



*Product Catalogue 2026*  
*Sailing Ropes Guide*

*Connecting sailors  
to the wind.*



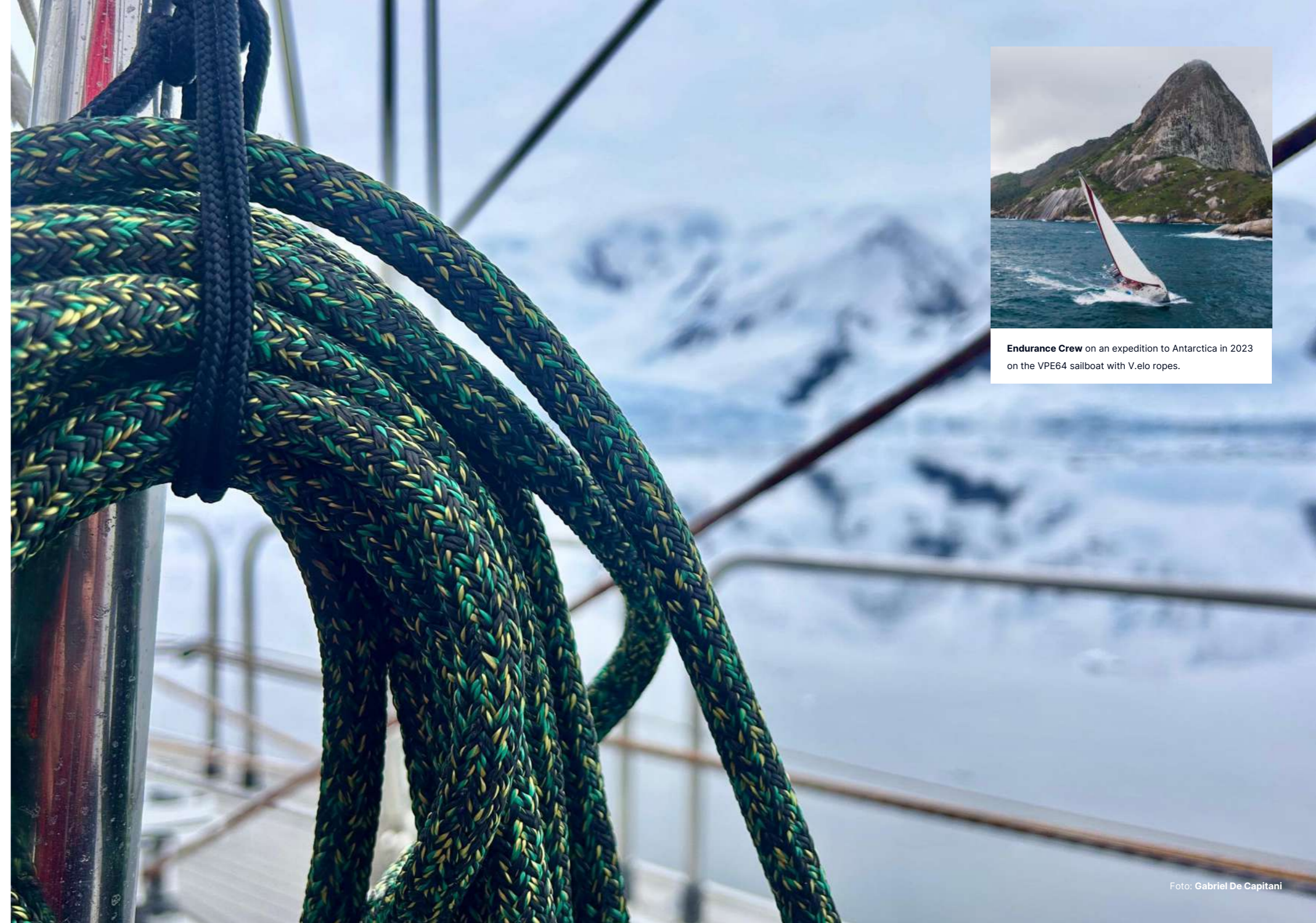
# *Sailing is about community*

We're not just a rope manufacturer. We are a brand created to strengthen the values of sailing. As sailors, we know that it is much more than a sport or leisure practice – it is a way of life. And the ideas and values of this way of life are precisely what identify us and make us stand out as a community – after all, they are present in our way of acting, thinking and living life.

That's why we were born to spread the sailing culture across the world. Connecting sailors with better products, experiences and knowledge. Combining expertise and technology with the passion and pleasure of sailing.

We do that by providing better products that foster experiences and spread the soul of sailing. We are a link, as is the rope. We connect sailors to their best moments on board.

*V.elo: Performance in  
every strand.*



**Endurance Crew** on an expedition to Antarctica in 2023 on the VPE64 sailboat with V.elo ropes.



## *What make us unique*

### *Dyneema® Licensed*

We are the only company on the continent licensed by Avient, manufacturer of Dyneema® fibers, the world leader in high performance.

The construction of the core with specialized coating allows for a braid of greater resistance and improves the core and cover fit.

