

Photos: Profs



FSE ROBLINE

# WORLD CLASS YACHTING ROPES



RACING

# RACING

ENGLISH

**FSE ROBLINE**  
WORLD CLASS YACHTING ROPES



## EXPLANATION OF TECHNICAL DATA

YOU WILL FIND THE DATA BELOW ON THE FOLLOWING PAGES FOR EACH PRODUCT:

**DIAMETER**  
**LENGTH**  
**BREAKING LOAD IN DAN**  
**WEIGHT PER METER**

Ø mm	4	6	8	10	12	14
m	200	200	200	200	150	100
daN	450	1200	2250	3400	4600	5800
g/m	10,6	22,6	41	60	86	116
red	9204	9205	9206	9207	9208	9209
navy	9222	9223	9224	9225	9226	9227
green	9216	9217	9218	9219	9220	9221
black	9210	9211	9212	9213	9214	9215



**ROPE LENGTH:**

The rope is measured in consideration of EN ISO 2307 standard

**DIAMETER OF ROPE:**

Indicated diameter is always the maximum diameter.

**m:**

Length of rope per spool or coil.

**daN:**

Is the measure for tractive power. **1 daN is approx. 1 kg, or 2.2 pounds**

**BREAKING LOAD:**

The detail in daN shows the load under which the rope would part. These loads are values which are approved as a result of laboratory testing. Performance in actual conditions may vary. Our sizing recommendations are based on breaking loads that are five times the working load.

**WEIGHT PER METER :**

The figures refer to one meter of rope. The length of the rope can change during use, so figures are based on new cordage.

**MATERIAL:**

The sample shows a 24-braided Polyester-cover with a 12-braided core of Dyneema® SK75.

## SYMBOLS



**HALYARD**



**CROSSOVER**  
Sheet / Halyard



**DOCK LINE**



**SHEET**



**TRIM**



**ANCHORING**

## WARNING



The misuse of ropes can be dangerous. Our products may only be used for the purpose they are designed for.

We recommend a splice as end connection for all of our products.

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.

For Dyneema® products (such as Ocean 3000 for example) a splice is the only option that should be used, as knots can come undone under a load.



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FALL  
HALYARD  
FALD

## ADMIRAL DYNEEMA® SK90



Ø mm	8n	10n	12n	14n
m	200	200	150	100
daN	4200	6300	8800	11500
g/m	43	68	93	125
silver	2162	2164	2166	2168
black	2161	2163	2165	2167

n = Available only on demand

## The brand new top product for discerning sailors

The Admiral Dyneema® SK90 fulfils even the most demanding rope requirements. The new Dyneema® SK90 fiber by DSM is worked into the core, which achieves particularly high breaking strengths. As the Admiral Dyneema® SK90 displays minimum creep behaviour, it is mainly used in high-performance sports and on huge yachts.

## Technical Data

The core of Admiral Dyneema® SK90 is made from the brand new Dyneema® SK90 fiber, which is capable of very high breaking loads. The coating made of 32-fold braided Polyester protects the core from abrasion and UV-radiation and is simple to handle.

## HIGHLIGHTS

- HIGHEST BREAKING LOAD
- MINIMUM CREEP

FALL  
HALYARD  
FALD

## ADMIRAL PBO



Ø mm	4n	6n	8n	10n	12n	14n
m	100	100	100	100	100	100
daN	1700	2400	6000	8300	13000	18000
g/m	14	25	50	82	113	154
black	8910	8911	8912	8913	8914	8915

n = Available only on demand

## Highest breaking loads with zero stretch

Admiral PBO demonstrates its excellent breaking loads especially when used as halyard, spinnaker guy, or in other situations where extreme loads are encountered.

## Technical Data

The 32-plait Polyester (PES) cover protects Admiral PBO from UV radiation and makes it extremely resistant to abrasion.

