratio typical of the Cruising product line.



© Onne van der Wal

An interview with MARTIN BREINER

Martin Breiner is not only a successful entrepreneur and marketing expert but also a passionate amateur sailor. Since his childhood he has sailed on various types of yacht, sometimes also in regatta races, and on one of the most successful classic yachts in the Caribbean.

Martin, it's been a while since you started to sail. What is the fascination of sailing for you personally?

When exactly did you start? Well, you said it, it's been a while – about 45 years to be precise. I am from Bregenz originally, and, like many other sailors, I gained my first experiences in an OPTI (Optimist class) dinghy.

You own a cruising yacht, which one? Only recently, I purchased a used IMPALA 48, a small-series yacht from Denmark with fantastic sailing performance.

When you sail in regatta races, which boat do you use? I count myself lucky to have been invited for quite some time now to sail on the "MARY ROSE", a Herreshoff 65 made in 1926. In the last two editions of the ANTIGUA Classic regatta, we claimed the victory in our race category, and in 2015 we even won every single one of the races.

Which lines do you use on your Impala? We are very happy with the new halyards. In view of the minimal elongation, the sails are in a much better position and it is easier to achieve a precise trim.

It gives me the chance to seek new vistas every day and, to me, this is what freedom is all about.

What is a must-have for you aboard your sailboat?

You mean, apart from my crew? Well, most of all a cheerful atmosphere, and full focus when I sail in a regatta. And, last but not least, quality cordage from FSE Robline®!

Does your family share your passion for sailing? Yes, because otherwise I wouldn't be able to leave port feeling happy and at peace with myself. My youngest son just finished his first OPTI course and is now also enthusiastic about sailing.

Do you ever get seasick? No, fortunately I haven't – this hasn't happened to me yet.

Thank you, Martin, for this interview.



» When sailing, what matters most to me is to enjoy it and have fun. This is why having comfortable, easy-to-handle ropes is so important to me. At FSE Robline®, halyards exhibit only minimal elongation, which is why they hardly ever need to be readjusted.«

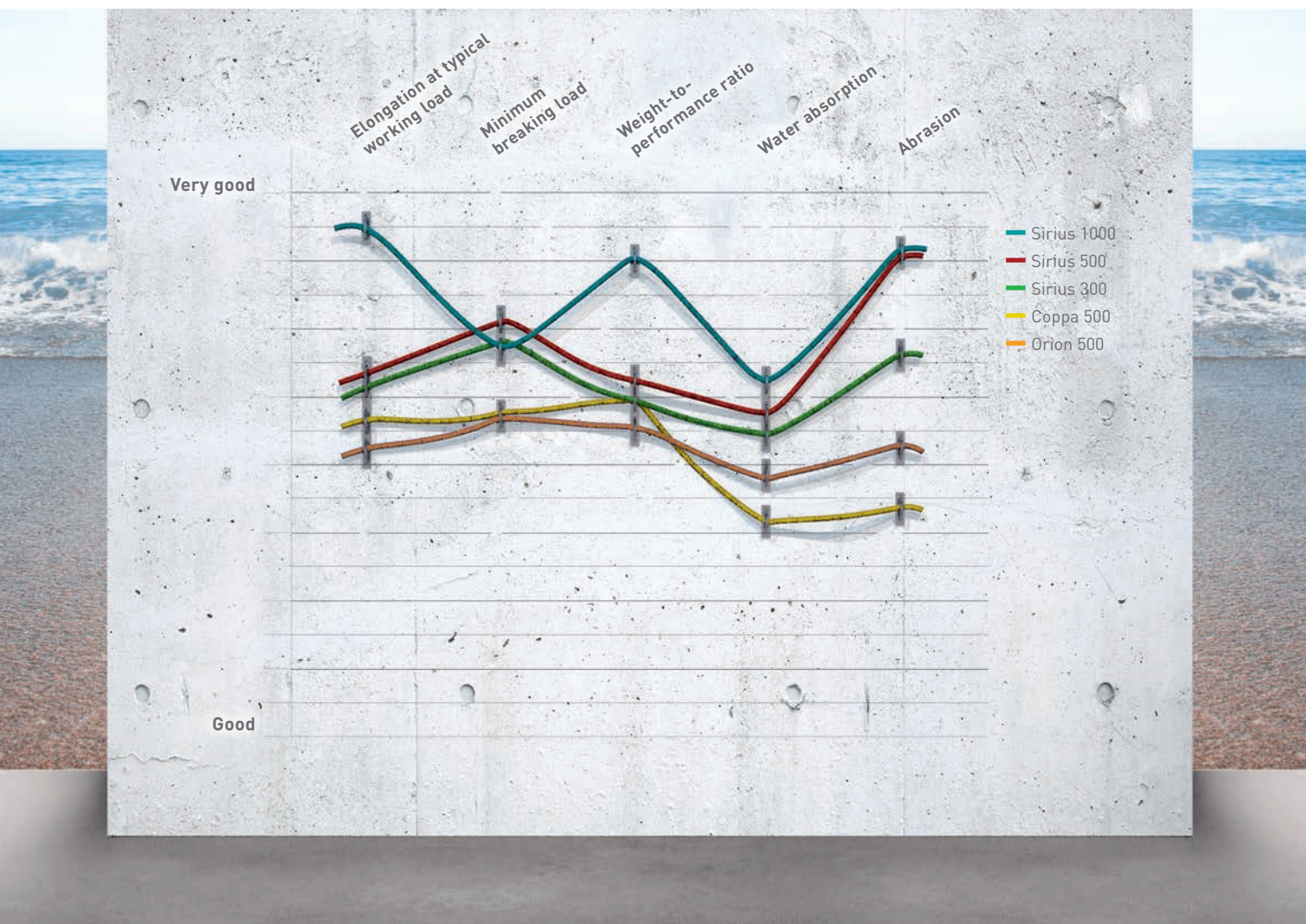
Martin Breiner, a passionate amateur sailor from Austria

ROPE PERFORMANCE INDICATOR

Cruising

The values shown in the performance indicator are intended for orientation purposes. They should assist customers in finding the most suitable product for a certain application. Please bear in mind that these are relative values meant to point out the product-specific differences within a performance category. Thus, a higher value, for example, means that the relevant rope delivers the highest performance in this parameter as compared to the rest of the product family.

Comparison of the performance criteria of Cruising ropes



Sirius 1000



Ø	Length	MBL	Weight	Color/Item no.			
				red	navy	green	black
8	200	1,500	35	0528	0527	0526	0525
10	200	2,400	67	0532	0531	0530	0529
12	150	3,100	73	0524	0523	0522	0521

Polyester 32

Dyneema® /XLF

This latest development of FSE Robline® closes the performance gap between the High Tech Performance and the previous Cruising products. Sirius 1000 combines several advantages of the Performance range products with a price/performance ratio known only from poly-

ester products. Furthermore, it achieves optimal elongation values at the typical working loads that ropes are exposed to on Performance Cruising yachts.

Sirius 500



Ø	Length	MBL	Weight	Color/Item no.			
				silver-red	silver-blue	silver-green	silver-black
4	200	550	12	3438	3445	3452	3459
5	200	850	20	3439	3446	3453	3460
6	200	1,150	27	3440	3447	3454	3461
8	200	1,800	49	3441	3448	3455	3462
10	200	2,800	71	3442	3449	3456	3463
12	150	3,800	103	3443	3450	3457	3464
14	100	5,000	140	3444	3451	3458	3465

Polyester 32

Polyester

The classic from FSE Robline® featuring the optimal characteristics of a double braided polyester rope – low elongation coupled with high stability.

Sirius 300



Ø	Length	MBL	Weight	Color/Item no.		
				white-red	white-navy	white-green
4	200	550	12	0579	0582	0581
5	200	850	20	0589	0591	0590
6	200	1,150	27	0597	0599	0598
8	200	1,800	49	0617	0619	0618
10	200	2,800	71	0633	0636	0634
12	150	3,800	103	0655	0658	0656
14	100	5,000	140	0580	0583	0584

Polyester 24

Polyester

The versatile allround sheet, ideal for use as a halyard, sheet, or trim line, excellent value for money.

Coppa 500



Ø	Length	MBL	Weight	Color/Item no.		
				black-red	black-navy	black-yellow
8	200	1,100	35	0190	0191	0192
10	200	1,900	65	0193	0194	0195
12	150	2,700	102	0196	0198	0199
14	100	3,600	118	0205	0207	0208

Polyester soft/Polyester 16

Polyester

The very soft cover and a strong polyester core make up an ideal sheet for manual maneuvering tasks on yachts featuring sheet systems with or without smooth-surfaced winches.