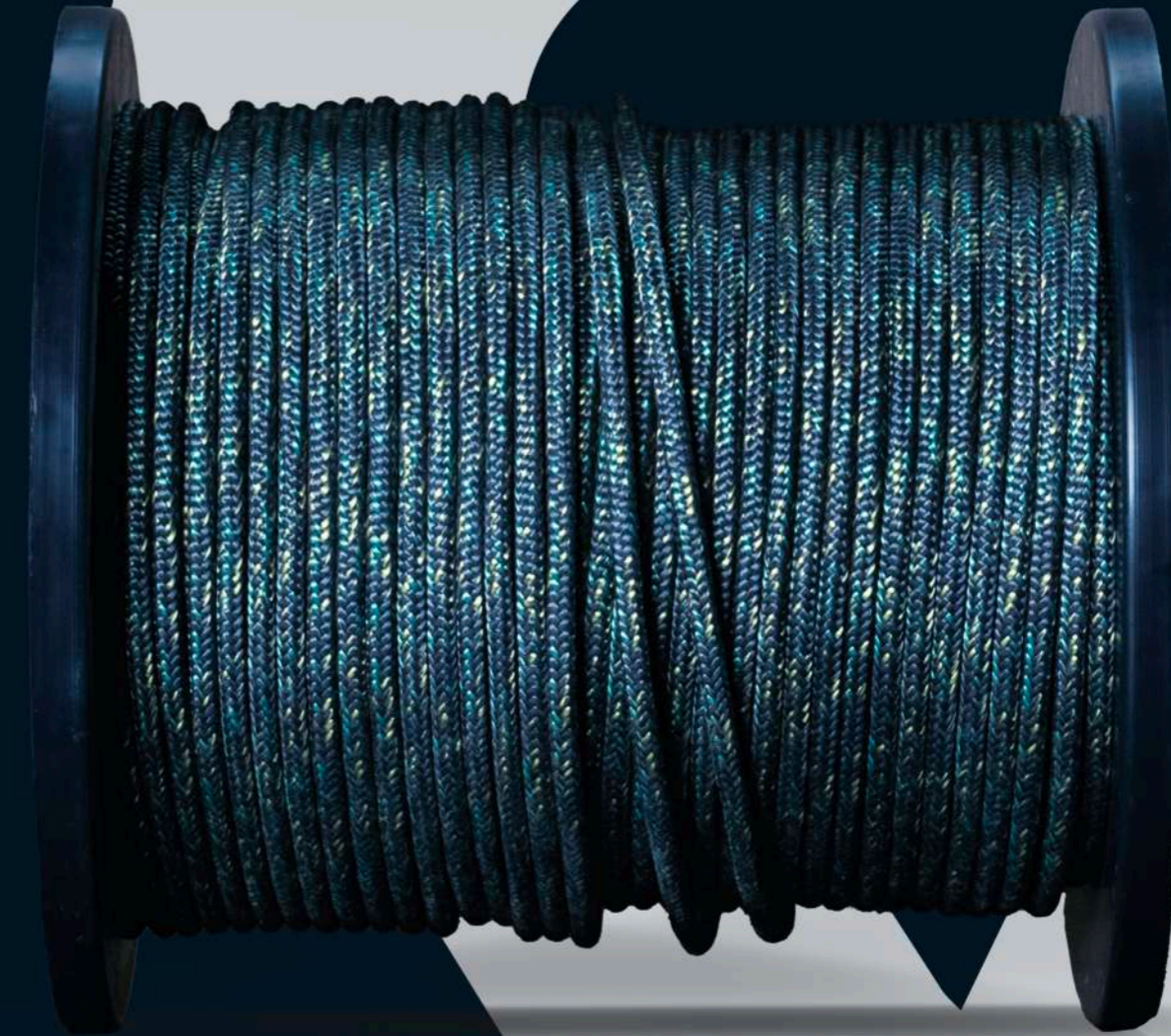


### *Expertise*

The first factory in Latin America with 100% operation dedicated to the production and development of nautical ropes.

### *International Standards*

Ropes made with the same materials and technologies used in the America's Cup and The Ocean Race.



### *Core*

In covered ropes, the core is the internal element responsible for load capacity and elongation, primarily determined by the material used, but also influenced by the braid construction process.

### *Cover*

The outer element in a double-braid rope, responsible for grip, UV protection, and abrasion resistance. These properties are defined both by the material and the manufacturing technique, as well as machine settings during production.

### *Pre-Stretching*

A stage in the manufacturing process aimed at optimizing rope construction for high-load applications. Especially used in lower-performance ropes, such as polyester.

### *Yarn Twisting*

A key construction differentiator is the preparation of the yarns before braiding. Twisting requires highly specialized machinery and a meticulous process, but enables more consistent constructions and variations in grip, abrasion resistance, and softness.

### *Braid Angle*

Different braid angles result in different properties. The braid angle directly affects the material's physical behavior relative to the direction of force, and also influences the spacing between braids, making the rope more or less flexible.

### *V.elo Sheets*

A construction method developed by V.elo specifically for sheets. Covers are engineered with specific thickness and braid angles to provide greater softness. Made with Dyneema® yarns to reduce weight without compromising strength.



Tamara Klink wintering in the Arctic in 2023 aboard her sailboat Sardinha 2 with V.elo ropes.



2023 J70 World Championship where V.elo was present as an official supporter.



## Rope Composition

Each rope has characteristics specially designed for different onboard applications across various types of boats.

To make it easier to understand, we have created product lines with more intuitive names that refer to the composition of the materials used and the different characteristics and applications of our ropes.

### NAMING FORMAT

## “CORE”-“COVER” “COMPLEMENT”

Exemplo:

### Dy-Tech Sheet





Brazilian Championship of 420 where V.elo was present as the official supporter of the competition.