SCHOT  
SHEET  
ECOUTE

## ADMIRAL VECTRAN®



Ø mm	8n	10n	12n	14n*	16n*	18n*	20n*
m	200	200	150	245	210	180	145
daN	3150	4600	6200	8000	10000	12500	15000
g/m	46	68	98	140	180	225	286
red	9090	9091	9092	9093	9094	9335	9336
navy	9095	9096	9097	9098	9099	9340	9341
black	9100	9101	9102	9103	9104	8591	8587
white	9105	9106	9107	9108	9109	8586	8588

n = Available only on demand / \* coil

## All-around use, lowest stretch, and high breaking loads

Admiral Vectran® combines low stretch with high breaking loads and does not exhibit creep under steady loads. Admiral Vectran® has an impregnated coated core. Admiral Vectran® is extremely abrasion-resistant, and a stripped version of it is also perfectly suited for use in regatta sailing. An additional benefit is its excellent spliceability.

## Technical Data

The 32-plait Polyester (PES) cover makes Admiral Vectran® highly abrasion-resistant. The Vectran® core utilizes FSE Robline special impregnation process and coating to protect fibers from UV radiation and ensures excellent adhesion between core and cover.



OCEAN DYNEEMA®

FALL  
HALVARD  
FALD



Ø mm	8n	10n	12n	14n	16n	18n*	20n*	22n*	24n*
m	200	200	150	100	100	180	250	180	150
daN	3500	4800	6300	8500	10000	14500	18000	20000	23000
g/m	41	59	87	117	143	184	244	267	325
red-yellow	9195	9196	9197	9198	9199	9200	9201	9202	9203
blue-yellow	8922	8923	8924	8925	8926	8927	8928	8929	8930

n = Available only on demand / \* coil

The sheet for the Volvo Ocean Race

Ocean Dyneema® benefits from the high heat resistance of Aramide fibers, using them for a novel type of braided sheathing. As a consequence, this sheet is used mainly on large winches where high temperatures are encountered, for instance when securing on back stay winches.

Technical Data

The 32-plait cover: 50% of which are made up of Aramide and 50% of Polyester (PES), is highly resistant to abrasion and heat. For the core, Dyneema® SK75 is braided into a 16-plait core. Low stretch, high breaking loads, and good spliceability are the results.

HIGHLIGHTS

- HIGH HEAT RESISTANCE
- HIGH ABRASION RESISTANCE



OCEAN 5000

TRIM  
TRIM  
TRIM CROSS  
OVER



Ø mm	6	8	10	12	14n	16n	18n	20n	22n	24n
m	200	200	200	200	200	100	100	100	100	100
daN	3600	7300	10900	17800	21700	26100	35800	40800	53600	57800
g/m	20	36	49	90	116	136	192	217	263	345
anthracite	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808

n = Available only on demand

Highest breaking loads and low abrasion

The Ocean 5000 gains points for its top quality workmanship. As it has been pre-stretched and is made of Dyneema® SK75, its particularly high breaking loads leaves other ropes in the dark. Even with high loads and when used behind the scenes, Ocean 5000 meets the highest standards.

Technical Data

Ocean 5000 is made purely of Dyneema® SK75 and is therefore especially abrasion and UV-resistant. The high breaking strengths and the innovative waterproofing are just some of its other benefits.

HIGHLIGHTS

- HIGHEST BREAKING LOAD
- EXCELLENT UV-RESISTANT

OCEAN COVER ONLY



Ø mm	5 - 6n	8 - 10n	12 - 14n
m	100	100	100
g/m	13	21	37
blue-yellow	2317	2160	9814

n = Available only on demand

Robust, highly heat-resistant sheathing

Ocean Cover Only is the product of choice if your rope needs additional protection against abrasion or heat. Made of a combination of Aramide and Polyester (PES) fibers, the cover is used to protect those points of the rope or core that are exposed to extremely high strain and friction.

Technical Data

The 32-plait Ocean Cover Only is made up of Aramide (50%) and Polyester (50%). This is the ideal mix to maintain your rope both flexible and resistant to abrasion and heat.



## SYS COVER ONLY



Polyester/  
Polyamide 32

Ø mm	5 - 6n	8 - 10n
m	100	100
g/m	17	33
red-anthracite	2330	2331

n = Available only on demand

Cover with extreme abrasion resistance and excellent grip!