Orion 500

Trimm
Trim
Trim

Cross
Over



Ø	Length	MBL	Weight	Color/Item no.							
				red	navy	black	green	neon yellow-black	neon green-black	purple-black	pink-black
2	250	70	3	9000	9008	9016	9024	8100	8101	8102	8103
3	200	150	6	9001	9009	9017	9025	8104	8105	8106	8107
4	125	400	12	9002	9010	9018	9026	8108	8109	8110	8111
5	100	600	19	9003	9011	9019	9027	8112	8113	8114	8115
6	100	800	24	9004	9012	9020	9028	3279	3289	3293	3297
8	200	1,400	41	9005	9013	9021	9029	3280	3290	3294	3298
10	200	2,000	70	9006	9014	9022	9030	3287	3291	3295	3299
12	150	2,500	89	9007	9015	9023	9031	3288	3292	3296	3300

A line in modern, fresh colors and many diameters, easy to splice, and suited for various uses aboard any yacht.

Orion 300

Trimm
Trim
Trim

Cross
Over



Ø	Length	MBL	Weight	Color/Item no.					
				white-red	white-blue	white-green	white	white-yellow	white-black
4	200	400	12	1033	8993	1242	1772	2907	2909
5	200	600	19	1243	8994	1244	1773	2908	2910
6	200	800	24	1246	8995	1248	1774	8086	8087
8	200	1,400	42	1038	8996	1253	1775	8088	8089
10	200	2,000	70	1262	8997	1264	1776	8090	8091
12	150	2,500	89	1897	8998	8892	1889	8092	8093
14	100	3,800	120	1900	8999	8893	1890	-	-

A versatile allround rope in a traditional design; high UV resistance, longevity, and great ease of handling make this product a benchmark for many Cruising applications.

Neptun 500

Schot
Sheet
Ecoute



Ø	Length	MBL	Weight	Color/Item no.							
				white	red	navy-blue	white-red	white-neon green	white-black	black	
6	200	700	24	0664	0663	0662	3466	3471	3476	3481	
8	200	1,200	40	0667	0666	0665	3467	3472	3477	3482	
10	200	1,800	62	0669	0670	0668	3468	3473	3478	3483	
12	150	2,500	86	0673	0672	0671	3469	3474	3479	3484	
14	100	3,400	116	0676	0675	0674	3470	3475	3480	3485	

It classic design and pleasant-to-touch highly UV resistant cover are the main characterizing features of this allround rope for cruising yachts.





Dinghies & Sportsboats

In no other sailing discipline is the connection between the sailor and the boat so direct as in dinghy, skiff, and sportsboat sailing. All classes and boats associated with these categories have one thing in common: the stretchers, sheets, and halyards are mostly controlled by hand and trimmed continually. This fundamental prerequisite, in conjunction with the specific requirements of the various boat classes, creates the need for a comprehensive product portfolio. In the past season, sailors using FSE Robline® equipment triumphed in a great number of regatta races and championships. The feedback from these sailors and their findings obtained in countless training sessions are applied directly to the continuous development and optimization of our products.

© OESV Marsano

An interview with THOMAS ZAJAC & TANJA FRANK

Runners-up at the Tornado Worlds, Thomas Zajac and 420er Youth World Champion Tanja Frank have been a team since 2012 and will represent Austria in the Nacra 17 class at the Summer Olympics in Rio de Janeiro. In this interview, they tell us about their greatest successes so far and about FSE Robline®.

At what age do you have to start sailing to make it to the very top? There is no single correct answer to that. My first time alone in a boat was in 1992. That was at the age of seven. Tanja's first time in a boat was when she was 2.5 years old.

Both of you are still relatively young. Yet, you have already achieved impressive successes. Yes, I won the title of ISAF Youth World Champion, which arguably was one of my greatest successes so far. However, various podium finishes in the Nacra 17 in World Cup and European Cup regattas have also made me very happy. The greatest achievements in Thomas' career so far were arguably the titles of Junior World and European Champion and the runner-up spot at the Tornado World Champs. Of course, qualifying for Rio also belongs up there with our highlights.

How long have you been sailing with FSE Robline® ropes? I started to use them in 2002. In Tanja's case, due to her age, it was not so long ago.

Did you ever have to cope with extremely challenging situations? In Thomas' case, the nine-month break, which he had to take in 2009 following a serious climb-

ing accident, was such a situation. Since the two of us are sailing on fast Nacra 17 twin hull boats, challenging situations are practically part of our everyday lives. In strong-wind conditions and amidst high waves, you really need to have absolute control of your boat. For me, personally, the big challenges are always the "survival conditions" during a race.

What do you mean by "survival conditions"? What Tanja means are high waves and strong winds beyond 25 knots, conditions which we often encounter in races. To stay the course without harm to us or the equipment in such conditions, while pushing ourselves to the limit: this is always an absolute challenge.

And dangerous? Oh yes! If you sail with risk, the Nacra 17 boats are really incredibly fast. And definitely dangerous. Once, at Palma de Mallorca, Thomas and I even did a somersault in a regatta, shortly before the finish line. Luckily, nothing really happened to us.

Tanja and Thomas, we wish you continued success and good health. Thank you for this interview.



© Markus Schwarz

» The team behind FSE Robline® is made up of absolute professionals. They know exactly what matters when it comes to racing ropes. At the end of the day, we always get ropes with exactly those characteristics that are important to us.«

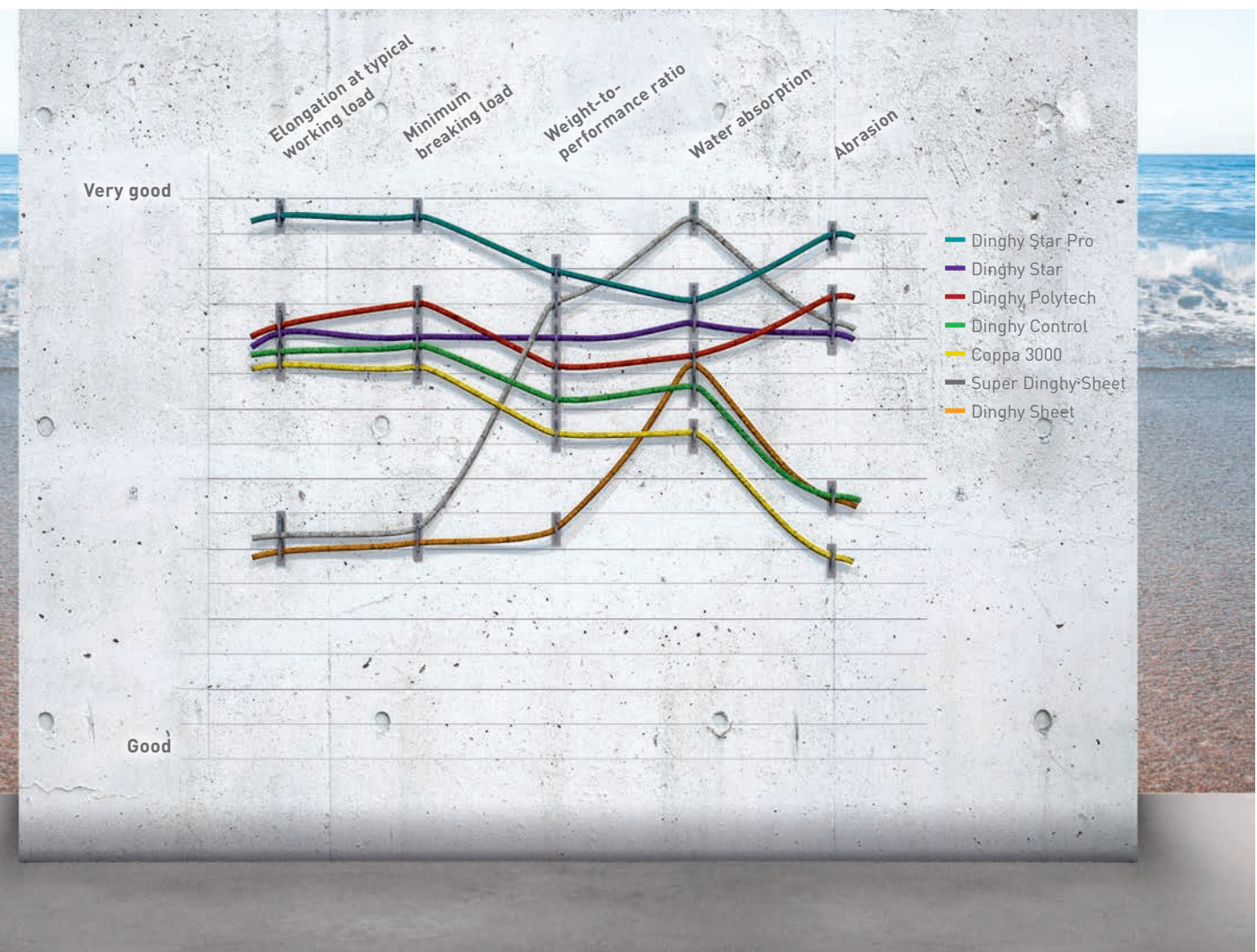
Thomas Zajac & Tanja Frank, pro sailors, Austria

ROPE PERFORMANCE INDICATOR

Dinghy & Sportsboats

The values shown in the performance indicator are intended for orientation purposes. They should assist customers in finding the most suitable product for a certain application. Please bear in mind that these are relative values meant to point out the product-specific differences within a performance category. Thus, a higher value, for example, means that the relevant rope delivers the highest performance in this parameter as compared to the rest of the product family.