*V.ELO NAMING FORMAT TABLE*

<b>DY</b>	<i>Dyneema® (HMPE)</i>	<b>SOFT</b>	<i>Soft-spun polyester</i>
<b>ULTRA</b>	<i>Spectra (HMPE)</i>	<b>SHEET</b>	<i>Construction for high-performance sheets</i>
<b>TECH</b>	<i>Technora (aramida)</i>	<b>GRIP</b>	<i>Construction for enhanced grip</i>
<b>PES</b>	<i>Polyester</i>	<b>78</b>	<i>Dyneema® SK78</i>
<b>FLEX</b>	<i>Polypropylene/ Polyamide</i>	<b>99</b>	<i>Dyneema® SK99</i>



# *Standard Ropes*

Standard Ropes are the products that make up the basic mix of ropes for any sailboat. That is, ropes that can be used in various ways, both for racing and cruising.



# DyCore Compact

PERFORMANCE **UPDATED**

Dyneema® SK78 with coating and a tighter and more compact braid construction. Ideal rope for purchase systems or uses with Dyneema® core exposed to abrasion, such as the ends of sheets and halyards in contact with the mast and hardware.

**UPDATED:** Sensitive adjustment in construction ensuring greater consistency of the rope's circular profile and enhanced abrasion resistance in applications with exposed core.



## DyCore Compact



Single braid of Dyneema® SK78 with specialized protective coating.



Compact braid that results in greater grip for applications on the boat.

### Technical Sheet

#### CORE

Dyneema® SK78 with protective coating

#### IDEAL FOR

Control and purchase systems ropes, ideal for use in clutches.

- Very light rope
- Firm yet easy to handle
- Greater grip

DIAMETER (mm)	2	3	4	5	6	8	10	12	14	16	18	20
MBL (kgf)	458	915	1.370	2.280	2.732	5.448	8.148	11.650	15.750	20.450	25.750	31.650
LINEAR WEIGHT (g/m)	2,5	4,8	7,5	11,5	14,5	28,0	41,8	59,5	80,5	104,5	131,5	161,5