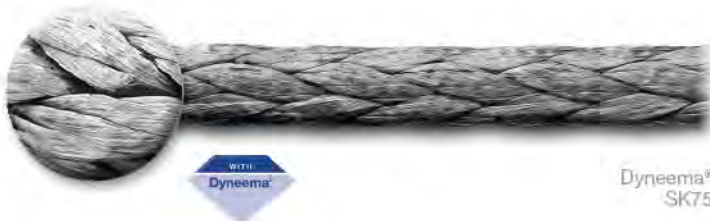
As the name already reveals, the SYS Cover Only consists of the sheathing of the SYS that has been proven and tested for years. The cover made of a Polyester/Polyamide construction offers protection to those points of the sheet exposed to maximum loads. The blend of the materials provides the cover with excellent grip and extreme abrasion resistance.

### Technical Data

The 32-plait weave of Polyester and Taslan ensures superior abrasion resistance and high breaking strength, even when the going gets rough. The integrated mouseline facilitates the cover's application onto the sheet. This combination of premium-quality materials and excellent workmanship is what makes the Super Yacht Sheet Cover the ideal solution on winches.

## SOFT SHACKLE

NEW  
PRODUCT



Dyneema®  
SK75

Ø mm	4	6	9
Breaking load	1000	2000	4000
Working load	500	1000	2000
length mm	80	95	155
anthracite	2880	2881	2882

Soft shackles permit connections of low weight and high breaking load.

If you would like to get rid of your heavy metal shackles too – FSE Robline offers you the ideal solution! The light-weight and highly loadable soft shackles, made out of Dyneema® SK75, are versatile in use, even in locations that are difficult to access. The advantages of these shackles are mainly that they are so much lighter than conventional metal shackles. What is more, they can be opened easily even after having been loaded. Yet, they will not open accidentally while loaded.




























# OVERVIEW

## FSE ROBLINE ROPE RANGE

The complete list of products in the FSE Robline range in one view.

SCHOT SHEET SKØDE	SHEETS	CROSSOVER
RACING - ONE OFF	<p><b>OCEAN DYNEEMA®</b></p>  <p>∅ 8 - 24mm</p> <ul style="list-style-type: none"> <li>red-yellow</li> <li>blue-yellow</li> </ul>	<p><b>OCEAN 5000</b></p>  <p>∅ 8 - 24mm</p> <ul style="list-style-type: none"> <li>anthracite</li> </ul> <p><b>OCEAN 3000</b></p>  <p>∅ 2 - 12mm</p> <ul style="list-style-type: none"> <li>red</li> <li>blue</li> <li>yellow</li> <li>anthracite</li> </ul> <p><b>VECTRAN® 3000</b></p>  <p>∅ 3 - 12mm</p> <ul style="list-style-type: none"> <li>black</li> </ul>
	<p><b>SUPER YACHT SHEET</b></p>  <p>∅ 6 - 16mm</p> <ul style="list-style-type: none"> <li>red-anthracite</li> <li>black-anthracite</li> <li>silver-anthracite</li> </ul>	<p><b>GLOBE 1000</b></p>  <p>∅ 4 - 14mm</p> <ul style="list-style-type: none"> <li>white-red</li> <li>white-green</li> <li>white-navy</li> </ul> <p><b>GLOBE 3000</b></p>  <p>∅ 4 - 14mm</p> <ul style="list-style-type: none"> <li>red</li> <li>navy</li> <li>green</li> <li>black</li> </ul> <p><b>GLOBE 5000</b></p>  <p>∅ 1,7 - 20mm</p> <ul style="list-style-type: none"> <li>red-silver</li> <li>navy-silver</li> <li>orange-silver</li> <li>green-silver</li> </ul>
CRUISING	<p><b>POLARIS 500</b></p>  <p>∅ 6 - 14mm</p> <ul style="list-style-type: none"> <li>red</li> <li>blue</li> <li>green</li> <li>white</li> </ul>	<p><b>ORION 300</b></p>  <p>∅ 4 - 14mm</p> <ul style="list-style-type: none"> <li>white-red</li> <li>white-green</li> <li>white-navy</li> <li>white</li> </ul> <p><b>ORION 500</b></p>  <p>∅ 2 - 12mm</p> <ul style="list-style-type: none"> <li>red</li> <li>navy</li> <li>black</li> <li>green</li> </ul> <p><b>SIRIUS 300</b></p>  <p>∅ 4 - 14mm</p> <ul style="list-style-type: none"> <li>white-red</li> <li>white-navy</li> <li>white-green</li> </ul> <p><b>SIRIUS 500</b></p>  <p>∅ 4 - 14mm</p> <ul style="list-style-type: none"> <li>navy</li> <li>red</li> <li>silver-red</li> <li>silver-navy</li> </ul>
	<p><b>RACING SHEET PRO</b></p>  <p>∅ 6 - 10mm</p> <ul style="list-style-type: none"> <li>red</li> <li>green</li> <li>blue</li> </ul> <p><b>RACING SHEET</b></p>  <p>∅ 4 - 10mm</p> <ul style="list-style-type: none"> <li>blue</li> <li>grey</li> <li>red</li> </ul> <p><b>DINGHY SHEET</b></p>  <p>∅ 7mm</p> <ul style="list-style-type: none"> <li>red-anthracite</li> </ul> <p><b>TAPERED DYNEEMA®</b></p>  <p>∅ 7 - 9mm</p> <ul style="list-style-type: none"> <li>red</li> <li>blue</li> <li>green</li> </ul>	<p><b>OCEAN 3000</b></p>  <p>∅ 2 - 12mm</p> <ul style="list-style-type: none"> <li>red</li> <li>blue</li> <li>yellow</li> <li>anthracite</li> </ul> <p><b>DINGHY CONTROL</b></p>  <p>∅ 1,7 - 6mm</p> <ul style="list-style-type: none"> <li>white-red</li> <li>white-blue</li> <li>white-green</li> <li>white-yellow</li> </ul> <p><b>DINGHY STAR</b></p>  <p>∅ 1,7 - 6mm</p> <ul style="list-style-type: none"> <li>white-brown</li> </ul> <p><b>VECTRAN® 3000</b></p>  <p>∅ 3 - 12mm</p> <ul style="list-style-type: none"> <li>black</li> </ul>