Comparison of the performance criteria of Dinghy & Sportsboats ropes



Dinghy Star Pro



Ø	Length	MBL	Weight	Color/Item no.	
mm	m	daN	g/m	white-brown	
4	100	800	11	2667	
5	100	1,300	16	2668	
6	100	1,900	23	2669	

PBO/Dyneema® SK75 16/24/32 Dyneema® SK99

The standard product for fast skiff and dinghy classes; ideal for applications requiring highest abrasion resistance and minimal elongation. PBO and Dyneema® SK99 and SK78 make up this perfect combination.

Dinghy Star



Ø	Length	MBL	Weight	Color/Item no.		
mm	m	daN	g/m	blue	yellow	red
4	100	600	9.5	3490	3493	3496
5	100	1,100	15.0	3491	3494	3497
6	100	1,650	22.0	3492	3495	3498
8	100	3,300	39.0	3500	3501	3499

Dyneema® SK75/ Technora®/XLF 16/24/32/32 Dyneema® SK78

High abrasion resistance combined with a strong Dyneema® SK78 core make for an ideal allround rope that comes in various colors. From stretchers to sheets – Dinghy Star meets your every need.

Dinghy Polytech



Ø	Length	MBL	Weight	Color/Item no.		
mm	m	daN	g/m	blue-black	neon orange-black	neon green-black
3.5	100	500	9.2	0214	0215	0211
5.0	100	1,200	13.0	0220	0222	0216

Polyester/Technora® 16 Dyneema® SK78

Made of polyester and Technora®, the Polytech cover sets a standard in bigboat racing. The abrasion resistant 16-plait cover and a color-

coded Dyneema® SK78 core make up an easy-to-splice rope for use on skiffs and dinghies.

Dinghy Control



Ø	Length	MBL	Weight	Color/Item no.					
mm	m	daN	g/m	white-red	white-blue	white-green	white-yellow	white-orange	white-purple
1.7	100	150	2	2124	2129	2134	2139	9445	9446
3.0	100	450	7	2125	2130	2135	2140	8117	8120
4.0	100	700	11	2126	2131	2136	2141	8121	8122
5.0	100	1,200	16	2127	2132	2137	2142	8123	8124
6.0	100	1,650	23	2128	2133	2138	2143	8125	8126
Ø 1,7 - 4 mm									
Ø 5 - 6 mm									

Polyester 16 Dyneema® SK78

An allround high-tech control line that comes in various colors and diameters. The colored Dyneema® SK78 core also makes it easily recognizable in complex boat handling systems.

Coppa 3000

	Ø	Length	MBL	Weight	Color/Item no.		
	mm	m	daN	g/m	black-yellow	black-green	black-red
	6	200	1,700	20	3661	3663	3662
	8	200	3,600	36	3664	3666	3665
	10	200	5,600	54	3667	3669	3668
	12	150	8,100	85	3670	3672	3671

Polyester soft/XLF 16


Dyneema® SK78



Super grip combined with the highest breaking force. The 16-plait cover made from PES staple fiber and XLF is readily spliceable and easy to handle on board. The staple fiber used in the cover makes this


rope super grippy. Its 12-plait core made of Dyneema® SK78 ensures maximum breaking forces and low stretch.

Super Dinghy Sheet

	Ø	Length	MBL	Weight	Color/Item no.	
	mm	m	daN	g/m	white-orange	white-black
	5.5	100	425	19	0466	0465
	7.0	100	600	32	0468	0467
	8.5	100	750	40	0464	0463

Dyneema® SK78 /
Technora®/XLF

XLF



The sheet for sailors looking for a durable cover with minimal water absorption and low kinking tendency. Ideal for single-handed dinghies and all applications where a low weight matters.

Dinghy Coppa

	Ø	Length	MBL	Weight	Color/Item no.		
	mm	m	daN	g/m	white-neon orange	white-neon green	white-pink
	4	100	300	11	0156	0160	0161
	5	100	450	16	0162	0163	0170
	6	100	550	18	0171	0173	0175
	7	100	900	25	0183	0184	0189


Polyester soft/Polyester 16

XLF 16




Fresh colors and good handling combined with minimal water absorption – a modern allround line for small dinghies.

Dinghy Sheet

	Ø	Length	MBL	Weight	Color/Item no.	
	mm	m	daN	g/m	red-gray	black-gray
	6	200	425	19	2970	2971
	7	200	600	32	9032	2972
	8	200	750	40	2973	2974

Polyester/Polyamide 16


Polyester



The kink-free sheet of Olympic champions. Dinghy Sheet combines all the characteristics one could possiblewant in a sheet. It does not kink, provides excellent grip, and has a compact and round shape. What is more,


its polyester/polyamide cover ensures enhanced abrasion resistance.

Dinghy Light

	Ø	Length	MBL	Weight	Color/Item no.		
	mm	m	daN	g/m	black-yellow	red-yellow	blue-yellow
	4	100	250	8.0	9694	9688	9691
	6	100	500	16.4	9695	9689	9692
XLF 32	8	100	850	29.0	9696	9690	9693

XLF 32

XLF



The lightweight among dinghy sheets. Dinghy Light is a rope made up of an 8-plait XLF core and a 32-plait cover. It is used wherever minimal

water absorption is crucial. This makes it particularly suitable for use as a lightweight spinnaker sheet.

8-Plaited Dinghy Pro

	Ø	Length	MBL	Weight	Color/Item no.		
	mm	m	daN	g/m	red-gray	blue-gray	black-gray
	4	100	390	14.7	2838	2839	2840
	5	100	560	20.2	2841	2842	2843
Polyester/Polyamide 8	6	100	820	31.1	2844	2845	2846

Polyester/Polyamide 8

Polyester



8-Plaited Dinghy Pro is the result of continued development efforts. This becomes particularly noticeable in this rope's exceptional grip which makes it easier to control. In addition, 8-Plaited Dinghy Pro offers

better stability in the cleats. The proven benefits of 8-Plaited Dinghy such as compactness, dimensional stability, and minimal absorption of water were of course maintained.

8-Plaited Dinghy

	Ø	Length	MBL	Weight	Color/Item no.			
	mm	m	daN	g/m	red-silver	black-silver	blue-silver	white-silver
	4	100	390	13	9661	9664	9662	9663
	5	100	560	21	9666	9669	9667	9668
Polyester 8	6	100	820	30	9671	9674	9672	9673


Polyester 8

Polyester



A strong allround rope made of prestretched polyester, dimensionally stable, compact, and minimally water absorbing.

Albatros

	Ø	Length	MBL	Weight	Color/Item no.	
	mm	m	daN	g/m	red-blue	yellow-red
	6	200	350	14	3014	3077
	8	200	650	24	3080	3081
XLF	10	200	900	38	3110	3109

XLF



The ideal bowline or towline aboard dinghies or coachboats – buoyant, lightweight, and compact.

TAPERED LINES

The „Tapered Lines“ range of the FSE Robline® brand is characterized by a wealth of outstanding properties. These include ultimate abrasion strength, minimal elongation, great handling comfort, and an attractive appearance. This is made possible by the use of premium quality raw materials from select suppliers.