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554

### Variations and colors

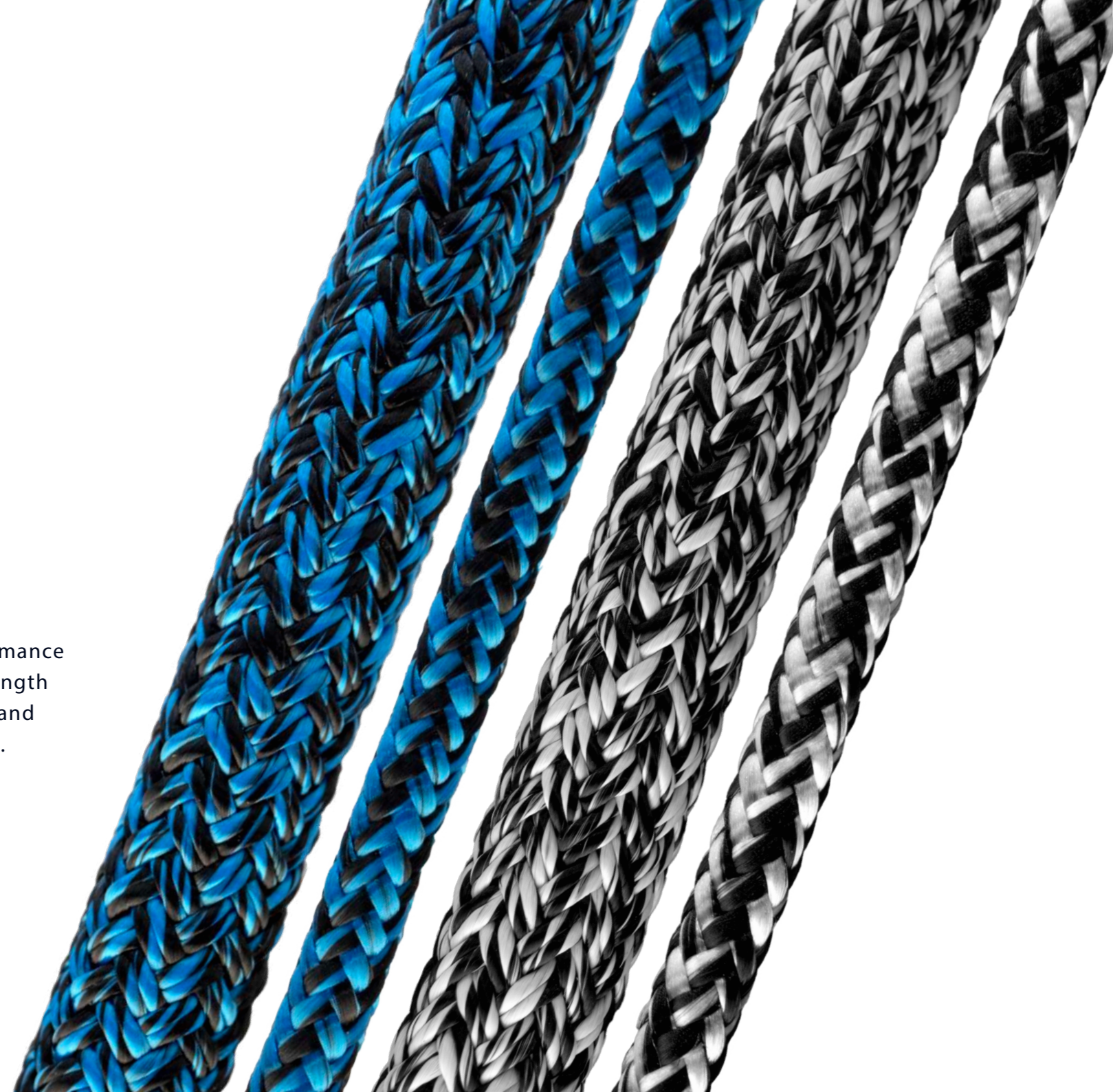




# DyPES

PERFORMANCE

A highly versatile, high-performance rope offering outstanding strength and durability, excellent grip, and minimal flattening in stoppers. Suitable for exposed core terminations.



## DyPES



Dyneema®

Dyneema® SK78 with specialized protective coating.

Premium polyester cover.

### Technical Sheet



#### CORE

Dyneema® SK78 with protective coating

Premium Polyester

#### COLORS



#### IDEAL FOR

Sheets, halyards, and controls that require high performance

- High resistance to heavy loads
- Excellent durability
- Does not flatten in clutches
- Good grip on winches and clutches

### Variations and colors

Black + Color

1,5 ~ 9 mm | 16 plait cover



10 mm + | 24 plait cover



DIAMETER (mm)	2	3	4	5	6	7	8	9	10	12	14	16	18	20	22	24
MBL (kgf)	109	218	399	598	958	1.372	1.729	2.158	2.584	3.540	4.702	5.643	7.000	8.650	10.420	12.380
LINEAR WEIGHT (g/m)	4,1	7,9	12,6	17,9	29,4	41,4	51,5	80,5	71,9	102,1	144,4	183,2	227,9	282,5	341,8	406,5

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554





# DyTech

PERFORMANCE **UPDATED**

High-performance rope with a Technora® cover, for greater abrasion resistance in friction, heat and compression systems such as winches and clutches with high loads.

**UPDATED:** Change in the construction of sheaths for gauges from 6 to 8mm for increased abrasion resistance, higher breaking load, and even less elongation.

Up to 5mm = 16 strands, from 6mm onwards = 24 strands.



## DyTech



Dyneema®

Dyneema® SK78 with specialized protective coating.

Cover made of Technora® in yellow or black colors with premium polyester.

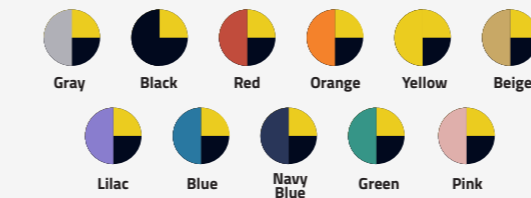
### Technical Sheet

#### CORE

Dyneema® SK78 with protective coating

50% Technora® & 50% Premium Polyester

#### CORES



#### IDEAL FOR

Sheets, halyards, and controls that demand high performance

- High resistance to heavy loads
- Excellent durability
- Does not flatten in clutches
- Better grip on winches and clutches

### Variations and

Black + Yellow +

4 ~ 5 mm | 16 plait cover



6 mm + | 24 plait cover



DIAMETER (mm)	4	6	7	8	9	10	12	14	16	18	20	22	24
MBL (kgf)	1.038	2.328	3.047	3.960	4.637	5.450	7.580	10.150	13.080	16.350	19.980	23.950	28.300
LINEAR WEIGHT (g/m)	13,6	27,5	36,5	44,1	56,0	64,0	89,6	120,5	155,0	194,5	238,5	286,8	339,5

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554



# PES Premium

CRUISING

Our PES line developed in pre-stretched premium polyester with ideal cost-benefit and excellent durability, strength, and great handling.



## Velo PES Premium



Cover and core in high-quality, pre-stretched polyester

Exclusive braiding and construction technique by V.elo.

### Technical Sheet

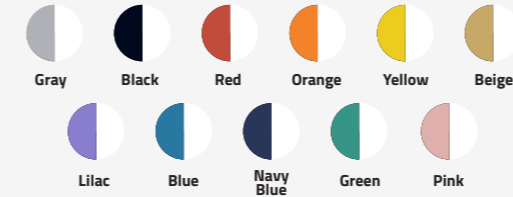


#### CORE

Pre-Stretched Premium Polyester

Premium Polyester

#### COLORS



#### IDEAL FOR

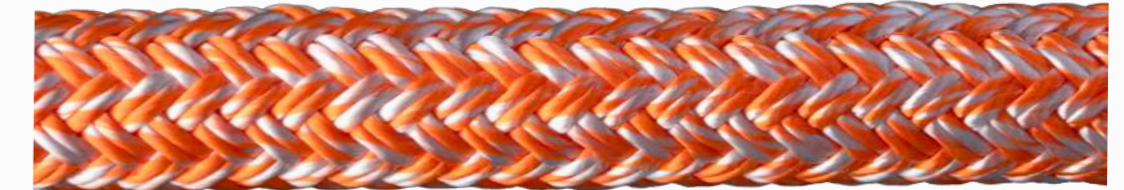
Sheets, controls, halyards, and all ropes for cruising boats.