Dyneema® is a registered trademark of DSM  
 Twaron® is a registered trademark of Teijin  
 Spectra® is a registered trademark of Honeywell  
 Vectran® is a registered trademark of Hoechst Celanese  
 Kevlar® is a registered trademark of DuPont  
 Zylon® is a registered trademark of Teijin

We reserve the right to modify technical specifications and misprints. Printed in Austria/August 2009

FALL  
HALYARD  
FALD

## ▶ HALYARDS

RACING - ONE OFF

### ADMIRAL DYNEEMA® SK90



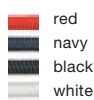
∅ 8 - 14mm



### ADMIRAL VECTRAN®



∅ 8 - 20mm



### ADMIRAL PBO



∅ 4 - 14mm

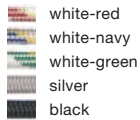


PERFORMANCE

### ADMIRAL DYNEEMA®



∅ 6 - 16mm



CRUISING

ANKERLEINE  
ANCHORING  
ANKRING

FESTMACHER  
DOCK LINE  
FORTJUNING

## ▶ DOCKLINE

DOCKLINE

DOCKLINE

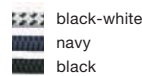
DOCKLINE

DOCKLINE

### RIO



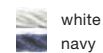
∅ 8 - 32mm



### RAPALLO



∅ 6 - 40mm



POLYESTER

PA

XLF

### PALERMO



∅ 10 - 18mm



### CAPRI



∅ 12 - 16mm



### CORMORAN



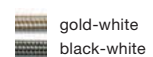
∅ 6 - 20mm



### MONTE CARLO



∅ 10 - 18mm



POLYESTER / XLF

DINGHY

### SATURN



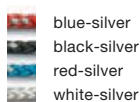
∅ 4 - 10mm



### 8-PLAITED DINGHY



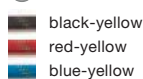
∅ 4 - 6mm

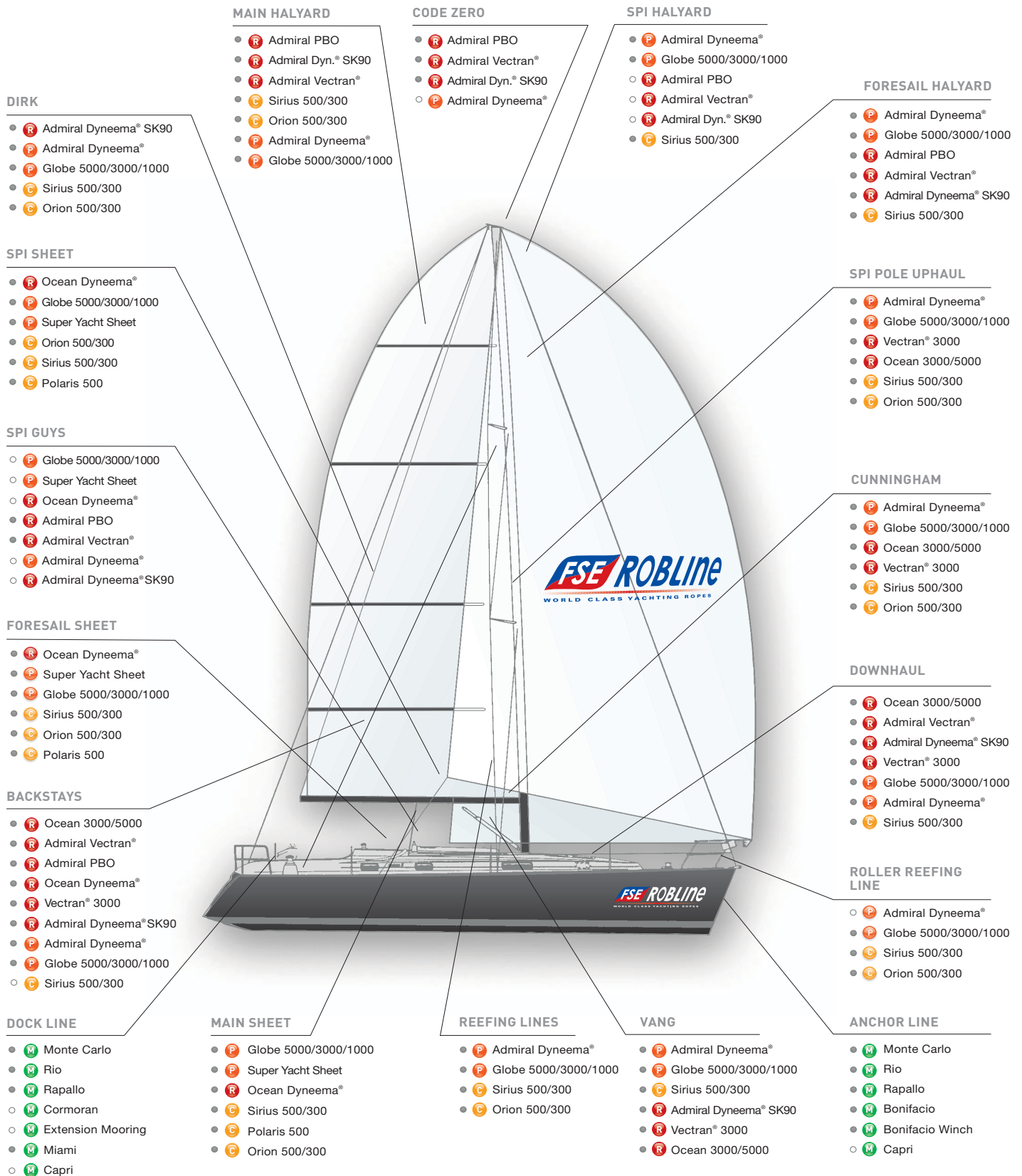


### DINGHY LIGHT



∅ 4 - 8mm





● R Racing  
 ● P Performance  
 ● C Cruising  
 ● M DOCK LINE  
 ● well suited  
 ○ well suited only in certain cases

## CONVERSION TABLE

m	1				g	1000				1	kg	0,454				1	lbs.	2,247									
ft.	3,28				lbs	2,2				0,0022	lbs	1				2,2	daN	1									
mm	0,5	1	1,5	1,7	2	2,5	3	4	4,5	5	6	7	8	9	10	12	14	16	18	20	22	24	26	30	32	36	40
inch	1/64	1/32	1/16	1/16	1/12	7/64	1/8	5/32	11/64	3/16	1/4	9/32	5/16	3/8	13/32	1/2	9/16	5/8	3/4	13/16	7/8	15/16	1	1 5/32	1 1/4	1 5/16	1 1/2