Overview

Field of use	Item no.	Material	Length			Diameter			Color
Opti Main Sheet 7 m	7818	PES	1.5	2.5	3.0	6.5	9.0	6.5	navy-silver
Opti Main Sheet 7 m	7408	XLF	1.5	2.5	3.0	6.5	9.0	6.5	red-silver
Spi Sheet 11 m [420]	7583	PES/Dyneema® SK78	3.1	4.8	3.1	4.0	6.0	4.0	green-silver
Spi Sheet 18 m [470]	7584	PES/Dyneema® SK78	4.5	9.0	4.5	4.0	6.0	4.0	red-silver
Spi Sheet 8 m	3682	PES/Dyneema® SK78	1.0	2.0	5.0	5.0	8.0	5.0	red-silver
Cat Sheet 16 m	7457	PES	10.0	6.0	-	9.5	6.5	-	navy-silver
Spi Sheet 18 m (H-Boat)	7466	PES/Dyneema® SK78	7.5	10.5	-	5.0	8.0	-	green-silver
Spi Sheet 18 m (H-Boat)	7474	PES/Dyneema® SK78	7.5	10.5	-	5.0	8.0	-	red-silver
Spi Sheet 20 m (Kite)	7472	PES/Dyneema® SK78	7.0	13.0	-	5.2	8.3	-	green-silver
Spi Sheet 20 m (Kite)	7471	PES/Dyneema® SK78	7.0	13.0	-	5.2	8.3	-	red-silver
Spi-Sheet endless	7483	PES/Dyneema® SK78	10.0	13.0	10.0	6.0	9.0	6.0	navy-silver
Generic Tapered Sheet 20 m	8135	PES/Dyneema® SK78	10.0	10.0	-	4.0	6.0	-	green-silver
Generic Tapered Sheet 20 m	8139	PES/Dyneema® SK78	10.0	10.0	-	4.0	6.0	-	red-silver
Generic Tapered Sheet 24 m	8136	PES/Dyneema® SK78	12.0	12.0	-	6.0	9.0	-	green-silver
Generic Tapered Sheet 24 m	8140	PES/Dyneema® SK78	12.0	12.0	-	6.0	9.0	-	red-silver
Generic Tapered Sheet 30 m	7541	PES/Dyneema® SK78	15.0	15.0	-	10.0	7.0	-	green-silver
Generic Tapered Sheet 30 m	7542	PES/Dyneema® SK78	15.0	15.0	-	10.0	7.0	-	red-silver
Generic Tapered Sheet 36 m	8138	PES/Dyneema® SK78	18.0	18.0	-	8.0	12.0	-	green-silver
Generic Tapered Sheet 36 m	8158	PES/Dyneema® SK78	18.0	18.0	-	8.0	12.0	-	red-silver
Spi Sheet 18 m [470]	0484	PES/Technora®/Dyneema®	4.5	9.0	4.5	4.0	6.0	4.0	red-black
Spi Sheet 11 m [420]	0483	PES/Technora®/Dyneema®	3.0	5.0	3.0	4.0	6.0	4.0	red-black



MOORINGLINES & ANCHORLINES

FSE Robline® brand yachting ropes are being used the world over and successfully so. In the case of mooring and anchor lines, what matters are abrasion strength, elongation, handling, and spliceability – properties that our FSE Robline® products incorporate to perfection.

Portofino



Polyester 12

Ø	Length		MBL	Weight	Color/Item no.	
	mm	m				
			daN	g/m	white	black
10	200		2,500	65	2834	3486
12	150		3,100	85	2835	3487
14	150		3,700	110	2836	3488
16	150		4,500	140	2837	3489

The mooring line offering ultimate abrasion resistance. In view of its great success, Portofino is now available in an even greater variety of diameters. Its main benefits are its extremely high abrasion resistance

and excellent stretch values. This mooring rope is also highly resistant to friction, and, thanks to high quality workmanship, it remains flexible in use.

Riva.Flex



Polyester 16

Polyester

Ø	Length		MBL	Weight	Color/Item no.	
	mm	m				
			daN	g/m	gray	black
10	200		2,400	69	3129	3164
12	150		3,000	98	3130	3165
14	100		4,200	128	3138	3167
16	150		4,900	165	3163	3168

Excellent stretch characteristics bring peace of mind on board. Riva.Flex is FSE Robline®'s top-of-the-line product in the mooring rope segment. By using premium quality materials for its core and cover, we achieved unparalleled stretch and abrasion characteristics that ensure

your peace of mind on board. The rope's cutting edge double weave consists of a polyester core and cover. Riva.Flex is easy to splice, UV resistant, and thus very durable.

Rio



Polyester 24

Polyester

Ø	Length		MBL	Weight	Color/Item no.		
	mm	m					
			daN	g/m	white-black	navy	black
8	200		1,400	42	1032	9033	9045
10	200		2,000	69	1123	9034	9046
12	150		2,800	97	1862	9035	9047
14	100		3,900	127	1863	9036	9048
16	150		4,500	163	1906	9037	9049
18	100		5,500	196	1129	9038	9050
20	100		6,600	260	1130	9039	9051
24*	200		10,000	384	7946	9041	9053
28*	120		13,500	455	7948	9043	9055
32*	165		15,600	610	7949	9044	9056

*coil

Kink-free mooring rope for lovers of stylish design. Rio comes in a variety of diameters and colors and excels due to its immense resistance to

abrasion and its exceptional grip. Rio also impresses its users with its high breaking strength, UV resistance, and ease of splicing.

Monte Carlo XG



Polyester 32

XLF

Ø	Length		MBL	Weight	Color/Item no.		
	mm	m					
			daN	g/m	white-gold	white-black	silver
9	150		1,600	51	9705	9706	2872
11	150		2,200	73	9588	9589	2873
13	150		3,000	98	0291	9591	2874
15	150		4,000	124	9592	9593	2875
17	150		4,800	155	9707	9708	2876

Highest quality with excellent stretch characteristics. Monte Carlo XG is the perfect match for boaters looking for modern design paired with

top functionality. Excellent grip, high breaking strength, UV resistance, and best spliceability are only a few of its many advantages.

Rapallo



Polyester 3

Ø	Length		MBL	Weight	Color/Item no.		
	mm	m					
			daN	g/m	white	blue	anthracite
6	200		750	24	1052	7364	3702
8	200		1,200	43	1655	7365	3703
10	200		1,950	68	1054	7366	3704
12	150		2,700	94	1860	7367	3705
14	100		3,900	133	8470	8469	3706
16	70		4,600	163	8472	8471	3707
18	70		5,700	212	8582	8458	-
20	100		7,000	244	1673	7371	-
24*	100		10,200	351	1675	7540	-
28*	250		13,500	490	7940	7934	-
32*	125		15,300	620	7942	7936	-
36**	200		-	-	7943	7937	-
40**	150		-	-	7944	7938	-

*coil / **on request

The classic among mooring ropes featuring high abrasion resistance. Made of Polyester, the laid 3-strand Rapallo boasts excellent stretch characteristics, high abrasion resistance,

and highest UV resistance. Unsurprisingly, it has become one of the all-time classics among mooring and anchor ropes over the years.

Cormoran



XLF 3

Ø	Length		MBL	Weight	Color/Item no.		
	mm	m					
			daN	g/m	navy	black	white
6	200		500	17	9065	9073	3169
8	200		900	29	9066	9074	3028
10	200		1,300	43	9067	9075	3049
12	150		1,800	59	9068	9076	3270
14	100		2,300	80	9069	9077	3273
16	70		3,000	106	9070	9078	1905
18	70		3,500	136	9071	9079	8581
20	100		4,000	148	9072	9080	3190

Highly elastic, floatable, twisted mooring rope. Offering excellent value for money, Cormoran is perfect especially for those looking for an inexpensive mooring rope. Made of XLF, this twisted 3-strand mooring

rope is dirt repellent, extremely lightweight, floatable, and does not absorb water.

READY-MADE PRODUCTS

Ready-made products make your life easier. Ready for use and self-explanatory, they do not require any additional, time-consuming customization. Pioneers in this segment, FSE Robline® Ready-made products excel, just like the rest of our vast product portfolio, through their high quality and impeccable workmanship.

3S Sirius 300 with soft shackle

Schot
Sheet
Ecoute



Ø	Length	MBL	Weight	Boat length	Color/Item no.	
mm	m	daN	g/m	feet	white-navy	white-red
10	18	1,450	71	29 – 33	0631	0632
12	22	2,000	103	34 – 42	0652	0653



Technical data: Excellent abrasion resistance due to the 24-plait cover and low stretch are its hallmark characteristics. Premium quality PES fibers are used in the core, creating a perfect overall appearance.

3S Sirius 500 with shackle

Fall
Halyard
Fald



Ø	Length	MBL	Weight	Boat length	Color/Item no.		
mm	m	daN	g/m	feet	silver-red	silver-blue	silver-black
8	30	1,800	49	<28	2259	2267	2385
10	35	2,600	71	29 – 33	2260	2268	2386
12	40	3,600	103	34 – 42	2261	2269	2387



Technical data: Sirius 500 consists of a highly abrasion resistant 32-plait polyester cover and an 8-plait core. Its Dyneema® splice makes sure that the breaking loads are utilized to the full extent possible.

3S Sirius 300 with snap shackle

Fall
Halyard
Fald



Ø	Length	MBL	Weight	Boat length	Color/Item no.		
mm	m	daN	g/m	feet	white-red	white-navy	white-green
8	30	1,800	49	<28	0614	0616	0615
10	35	2,600	71	29 – 33	0628	0630	0629
12	40	3,600	103	34 – 42	0649	0651	0650



Technical data: Excellent abrasion resistance due to a woven 32-plait cover and low stretch are its hallmark characteristics. Premium quality PES fibers are used in the core, creating a perfect overall appearance.