- Ideal for all applications on cruising boats
- Excellent cost-benefit ratio
- Great balance of features

### Variations and colors

White + Color

2 ~ 18 mm



DIAMETER (mm)	2	3	4	5	6	7	8	9	10	12	14	16	18	20	22	24
MBL (kgf)	109	218	399	598	958	1.372	1.729	2.158	2.584	3.540	4.702	5.643	7.000	8.650	10.420	12.380
LINEAR WEIGHT (g/m)	4,1	7,9	12,6	17,9	29,4	41,4	51,5	80,5	71,9	102,1	144,4	183,2	227,9	282,5	341,8	406,5

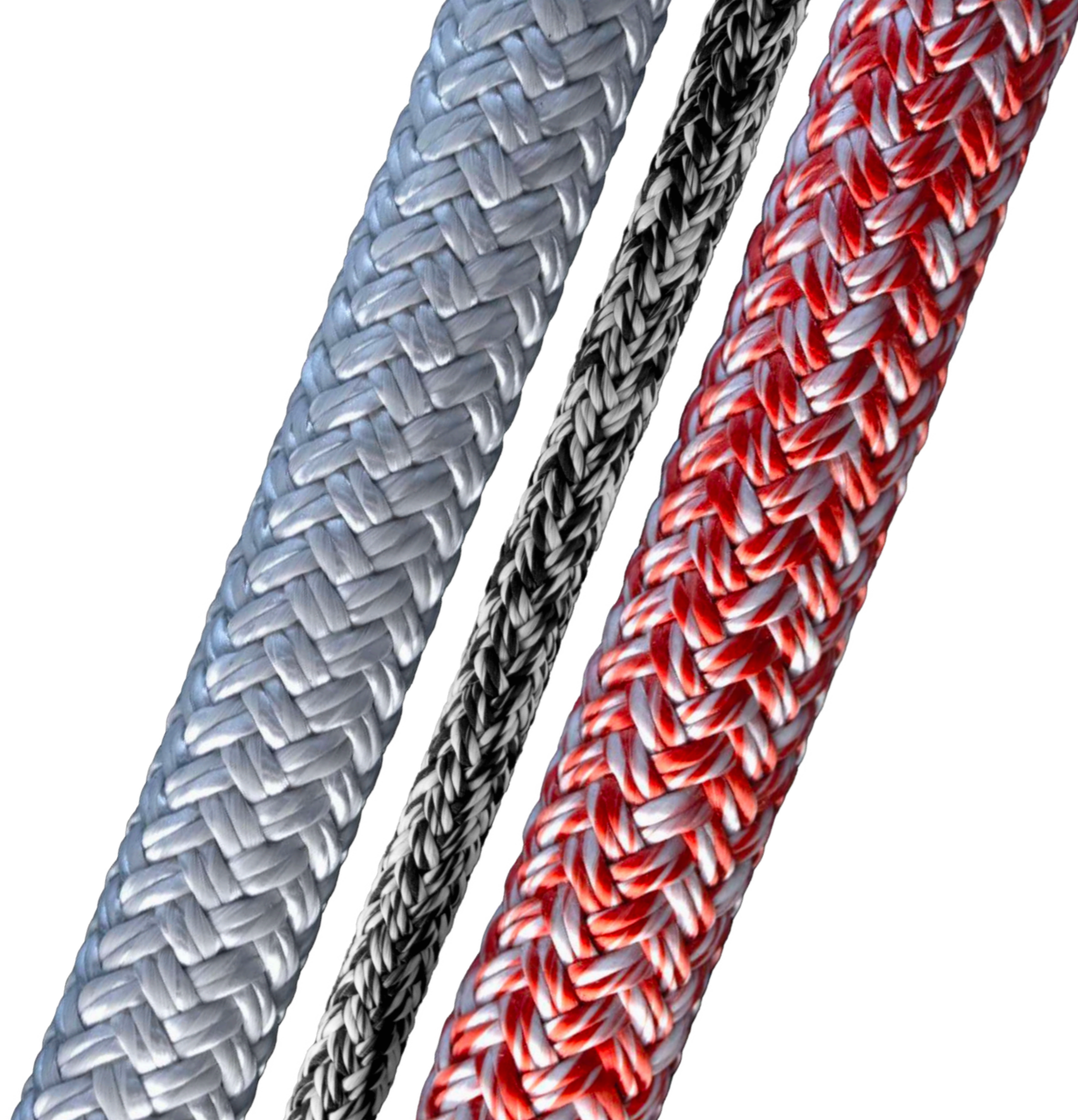
Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554



# UltraPES

PERFORMANCE

The best choice for cruising-race boats - a much stronger rope to replace standard double-braid polyester lines in halyards and sheets for a better elongation and load performance



## Velo UltraPES



Cover in high-quality polyester

Core in high-performance Spectra® with minimal stretching

Exclusive braiding and construction technique by V.elo.

### Technical Sheet

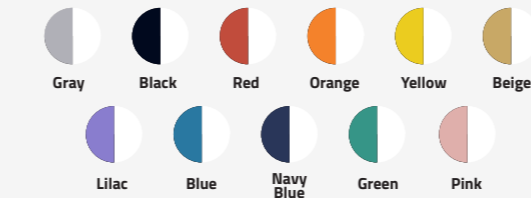


#### CORE

Spectra®

Premium Polyester

#### COLORS



#### IDEAL FOR

Halyards and sheets for cruising boats larger than 30

- Greater resistance to loads
- Significantly less stretching
- Lighter rope

### Variations and colors

Gray + Color

1,5 ~ 8 mm | 16 plait cover



10 mm + | 24 plait cover



DIAMETER (mm)	5	6	7	8	10	12	14	16	18	20	22	24
MBL (kgf)	1.801	2.697	2.693	3.586	5.363	7.740	10.550	13.800	17.450	21.550	26.100	31.050
LINEAR WEIGHT (g/m)	17,6	23,1	27,8	37,4	49,0	70,2	95,5	125,0	158,0	195,0	236,0	281,0

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554



# FlexPES Mooring

CRUISING

UPDATED

Flexible rope with high stretch for applications that require flexibility to preserve the boat's cleats and ease of handling in mooring and docking.