# HOW TO USE YACHTING ROPES

## ROPE SIZING & CARE

### HALYARDS AND SHEETS

Your yacht	ø mm Halyards			ø mm Sheets		
	Spi	Genoa	Main	Spi	Genoa	Main
6-8 m	8	8	8	10	10	10
9 m	8	10	10	10	12	10
10 m	10	10	10	10	14	12
11 m	10	12	10	12	14	12
12 m	12	12	12	12	14	12
14 m	12	12	12	14	14	12
16 m	12	14	12	14	14	14
18 m	14	14	14	14	14	14
24 m	16	16	16	16	16	16

Because of the strength of advanced fibers such as Dyneema®, line diameter can be reduced by as much as 2 mm. Breaking strengths, stretch and diameter information developed by FSE Robline are general guidelines to use when selecting cordage. Actual application can vary according to boat type and application.

### DOCK LINE

Your yacht	Weight in tons	Dock line ø mm	Anchoring ø mm
6-8 m	2	8-10	12
9 m	4	12	14
10 m	5	12	16
11 m	7	14	16
12 m	8	14	18
14 m	11	16	20
16 m	12	18	20
18 m	20	24	24
24 m	22	26	26

Actual application can vary according to boat type and application.

## HANDLING ADVICE for your FSE Robline products



### CLEANING ROPES

If the lines are used in salt-water, they should be thoroughly washed with fresh water after the season to remove salt-crystals, and other damaging dirt. If the lines are used in fresh water they will still benefit from a good rinsing to remove any dirt particles.



### CLEANING IN THE WASHING MACHINE

Ropes that are extremely dirty they can be cleaned in a washing machine, using cold or warm water. Don't use any kind of fabric softener!



### STORAGE

Before being put away for the season, or stored for extended periods ropes should be thoroughly dry to avoid mildew. Ropes are best stored hanging up and out of the sun.



# FEATURES

## PRODUCT

	lowest stretch and highest breaking loads	good UV-stability	abrasion resistant	low weight	floating	soft	kink free	resistance to hightemperatures	good ability on winches	good in cleats	high breaking loads	spliceable	low water absorption	high breaking loads at low weight
<b>RACING</b>														
Admiral Dyneema® SK90	X	X	X	X		X	X		X	X	X	X	X	X
Admiral PBO	X		X			X	X	X	X	X	X	X	X	X
Admiral Vectran®	X		X			X	X	X	X	X	X	X	X	X
Ocean Dyneema®	X		X			X	X	X	X	X	X	X	X	X
Ocean 5000	X	X	X	X	X						X	X	X	X
Ocean Cover Only			X			X		X	X	X		X	X	
SYS Cover Only		X	X			X		X	X	X		X	X	
<b>PERFORMANCE</b>														
Admiral Dyneema®	X	X	X	X		X			X	X	X	X	X	X
Super Yacht Sheet	X	X	X	X		X	X		X	X	X	X	X	X
Globe 5000	X	X	X	X		X	X		X	X	X	X	X	X
Globe 3000	X	X	X	X		X	X		X	X		X	X	
Globe 1000	X	X	X	X		X	X		X	X		X	X	
Vectran® 3000	X		X	X		X		X			X	X	X	X
<b>CRUISING</b>														
Ocean 3000	X	X	X	X	X	X					X	X	X	X
Sirius 500	X	X	X	X		X	X	X	X	X	X	X	X	X
Sirius 300	X	X	X	X		X	X	X	X	X	X	X	X	X
Orion 500		X	X	X		X	X	X	X	X	X	X	X	
Orion 300		X	X	X		X	X	X	X	X	X	X	X	
Polaris 500				X		X	X	X			X	X		
<b>DINGHY</b>														
Dinghy Star	X		X	X		X	X	X	X	X	X	X	X	X
Dinghy Control	X	X	X	X		X	X	X	X	X	X	X	X	X
Racing Sheet Pro	X	X	X	X		X	X		X	X	X	X	X	X
Racing Sheet	X	X	X	X		X	X		X	X	X	X	X	X
Dinghy Sheet		X	X	X		X	X		X	X		X	X	X
8-plaited-Dinghy	X	X	X	X		X		X	X	X			X	
8-plaited-Dinghy Pro	X	X	X	X		X		X	X	X			X	
Dinghy Light				X	X	X	X		X				X	
Tapered Dyneema®	X	X		X		X	X	X	X	X	X	X		X
Saturn		X	X	X		X	X	X	X	X		X	X	
Albatros				X	X	X	X						X	
Ocean 7000	X	X	X	X	X		X				X	X	X	X
<b>DOCKLINE</b>														
Portofino		X	X	X		X	X	X	X	X	X	X	X	X
Rio		X	X	X		X	X	X	X	X	X	X	X	X
Monte Carlo		X	X	X		X	X		X	X	X	X	X	X
Rapallo		X	X	X		X	X	X	X	X	X	X	X	X
Cormoran				X	X	X	X			X		X	X	
Palermo		X	X	X		X	X	X	X	X	X	X	X	X
Newport			X	X		X	X	X	X	X		X	X	
Palma			X	X	X	X	X			X		X	X	