Productbenefits:

- ✓ ready for use
- ✓ self-explanatory
- ✓ require no additional time-consuming customization
- ✓ no short lengths

Rapallo/Eye 250mm



Rapallo/Eye 350mm



Ø	Length	Color/Item no.		
mm	m	white	navy	anthracite
10	4	9718	9722	-
10	6	8351	7690	3689
10	10	8350	-	3690
12	4	9719	9723	-
12	6	8353	7607	3691
12	10	8352	7608	3692

Ø	Length	Color/Item no.		
mm	m	white	navy	anthracite
14	4	9720	9724	-
14	6	8355	7463	3693
14	10	8354	7609	3694
16	4	9721	9725	-
16	6	8357	7465	3695
16	10	8356	7464	3696

Rapallo/Thimble: plastic material



Rapallo/Thimble: stainless steel



Ø	Length	Color/Item no.	
mm	m	white	navy
8	40.0	5171	-
10	2.5	8343	8702
10	4.0	8344	8701
10	40.0	5172	-
12	2.5	8345	7602
12	4.0	8346	7605
12	40.0	5173	-
14	2.5	8347	7604
14	4.0	8348	7601
14	40.0	5174	-
16	4.0	8349	7606
16	40.0	5175	-

Ø	Length	Color/Item no.
mm	m	white
8	20	1657
8	30	1658
10	20	1660
10	30	1661
12	30	1663
14	30	1668

Twisted fender lines



Ø	Length	Color/Item no.		
		white	navy	anthracite
6	1.5	9322	9324	3697
6	2.0	9323	9325	3698
8	1.5	9326	9328	3699
8	2.0	9327	9329	3700
10	2.0	9330	9331	3701

Rio/Eye 350mm



Ø	Length	Color/Item no.	
		black-white	navy
14	7.0	-	8706
14*	10.0	1186	9829
16	8.0	-	8705
16	10.0	1392	-

*with chafing protection

Braided fender lines



Ø	Length	Color/Item no.	
		white	navy
6	1.5	9744	9748
6	2.0	9745	9749
8	1.5	9746	9750
8	2.0	9747	9751

Rio/Eye 250mm



Ø	Length	Color/Item no.	
		black-white	navy-blue
8	5.0	1184	-
10	6.0	1189	8708
10	10.0	9533	-
12	6.0	-	8707
12	7.0	1372	-
12*	10.0	1185	9827

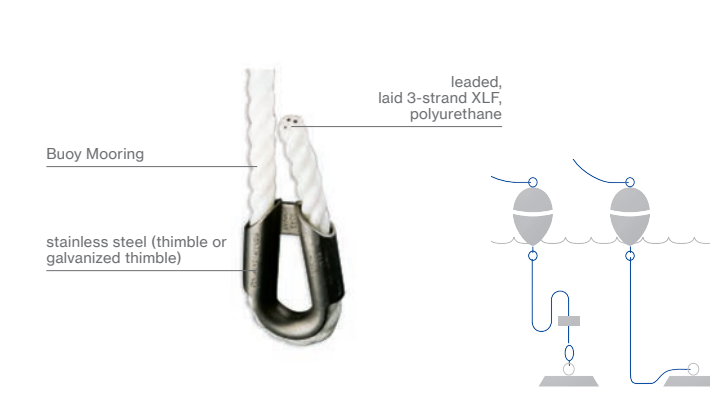
*with chafing protection

Rio/Thimble: stainless steel



Ø	Length	Color/Item no.
10	30	1367
12	20	1376
12	30	1377
14	30	1128

Buoy Mooring Line



Ø	Length	MBL	Weight	Color/Item no.		
				Buoy Mooring Line	Nirosta Thimble	Galvanized Thimble
20*	110	3,700	350	1800	5087	5178
24*	110	5,300	434	7709	5227	5228
32*	110	9,000	594	7153	5176	-

*coil

The attachment system for mooring ropes. The technical features of Buoy Mooring Line give it a decisive edge over conventional anchor chains. Provided with a special coating, Buoy Mooring Line is unsusceptible to algae and mollusk growth.

Bonifacio Winch



Ø	Length	MBL	Weight	Color/Item no.	
				white	
12	30	1,600	240	8464	
12	50	1,600	240	8465	
14	30	2,000	350	8562	
14	50	2,000	350	8466	
16	50	2,400	378	8524	

Anchoring without a bow roller – innovation at its finest. Developed for use with anchor winches, Bonifacio Winch features a leaden core that runs along the entire length of the rope. This design permits horizontal dragging of the anchor, enhances its retention power, and also dampens the boat's movements. The spliced-in stainless-steel thimble permits quick fastening of the anchor. Delivered in a practical storage bucket, it is easy to stow aboard your vessel. When making Bonifacio Winch, great importance was attached to the use of premium quality materials for both cover and intermediate cover. PES fibers keep the Polyurethane-coated core from slipping out. This way, the rope is protected against corrosion, and the environment is protected, as well.

Poseidon



Ø	Length	MBL	Weight	Color/Item no.	
				white	
10	50	1,700	-	2661	
12	50	1,900	-	8526	
14	50	2,600	-	8527	
16	50	3,700	-	8528	

available on request: 10mm - 30m, 12mm - 30m, 14mm - 40m

Leaded anchor rope meeting highest demands. In the case of Poseidon, lead inserts are integrated into the core over one third of its total length, which makes it easier to drag the anchor horizontally and enhances its retention power. In addition, the rope becomes easier to lift. Poseidon is delivered in a bag with a spliced-in stainless steel thimble. A high quality PES cover made out of a 16-plait weave as well as an intermediate cover also consisting of PES keep the lead insert from slipping out from the rope. A polyurethane coating affords additional protection on the insert.

Extension Mooring

Ankerleine
Anchoring
Ankring



Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	black
12	6	2,430	-	7363
14	6	2,900	-	1798
16	6	4,100	-	1799

The mooring rope with shock absorption The brilliantly integrated shock absorption system of Extension Mooring is what makes this polyamide mooring rope so unique. The integrated shock absorber gives Extension Mooring excellent stretch characteristics and makes it the ideal permanent mooring solution in harbors.

Miami

Festmacher
Dock Line
Fortejning



Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	black navy red
12	6	2,700	67	2917 2886 2877
14	6	3,200	96	2918 2887 2878
16	6	4,400	119	2919 2888 2879



Innovative mooring rope with shock absorber. Miami combines high abrasion resistance with good stretch characteristics and a shock absorber. Made of premium quality 12-plait Polyester, the rope is provided with an integrated heavy-duty rubber shock absorber, thus ensuring optimum shock absorption characteristics. The integrated eye splice readies Miami for instant use.

Wire Lock



Ø	Length	Color/Item no.
mm	m	black red-black
9	1.0	7811 -
9	1.5	9713 9715
9	3.0	7700 9585
9	5.0	7698 9587

Security without scratching and dents. Wire Lock's backbone is a 7 x 19 stainless steel wire around which a 32-plait PES cover is braided that prevents abrasion and protects the core from UV-radiation. The eyes are protected by a rubber sleeve.

Mooring rope set



Ø	Length	Eye splice	Color/Item no.
mm	m	mm	black
9	4 pcs. 4m / 2 pcs. 10m	250	3583
11	4 pcs. 4m / 2 pcs. 10m	250	3584
13	4 pcs. 6m / 2 pcs. 10m	350	0455
15	4 pcs. 6m / 2 pcs. 10m	350	0456

Mooring ropes now available in a handy storage box. The Mooring Rope Set consists of 6 mooring ropes in two different lengths. The various mooring ropes are provided with a spliced eye having a diameter of 250mm and 350mm, respectively. The set comes in a handy storage box.

ALLROUND ROPES

Floating Security Line



XLF

Easy to spot security rope made of XLF. Floating Security Line is made of a 16-plait XLF hollow weave. This makes it buoyant and easy to splice. Signal colors make it highly visible.

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	
				yellow/red
8	200	700	21	3015
10	200	900	33	3016

Polyester 16



All-purpose rope with good resistance to abrasion and stretch values. 16-plait PES cover. Twisted and, from diameters of 4mm, 8-plait core.

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	
				white
2.0	400	100	2	7770
2.5	280	150	5	7769
3.0	200	220	6	1013
4.0	200	370	10	1016
5.0	200	500	17	1019
6.0	200	600	22	1022

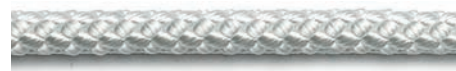
Polyester 8



Low-stretch, grippy 8-plait all-purpose polyester rope.

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	
				white plastic card 20m plastic card 50m
1	600	40	1	7771 - -
2	400	90	2	7772 - -
3	200	180	4	1126 3120 3121
4	200	310	7	1110 3122 3123
5	200	450	13	1736 - -
6	200	550	19	1021 - -
8	200	950	37	1024 - -
10	200	1,500	54	1025 - -

Polyamide 8



Durable 8-plait all-purpose polyamide rope.

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	
				white
1.0	600	40	1	7762
1.5	500	60	1	7761
2.0	400	80	2	7764
2.5	280	120	3	7763
3.0	250	180	5	7765
4.0	250	310	7	7766
5.0	250	510	12	7767
6.0	100	740	18	0138
8.0	200	1,210	33	0018

XLF 8



Buoyant 8-plait all-purpose XLF rope with high stretch.