**UPDATED:** Changes in the construction of the rope for greater softness and flexibility in both the cover and the core.



## V FlexPES Mooring



**NEW** - Easier splice construction

Polypropylene core with higher elongation rates to protect the boat's cleats

Lightweight mooring line

### Technical Sheet

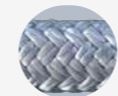


#### CORE

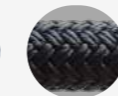
Polypropylene

Premium Polyester

#### COLORS



Gray



Black

#### IDEAL FOR

Mooring at piers and similar structures

- Elasticity to preserve the boat's cleats
- Softness and easy handling for docking

### Variations and colors

Smooth Pattern



DIAMETER (mm)	8	10	12	14	16	18	20
MBL (kgf)	1.267	1.948	2.425	3.246	4.351	4.998	6.526
LINEAR WEIGHT (g/m)	42,3	63	76,5	102,1	151,6	160,6	225,8

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554




# *Specialized Design*

*Greater performance for specific applications of sailboats.*

Specialized Design Ropes are constructions designed for specific applications or specific vessels. From the choice of materials to the developed braid, everything is done to deliver the highest performance of the sailboat.

# DyCore Plus



-  **Dyneema®**  
Single braid of Dyneema® SK78 with specialized protective coating
- A more vertical braid resulting in less stretch
- Easier to splice

**NEW**

Dyneema® SK78 with coating in protective coating, in a specific construction with a more vertical braid, for minimal stretch, not recommended for complex systems and exposed to high friction.

 **Dyneema®**

DIAMETER (mm)	2	3	4	5	6	8	10	12	14	16	18	20
MBL (kgf)	520	1.039	1.557	2.591	3.105	6.191	9.259	13.250	17.900	23.250	29.250	35.950
LINEAR WEIGHT (g/m)	2,5	4,8	7,5	11,5	14,5	28,0	41,8	59,5	80,5	104,5	131,5	161,5

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554

### Technical Sheet



**CORE**  
Dyneema® SK78 with protective coating      N/A

**COLORS**

Black    Orange    Green    Gray    Yellow    Blue    Red

**IDEAL FOR**  
Constant load and high precision systems, ideal for use in halyards and purchase systems with splice.

- Minimal stretch
- Flexibility and ease of splicing
- High-precision constant load system

# DyCore 99



-  **Dyneema®**  
Single braid of Dyneema® SK99 with specialized protective coating
- Minimal stretch for high-tension systems

Dyneema® SK99 with coating in protective coating, in a specially designed version for minimal stretch and high-tension systems.

**EXTRA:** All ropes that use Dyneema® SK-78 can also be constructed with Dyneema SK-99. A thread with even higher breaking load and zero deformation even after years of continuous use under high loads. Mainly used in backstays, runners, halyards, and synthetic fiber rigging of high-performance boats.

 **Dyneema®**

DIAMETER (mm)	1,5	2	3	4	5	6	8	10	12	14	16	18	20
MBL (kgf)	367	733	1.465	2.194	3.651	4.375	8.724	13.048	18.750	25.400	33.100	41.750	51.400
LINEAR WEIGHT (g/m)	1,2	2,5	4,8	7,5	11,5	14,5	28,0	41,8	59,5	80,5	104,5	131,5	161,5

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554

### Technical Sheet



**CORE**  
Dyneema® SK99 with protective coating      N/A

**COLORS**

Black    Orange    Green    Gray    Yellow    Blue    Red

**IDEAL FOR**  
Control ropes with maximum precision, such as backstays, runners, halyards, and synthetic fiber rigging of high-performance boats.

- Protective coating for Extreme Tension and High Precision
- Lightweight and flexible rope

## DyTech Grip



 Dyneema®

Dyneema® SK78 with specialized protective coating

Cover developed to generate greater grip in applications with high friction and wear of the ropes

Rope from the DyTech family with a cover composed of 80% Technora® and 20% polyester. The cover is braided with 24 strands even for versions of 8mm and below to increase durability in applications with high friction and wear.

 Dyneema®

DIAMETER (mm)	4	6	7	8	9	10	12	14	16	18	20	22	24
MBL (kgf)	1.038	2.328	3.047	3.960	4.637	5.450	7.580	10.150	13.080	16.350	19.980	23.950	28.300
LINEAR WEIGHT (g/m)	13,6	27,5	36,5	44,1	56,0	64,0	89,6	120,5	155,0	194,5	238,5	286,8	339,5

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554

### Technical Sheet

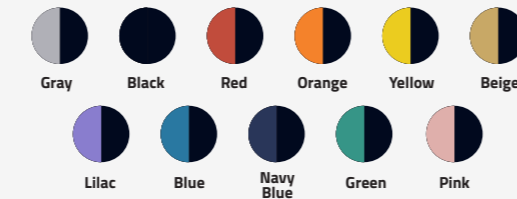
#### CORE

Dyneema® SK78 with protective coating

#### COVER

80% Technora® & 20% Premium Polyester

#### COLORS



#### IDEAL FOR

Runners, sheets, halyards, and controls that require greater grip on automatic and manual winches.