# FEATURES

## PRODUCT

	lowest stretch and highest breaking loads	good UV-stability	abrasion resistant	low weight	floating	soft	kink free	resistance to hightemperatures	good ability on winches	good in cleats	high breaking loads	spliceable	low water absorption	high breaking loads at low weight
<b>SIMPLE SELLING SYSTEM</b>														
3S Sirius 300	X	X	X	X		X	X	X	X	X	X	X	X	X
3S Sirius 500	X	X	X	X		X	X	X	X	X	X	X	X	X
3S Globe 1000	X	X	X	X		X		X	X	X	X	X	X	X
T40		X	X	X		X	X	X			X	X	X	
T50		X	X	X		X	X	X			X	X	X	
T60		X	X	X		X	X	X			X	X	X	
T70		X	X	X		X	X	X			X	X	X	
<b>READY MADE PRODUCTS</b>														
Rapallo		X	X	X		X	X	X	X	X	X	X	X	X
Cormoran				X	X	X	X			X		X	X	X
Rio		X	X	X		X	X	X	X	X	X	X	X	X
Twisted Fender Line		X	X	X		X	X	X			X	X		
Braided Fender Line		X	X	X		X	X	X			X	X		
Buoy Mooring Line		X	X							X		X	X	
Bonifacio Winch		X	X			X	X	X	X	X	X	X	X	X
Poseidon		X	X			X	X	X	X	X	X	X	X	X
Extension Mooring		X	X	X		X	X	X			X	X	X	X
Miami		X	X	X		X	X	X			X	X	X	X
Wire Lock	X	X	X			X		X			X		X	
<b>UNIVERSAL</b>														
Floating Security Line			X	X		X	X					X	X	
Polyester 16		X	X	X				X	X	X	X		X	X
Polyester 8		X	X	X		X	X	X		X	X		X	X
Polyamide 8		X	X	X		X	X	X		X	X		X	X
XLF 8				X	X	X	X			X			X	X
Polyamide 16-Start			X	X				X		X	X		X	X
<b>SAILMAKER</b>														
Shock Cord			X			X	X						X	
Polynite	X	X		X	X	X					X	X	X	X
Profil-Line	X	X	X	X		X		X			X		X	X
GFL	X	X	X	X		X		X		X	X	X	X	X
Leech Line 3000	X	X	X	X		X		X			X		X	X
Trimline Orion 500		X	X	X		X	X	X			X		X	
<b>TRADITIONAL ROPES</b>														
Spunflex		X		X	X	X			X	X	X	X	X	X
Dyneema® Classic	X	X	X	X		X	X		X	X	X	X	X	X
Classic-Tex				X	X	X						X		
Double Braided Classic	X	X	X			X	X	X	X	X	X	X	X	X



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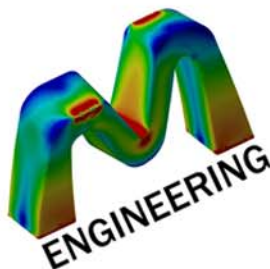
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