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	
				white plastic card 20m plastic card 50m
3	500	100	3.0	3001 3091 3090
4	500	200	5.4	3002 3097 3092
5	200	320	9.0	3004 - -
6	200	450	16.0	3008 - -
8	200	650	27.0	3009 - -
10	200	1,100	40.0	3010 - -

Polyamide 16 Start



Specifically developed as an engine starter rope. Characterized by high abrasion resistance and minimal stretch. Featuring a 16-plait PA cover and an 8-plait PA core.

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	
				white
3.0	200	210	5.7	7760
3.5	100	290	8.8	0034
4.0	100	310	10.3	0035
4.5	100	400	12.0	0036
5.0	100	450	13.0	0037

Fully committed to every type of use

In manufacturing processes that define the latest state of the art, we make lines that are ready for anything.

SAILMAKERS

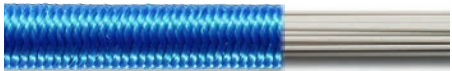

Dyneema® rubber line



 <div>Dyneema® SK78</div> <div>Rubber</div>	Ø	Length	MBL	Weight	Color/Item no.				
	mm	m	daN	g/m	white				
	3	100	44	6	0447				
	4	100	89	13	0448				
	5	100	97	17	0449				
	6	100	105	26	0450				
	8	100	170	47	0451				
	10	100	260	85	0452				

Newly developed product which, due to the excellent characteristics of Dyneema® fibers, is extremely abrasion resistant, while keeping the rubber core from being overstretched. This rubber line is an indispensable product for modern skiff and catamaran classes.

Rubber line

 <div>Polyester</div> <div>Rubber</div>	Ø	Length	MBL	Weight	Color/Item no.				
	mm	m	daN	g/m	white-red	black	blue	yellow	red
	3	250	28	6	7738	9081	-	-	-
	4	200	56	13	7739	9082	-	-	-
	5	100	60	17	5159	5058	3355	-	3354
	6	100	66	25	5160	9083	3356	-	-
	7	200	88	37	3340	2935	-	-	-
	8	100	111	45	5161	9084	3357	-	-
	10	100	166	81	5162	9085	-	-	-
	3	100	-	-	-	-	3350	3349	3348
	4	100	-	-	-	-	3352	3351	3353
									

Rubber line for high standards. The cover of the Rubber Line is made of highly abrasion resistant polyester, while its core consists of high quality rubber. This combination makes the rope compact, stable, and durable.

GFL Ultra

 <div>Special construction</div>	Ø	Length	MBL	Weight	Color/Item no.				
	mm	m	daN	g/m	black				
	9	*	2,680	77	0486				
	11	*	3,330	130	0498				
	13	*	4,450	180	0487				

*on request

GFL Ultra is an entirely newly developed special product for use with rollable flying foresails. Due to its special, innovative construction, it transmits the torsional forces of the rolling mechanism directly along the entire length of the luff.


Profile line

 <div>Polyester 16</div> <div>Polyester</div>	Ø	Length	MBL	Weight	Color/Item no.				
	mm	m	daN	g/m	white				
	3.0	200	150	7	1402				
	4.0	200	220	10	1403				
	4.5	200	280	15	1404				
	5.0	200	350	18	1405				
	6.0	200	450	25	1406				
	7.0	200	650	36	1733				

Compact profile line for your luff. This is a highly compact and abrasion resistant profile line featuring a smooth cover which consists of 16-plait PES of a very short lay length. The core is made of 8-plait PES.




Static Dyneema®

 <div>Dyneema® SK78</div>	Ø	Length	MBL	Weight	Color/Item no.	
	mm	m	daN	g/m	white	black
	3	120	817	5.8	8384	8386
	5	120	1,815	17.1	8385	8387
	7	120	3,290	27.0	0135	0136

Lightweight and extremely strong. This safety line is made of 100% Dyneema® fibers. It represents a perfect alternative to steel wire ropes for lifelines. This safety line is lighter, more flexible, and more long-living than steel ropes.

Polynite

 <div>XLF 3</div>	Ø	Length	MBL	Weight	Color/Item no.				
	mm	m	daN	g/m	white				
	5	200	400	11	6009				
	6	200	650	15	6010				
	7	200	950	24	6011				
	8	200	1,300	32	6012				
	10	200	1,800	49	6013				

Premium quality line with low creep. Polynite is a laid 3-strand rope made of high quality XLF. As a result, Polynite exhibits low creep and is therefore perfectly suited as a leech line.



Leech Line


 <div>Polyester 32</div> <div>Dyneema®</div>	Ø	Length	MBL	Weight	Color/Item no.				
	mm	m	daN	g/m	red-silver				
	1.7	250	130	2	9110				
	2.5	250	300	5	9111				
	3.0	200	500	7	9112				
	4.0	200	700	11	9113				
	5.0	200	1,000	16	9114				



Leech line with minimal stretch. Leech Line performs at its best primarily when used with clam cleats. Its polyester cover lends to Leech Line immense dimensional stability, and its Dyneema® core ensures its minimal stretch.

Dyneema® Cover





Dyneema® SK78

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	
5-8	100	-	13	white 0492
8-10	100	-	19	0493
11-15	100	-	25	0491

Dyneema® protective cover used to sheathe particularly vulnerable cordage portions.

Minispools

Polyester Colour



Polyester trim or flag line. Very UV resistant, exhibits little stretch, and very abrasion resistant. Consists of 8-plait PES.

Ø	Length	MBL	Weight	Color/Item no.			
mm	m	daN	g/m	red	blue	green	black
3	200	150	4	0022	0023	0024	0025
4	200	280	7	0027	0028	0029	0030
5	200	450	13	0201	0203	0204	0106
6	200	550	16	-	-	-	0032

Minispools Polyester Colour



For use as a flag line or trim line. Low stretch, highly resistant to abrasion and UV, consists of 8-plait PES.

Ø	Length	MBL	Weight	Color/Item no.				
mm	m	daN	g/m	red	blue	green	black	assorted colors
3	20	150	4	0179	0182	0128	0185	0164

Minispools Orion 500



Extremely high quality polyester all-purpose rope. This product features a 16-plait cover combined with a yarn, both made of high quality polyester.

Ø	Length	MBL	Weight	Color/Item no.							
mm	m	daN	g/m	red	blue	neonyel-low	neon-green	purple	pink	black	assorted colors
2	30	70	3	1296	1297	2962	2963	2964	2965	9086	9088
3	15	150	6	1306	1307	2966	2967	2968	2969	9087	9089
2	30	70	3	-	-	-	-	-	-	-	8133
3	15	150	6	-	-	-	-	-	-	-	8134

Minispools Classic-Tex



Eyecatching: the classic look of Classic-Tex. Twisted 3-strand XLF line.

Ø	Length	MBL	Weight	Color/Item no.	
mm	m	daN	g/m		
3	15	120	5	traditional	
				5319	

Minispools XLF



Allround rope, very grippy, for a variety of applications. 8-plait line made of XLF.

Ø	Length	MBL	Weight	Color/Item no.	
mm	m	daN	g/m		
1	50	25	1	white	
2	40	50	2	3281	
3	15	100	3	3117	
4	10	200	5	3095	
				7119	

Minispools Ocean 3000 XG



Dyneema® SK78

Ø	Length	MBL	Weight	Color/Item no.	
mm	m	daN	g/m		
2	25	400	2	anthracite	
3	15	800	5	0568	
4	10	1,600	8	0569	
				9712	

Minispools Leech Line



Dyneema® rope on a minispool for various applications. 12-plait cover with Dyneema® SK75 core.

Ø	Length	MBL	Weight	Color/Item no.	
mm	m	daN	g/m		
1.7	10	130	2	red-silver	
				2670	

Whipping twine

Whipping twine Dyneema® SK78



Innovative whipping twine made of Dyneema® SK78. Dyneema® whipping twine excels mostly due to its high breaking loads and smooth surface. It is easy to handle and requires no additional waxing.

Ø	Length	Color/Item no.			
mm	m	white	blue	green	red
1	50	4091	0228	0230	0225

Waxed whipping twine



Whipping twine – particularly easy to handle. FSE Robline® waxed whipping twine made of colored polyester impresses users with the high quality of the twisted PES twine.

Ø	Length	Color/Item no.					
mm	m	red	blue	green	black	brown	assorted colors
0.8	80	9680	9678	9679	9677	9685	0109

Waxed whipping twine



Ø	Length		Color/Item no.
	mm	m	
0.5	100		white 9635
0.8	80		9676
1.0	46		9640
1.5	32		9681

Whipping twine with a high wax content. Available as twisted whipping twine in diameters of 0.5mm and 0.8mm. From a diameter of 1mm, it is

braided and will not open because of the flat, strong seam. The special wax formula makes this whipping twine particularly easy to use.

Waxed whipping twine and needle



Ø	Length		Color/Item no.
	mm	m	
0.8	80		white 9716
			brown 9687
			navy 9843

Waxed polyester twine with sailmaker needle.
Available in cartons of 10 units each.