- Greater control and grip
- Harder rope
- Differentiated braid

## DyTech 99



 Dyneema®

Single braid of Dyneema® SK99 with specialized protective coating

Cover composed of Technora® in yellow and black colors with premium polyester

High-performance rope developed for extreme loads and minimal stretch in precision systems such as halyards and backstays.

 Dyneema®

DIAMETER (mm)	4	6	8	9	10	12	14	16	18	20	22	24
MBL (kgf)	1.463	3.281	4.362	5.808	5.830	8.180	10.950	14.150	17.750	21.750	26.150	31.000
LINEAR WEIGHT (g/m)	13,6	27,5	44,1	56,0	64,0	89,6	120,5	155,0	194,5	238,5	286,8	339,5

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554

### Technical Sheet

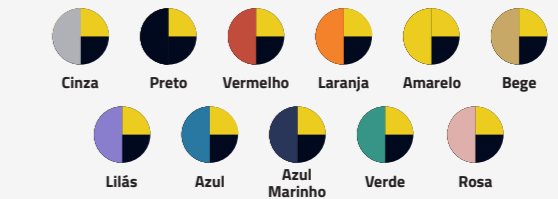
#### CORE

Dyneema® SK99 with protective coating

#### COVER

50% Technora® & 50% Premium Polyester

#### COLORS



#### IDEAL FOR

High-performance runners and halyards for boats over 40 feet

- Stiffer rope
- Core with coating for extreme resistance and constant loads

## V// DyTech Pro



**Dyneema®**

Dyneema® SK78 with specialized protective coating

Cover with a blend of Dyneema® and Technora®

Lightweight rope construction for specialized applications.

## V// DyTech Sheet



**Dyneema®**

Core of Dyneema® SK78 with specialized protective coating

Tighter weave for increased resistance in applications with the core exposed.

Cover made of Technora®, Dyneema®, and Polyester

**NEW**

Variation of the DyTech rope with a cover composed of Technora® and Dyneema® SK78. A even more robust rope that delivers superior control and grip in applications requiring less friction.

**UPDATED:** Change in the construction of sheaths for gauges from 6 to 8mm for increased abrasion resistance, higher breaking load, and even less elongation.

**Up to 5mm = 16 strands, from 6mm onwards = 24 strands.**

New visual with color options for the cover by adding a colored filament.

**Dyneema®**

DIAMETER (mm)	4	6	7	8	9	10	12	14	16	18	20	22	24
MBL (kgf)	1.038	2.328	3.047	3.960	4.637	5.450	7.580	10.150	13.080	16.350	19.980	23.950	28.300
LINEAR WEIGHT (g/m)	13,6	27,5	36,5	44,1	56,0	64,0	89,6	120,5	155,0	194,5	238,5	286,8	339,5

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554

### Technical Sheet

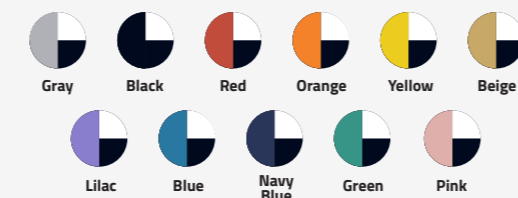


#### CORE

Dyneema® SK78 with protective coating

50% Technora® & 50% Dyneema® SK78

#### COLORS



#### IDEAL FOR

Sheets and control ropes that require less friction in blocks and pulleys.

- Higher performance in abrasion
- Good sliding in blocks and systems
- Less stiff rope than DyTech Grip

**NEW**

Variation of the DyTech cable family ideal for high-performance sheets application. With the addition of Dyneema® SK78 fibers in the cover, it ensures better performance in applications with less friction such as blocks and pulleys.

**UPDATED:** Change in the construction of sheaths for gauges from 6 to 8mm for increased abrasion resistance, higher breaking load, and even less elongation.  
**Up to 5mm = 16 strands, from 6mm onwards = 24 strands.**

Adjustment in the core braid for improved abrasion resistance in applications with the core end exposed.

**Dyneema®**

DIAMETER (mm)	7	8	10	12	14	16	18	20	22	24
MBL (kgf)	2.325	3.096	5.401	8.850	13.520	19.550	27.150	36.520	47.850	61.350
LINEAR WEIGHT (g/m)	33,4	40,4	63,5	90,5	122,0	158,5	200,0	245,5	296,0	351,5

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554

### Technical Sheet

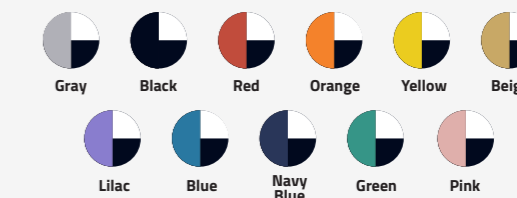


#### CORE

Dyneema® SK78 with protective coating

Technora®, Dyneema® & Polyester

#### COLORS



#### IDEAL FOR


Sheets and control lines requiring less friction in blocks and pulleys.