© Max Ranchi

TRADITIONAL ROPES

It is first impressions that count. And if yachting lines actually do look like traditional ropes, are long living and abrasion resistant, chances are that they are traditional yachting ropes from FSE Robline®.

Classic 5000






Polyester 32

Polyester soft

Dyneema® SK78

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	traditional
10	200	4,200	52	2663
12	150	5,700	85	2664
14	100	7,400	119	2665
16	100	9,200	147	2666



Classic 5000 is a high tech yachting rope with a traditional look and offers regatta sailors on vintage yachts an attractive looking alternative to Performance category ropes.

Double Braided Classic





Polyester 32

Polyester

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	traditional
10	200	2,600	71	2361
12	150	3,600	103	2362
14	100	4,800	140	2363
16	100	6,500	178	2364




A traditional rope with a long life span. Based on the long standing and proven Sirius design, Double Braided Classic excels due to its ideal grip and high abrasion resistance. The 32-plait weave of this traditional

line consists of a combination of polyester staple fibers and polyester multifilaments and ensures the product's long service life.


Classic-Tex





XLF 3

Ø	Length	MBL	Color/Item no.
mm	m	daN	traditional
3	400	120	5310
4	200	165	5311
6	200	355	5312
8	200	595	5313
10	200	900	5314
12	150	1,340	5315
14	100	1,740	5316
16	150	2,180	5317
30	50	5,700	5347




A new edition of this all-time classic Made of XLF, Classic-Tex looks like a traditional rope, but behaves like a state-of-the-art yachting rope. Its benefits include a long service life, low stretch, and zero water absorp-

tion. Classic-Tex can be used as a sheet, in tackles, as a multi-purpose rope, and for decorative purposes.

Spunflex






XLF 3

Ø	Length	MBL	Weight	Color/Item no.
mm	m	daN	g/m	traditional
6	220	550	17	7170
8	220	960	29	7171
10	220	1,430	45	7172
12	220	2,030	74	7173
14	220	2,790	94	7100
16	220	3,500	124	7046
18	220	4,500	142	7047
20*	220	5,500	184	7174
22*	220	6,700	219	7175
24*	220	7,500	254	7176
26*	220	8,900	320	7177
28*	220	10,100	347	7048
32*	220	11,000	446	7178

*coil



A symbiosis between traditional look and cutting edge tech Spunflex bridges the gap between modern yachting ropes and traditional appearance. XLF fibers make Spunflex long living, abrasion resistant,

low-stretch, and resistant to water absorption. It is suited for use as a multi-function rope and for decorative purposes.

The classics of modernity

The result of a fusion between traditional appearance, compelling style, and cutting edge technology.

ACCESSOIRES

Safety Net & Safety Line



Item	Length	Ø	Color/Item no.
	m	mm	
Line	100	7	white 5090
Net	210	2	8382
Net	70	2	5091

Important! Line and net must be ordered separately!

Stainless steel splicing set with hooks



Item	Item no.
Stainless steel splicing set with hooks	5097

For polyester and high tech yachting ropes from 3 to 10mm.

Heat-cutting device



Item	Color/Item no.
Cutting knife	white 5023
Heat-cutting device	5022

Dyneema® Scissors



Item	Color/Item no.
Dyneema® Scissors	gray 5379

Special scissors with microserration for high tech fibers.

Multi-Purpose bag



Practical multi-purpose sports bag of high quality workmanship.

Color: blue

Dimensions:
55 x 25 x 30cm

Item no.: 7991041

Belt



140 cm long, cutting to length is easy with a heat-cutting device

Item no.: 7991040

Polo shirts



High quality MUSTO polo shirts sporting the FSE Robline® logo.
Colors: blue, black, and white

Item numbers for sizes:
S: 7999989
M: 7999963
L: 7999964
XL: 7999965
XXL: 7999966

Classic display



The ideal presentation platform for FSE Robline® products. Can be used with or without photowall and cover.

The display is available in the following color: gray (RAL 9006).

Item no.: 5279

Soft Shackle Ocean



Item	Length	Ø	Color/Item no.
	m	mm	
Soft Shackle Ocean	80	4	gray 2880
Soft Shackle Ocean	95	6	2881
Soft Shackle Ocean	155	9	2882
Soft Shackle Ocean	205	12	3599
Soft Shackle Ocean	240	14	3600

FIBER TYPES

Overview

<div><div>– Monofilaments</div><div>A few comparatively thick fibers (Ø 0.3mm) are fed in parallel to the braiding process.</div><div>FSE Robline® products: Floating Security Line</div></div>	<div><div>– Multifilaments</div><div>Many very thin fibers (0.001mm) are used as a bundle during the braiding process. This is the most widely used kind of construction in yachting ropes.</div><div>FSE Robline® products: Globe 5000, Orion 300/500</div></div>	<div><div>– Textured fibers</div><div>The fibers are not arranged in parallel in the bundle but exhibit a more or less random type of arrangement. This is why the fiber bundle has a comparatively rough surface.</div><div>FSE Robline® products: Racing Sheet</div></div>
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Base materials in detail

<div><div>– Dyneema®</div><div>The starting material for Dyneema® is polyethylene. It is modified at a molecular level and stretched in one direction. The stretched molecule chains increase breaking strength and decrease elongation. Therefore, Dyneema® exhibits the lowest elongation at break of all synthetic fibers. Dyneema® has very low specific gravity, which makes it buoyant. The only downside of this fiber is that it creeps. This means that the fiber will show permanent elongation under load. Dyneema® is used as a core material in high tech yachting ropes. The core bears the load, while the cover merely serves as a protection against abrasion and light. Therefore, it is certainly possible to remove the cover from the rope ends without reducing the rope's breaking strength. Dyneema® also exhibits good abrasion resistance and resistance to sunlight. Dyneema® is the most widely used high tech fiber in yachting ropes and can be used for a vast variety of high quality products such as sheets, halyards, and trim lines.</div><div>Products: Ocean 3000 XG, Admiral 7000/5000/3000, Globe 5000/3000/1000, Dinghy Control, Ocean Dyneema®</div></div>	<div><div>an absolute high tech fiber mainly designed for competition. Its low UV resistance makes using a cover indispensable, which must not be removed, not even for weight reduction purposes.</div><div>Products: Admiral Vectran®, Vectran® 3000, GFL</div></div>	<div><div>a core material for halyards, sheets, mooring lines, and anchor lines. On high tech cordage, polyester is used as the cover material. The outstanding characteristics of polyester speak for themselves. Since polyester sinks, it can also be used for anchor lines. For high tech yachting ropes, it is used as a cover material (UV protection), while for simple yachting ropes it is also used in the core.</div><div>Products: Orion 300, Sirius 500, Rio, Rapallo</div></div>
<div><div>– Polyamide (PA)</div><div>Polyamide provides high breaking strength as well as high elongation. The abrasion resistance of PA is better in wet than in dry conditions, as the fiber tends to absorb water (up to 7%). Kept in contact with moisture for too long, the material can become stiff. Another downside of PA compared to polyester is its comparatively lower UV resistance. This is why PA is increasingly being replaced by polyester. Polyamide is still widely used for mooring ropes and allround lines.</div><div>Products: Palermo</div></div>		
<div><div>– Polypropylene (PP) = XLF</div><div>Due to its limited technical properties, polypropylene is only used for simple applications. PP is extremely lightweight and even buoyant. Its abrasion strength and temperature resistance are adequate. Typically, it is used for simple mooring lines or for allround lines.</div><div>Products: Albatros, Cormoran</div></div>		
<div><div>– Liquid crystal polymer (LCP)</div><div>Liquid crystal polymers (LCP's) are extremely complex, modified polyester chains. Vectran® is a brand name of Hoechst Celanese in the U.S. Vectran® is very expensive. Therefore, it is used only in high tech cordage. This product stands for low stretch combined with ultimate breaking strength. However, its UV resistance is not very high. Furthermore, LCP's exhibit very high temperature resistance and low vulnerability to bending across sharp edges. The big advantage of Vectran®, however, is the absence of creep. Vectran® is</div></div>	<div><div>– PBO (Polybenzoxazole, Crystal Polymer)</div><div>PBO is a high tech fiber. Produced by Toyobo in Japan, it combines extreme breaking strength, high temperature resistance, and very low elongation. Its weakness, however, is its low resistance to sunlight.</div><div>Products: Custom-made</div></div>	
	<div><div>– Aramid</div><div>Aramid fibers provide extremely high breaking strength combined with almost no elongation. They are sensitive to sunlight, bending across sharp edges, and abrasion. In yachting ropes, aramid only plays a minor role. This fiber is produced by DuPont (Kevlar®) and Akzo (Twaron®). In the Yachting Rope segment, aramid fibers are mainly used in places where high temperature resistance is essential, for example on winches. They are ideally suited for use on winches. However, due to their low resistance to bending over sharp edges, they should not be used on stoppers.</div><div>Products: Ocean Dyneema®, Leech Line 3000</div></div>	
	<div><div>– Polyester (PET)</div><div>PET stands for good breaking strength and low elongation. It offers both chemical and physical benefits such as resistance to seawater, good abrasion resistance (in both dry and wet conditions), and good resistance to sunlight. This makes PET a go-to choice in the production of many yachting lines. It is used as</div></div>	

Overview of products

Rope	Starting material	Strength	Specific gravity	Water absorption	Resistance to sunlight	Elongation	Abrasion resistance	Creep	Melting point
	mm	daN/mm²	kg/cm³	%		%			C°
Polypropylene (PP) = XLF	XLF Multi-filament	56	0.91	0	good	20 – 25	sufficient	at high loads	160
Polyester (PET)	PET	110	1.4	0.5	very good	10 – 16	very good	nearly not measurable	250
Polyamide (PA)	PA6/PA66	81	1.14	3.0	average	20 – 25	very good	low. good	250
Dyneema®/Spectra®	VHMPE	345	0.97	0	good	3.5	very good	at high loads	140
Aramid	Aramid	250	1.45	3.0	poor	3.5	very good	nearly not measurable	450
Liquid crystal polymer	LCP	280	1.41	0	poor	3.5	good	not measurable	330
PBO	PBO	574	1.54	0.5 – 2.0	low	2.5 – 3.5	very good	nearly not measurable	-

To the max!

Those who promise the best, must be ready for it: with every fiber!

ROPE CARE

In order to prolong the service life of your ropes, we recommend that you observe the following instructions:

– Storage

Always keep the ropes in a clean and dry place. Avoid exposing them to direct sunlight and extreme temperatures. Do not drag ropes over rough surfaces or dirty grounds, as dirt can penetrate between the fibers and cause abrasion damage. Always keep ropes away from chemicals.

If you plan to keep the ropes in storage for extended periods of time, wash them first in fresh water. Salt and dirt will reduce a rope's life span.

– Coiling up of ropes

3-strand ropes of any type could be damaged if they are taken off a coil the wrong way. Always keep this in mind and avoid kinks that would open up the 3 strands and compromise the integrity of the rope.

Braided ropes may get twisted by incorrect handling. The ideal method to coil up a braided rope is in the form of a figure 8. This avoids putting twist in the rope and will ensure its optimal running behavior when using it again. When using a reel with a braided rope, make sure that it runs freely on a central axle. This helps avoid twists and kinks in the rope.

– Sheaves, blocks

Ropes used around sheaves will experience a reduction in strength and lifetime. We suggest that you use a sheave diameter which is approx. 8-9 times the rope diameter.

The use of V-profile sheaves should be avoided as they compress the rope and cause local friction thus shortening the rope's lifetime.

– Winches

The requirements for ropes used on winches differ from those for ropes only used on cleats. It is important to understand that some cover constructions are not designed to be used on abrasive winch drums, as they would degrade rapidly.

– Chemicals

Exposure to chemicals may cause synthetic fiber ropes to deteriorate or be damaged. This may lead to a considerable loss in strength of a rope. Impregnating a rope with unauthorized products may alter the properties of the treated rope.

Therefore, we recommend to refrain from using any solvents or other conventional cleaning products. If in doubt, please contact your FSE Robline® dealer.

– Heat

Exposure to temperatures above 40° C may change the properties of a rope temporarily or even permanently. In some cases, such changes can be positive, e.g., changes brought about by pre-stretching or heat-setting processes. Nevertheless, in most cases high temperatures lead to adverse consequences that reduce the strength of the rope. Be sure to avoid any exposure to punctual heat sources.

– Heat generated by friction

When using a rope on a winch, it may happen that friction-induced heat causes fibers of the rope to melt.

This can compromise the rope's performance. Some ropes are specifically designed to withstand extensive friction and the heat generated by it – your dealer will be happy to assist you in finding the right product for your specific application.

– UV rays

Ultraviolet rays may affect the quality and lifetime of synthetic fiber ropes. Hence, it is imperative to limit the exposure of ropes to sunlight to a minimum, if possible.

Ropes with smaller diameters are affected more severely than larger diameter ropes.

– Abrasion

Contact with abrasive surfaces or sharp edges will generally lead to damage on the rope. Therefore, be sure to avoid having ropes run across any type of non-movable surfaces, unless they were designed for this purpose (e.g. rings).

It is also important to avoid any situations where ropes will come into contact with sand, dirt, and other abrasive particles. The damage caused by this in a rope's interior may not be visible from the outside. However, it may significantly reduce the rope's strength.



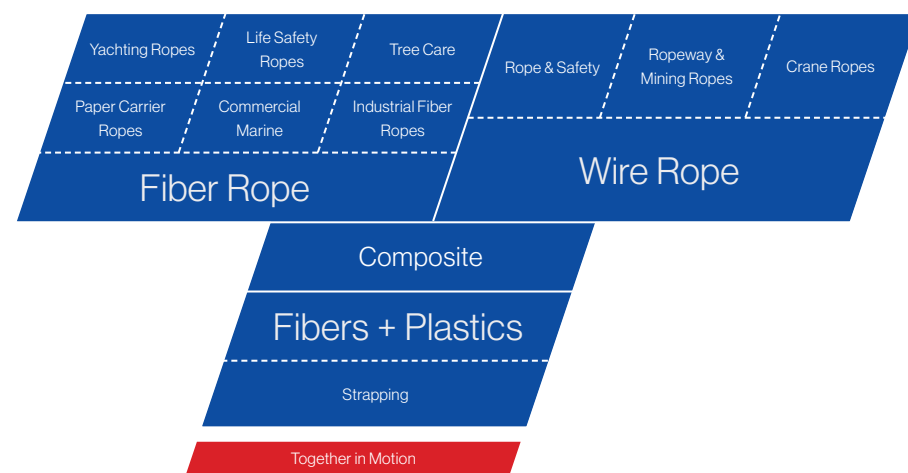
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EXPERTISE FROM 225 YEARS OF EXPERIENCE

What started back in 1790 with simple hemp ropes has since evolved into a globally successful group of enterprises specializing in the development and production of fiber and steel wire ropes, strapping, and composites.

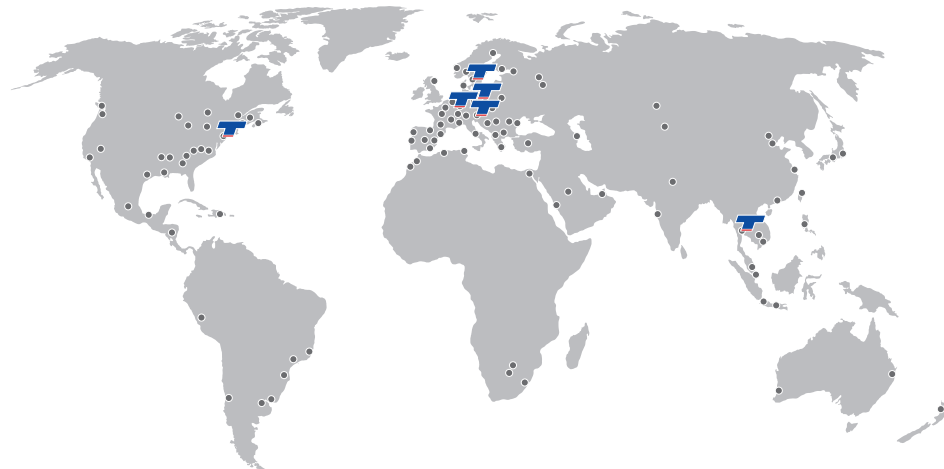
Vast diversity

Its products are designed for a wide variety of applications ranging from cranes and marine applications to packaging and through to the automotive sector. It is the continuity and stability of a family business that makes us the reliable partner who supports you, competently and effectively, in coping with your daily challenges.



Global presence ensures customer proximity

Manufacturing operations in various countries allow us to meet local quality and certification standards as well as customer requirements without difficulty. From our sites in Austria, the Czech Republic, the U.S., Sweden, and Thailand, and backed by a close-knit global network of distribution partners, we continue to satisfy the expectations of our customers.



Innovative solutions through synergies

TEUFELBERGER is a leading specialist for fiber and steel wire ropes, strapping, and fiber composite components. The spectrum of technologies in TEUFELBERGER's portfolio generates various synergies between the extrusion of thermoplastics, braiding of high performance fibers, and processing of wires into ropes, strapping, and lightweight composite components.

Especially fiber and steel wire products brought about valuable synergies with regard to both application and manufacturing technologies, which have benefited our customers tremendously. This makes TEUFELBERGER your ideal partner right from the project planning phase.

5% of TEUFELBERGER's employees are active in research and development and make sure that our customers have access to the latest, innovative rope technologies. 10% of the entire investment volume are committed to development and quality assurance.

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