- Highly resistant to abrasion
- Does not easily kink
- Comfortable in hand

## // DyCover



 Dyneema®  
Cover of Dyneema® SK78

 Cover for ropes that undergo high friction and abrasion

Anti-chafe cover made entirely of Dyneema® SK78. Especially relevant for ropes with high abrasion in a specific location - such as the tip of a halyard or sheet with constant friction at the mast entry/exit point and/or rigging.

**UPDATED:** Changes in the rope construction for greater malleability and ease of application, and for a smoother build, further increasing abrasion resistance.



### Technical Sheet



**CORE**  
N/A

**COVER**  
Dyneema® SK78

#### COLORS



White

#### IDEAL FOR


Recommended for the ends of sheets and halyards with abrasion at the mast exit, mast foot, or other hardware. Not recommended for use in clutches or clutches due to its very low grip.

- Cover with high abrasion resistance
- Compatible with various ropes and applications

## // Black DyCover



 Dyneema®  
Cover of Dyneema® SK78

 Cover for ropes that undergo high friction and abrasion



Abrasion-resistant cover made entirely from natural black Black Dyneema® BK75 fiber, offering up to 8× greater UV resistance. Particularly relevant for lines subject to high abrasion in specific areas—such as the end of a halyard or a sheet experiencing constant friction at mast entry/exit and/or rigging.

**ATUALIZADO:** Mudanças na construção do cabo para maior maleabilidade e facilidade de aplicação e para construção mais lisa, aumentando ainda mais a resistência à abrasão



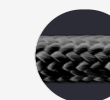
### Technical Sheet



**CORE**  
N/A

**COVER**  
Dyneema® SK78

#### COLORS



Black

#### IDEAL FOR

Recommended for the ends of sheets and halyards with abrasion at the mast exit, mast foot, or other hardware. Not recommended for use in clutches or clutches due to its very low grip.

- Cover with high abrasion resistance
- Compatible with various ropes and applications

## ZyCover



**NEW**

Anti-abrasion cover made entirely from Zylon® (PBO), one of the most extreme fibers available for high-performance running rigging systems. Designed for applications where load, heat, and constant friction quickly destroy conventional covers. Especially suited for critical areas on runners, backstays, halyards, and sheets operating under heavy load through stoppers, ratchets, turning points, and mast exits.

**AVISO:** As with all PBO/Zylon® fibers, continuous UV exposure should be minimized when not in operation.

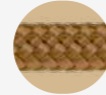
### Technical Sheet



**CORE**  
N/A

**COVER**  
100% Zylon® (PBO)

### COLORS



Copper

### IDEAL FOR

Protection of halyard ends, runners, backstays, high-load sheets, and high-friction points in ratchets, stoppers, hardware, and mast exits.

- Extreme abrasion and heat resistance
- Excellent stability under constant load
- Developed for Grand Prix and maxi yacht applications

## ZyTech



**NEW**

Cover made from a blend of Zylon® (PBO) and Technora®, combining extreme heat and abrasion resistance with a more balanced hand feel and improved handling control. A solution developed for applications constantly subjected to load, friction, and pressure — such as runners, halyards, backstays, and sheets operating under high friction through stoppers, ratchets, and turning points. The fiber combination delivers more versatile and balanced long-term performance compared to constructions made solely from PBO.

**AVISO:** As with all PBO/Zylon® fibers, continuous UV exposure should be minimized when not in operation.

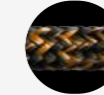
### Technical Sheet



**CORE**  
N/A

**COVER**  
50% Zylon® (PBO)  
50% Technora®

### COLORS



Black

### IDEAL FOR

Protection for sheets, runners, halyards, and control lines subjected to high friction in ratchets, stoppers, blocks, and hardware.

- Excellent thermal and abrasion resistance
- Increased grip and control compared to pure PBO
- Balanced combination of durability, grip, and extreme performance



## V// Dinghy Sheet



New cover construction for increased grip and abrasion resistance

Cover composed of Technora®, Dyneema® SK78 and Premium Polyester

Designed for high-performance Optimist class sheets. A mix of Technora®, Dyneema®, and polyester ensuring good grip, abrasion resistance, and softness.

**UPDATED:** New construction with a 16-strand cover for better abrasion resistance.



DIAMETER (mm)	7
MBL (kgf)	1.795
LINEAR WEIGHT (g/m)	35,2

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554



### Technical Sheet

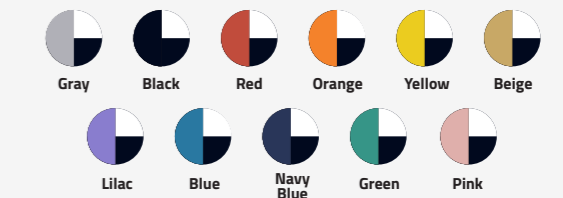
#### CORE

Polypropylene

#### COVER

Technora®, Dyneema® & Polyester

#### COLORS



#### IDEAL FOR

Optimist mainsheet

- Highly resistant to abrasion
- Does not easily kink
- Comfortable in hand

## V// LaserSheet



A smoother and stiffer braid ideal for knot reduction

Ideal for ILCA mainsheets

**NOVO**

Specially designed for ILCA mainsheets with a smoother and stiffer braid to prevent the formation of unwanted knots, and with materials that do not absorb water.

**UPDATED:** Constructive changes for a rounder and stiffer rope, improving abrasion resistance and reducing the likelihood of knots interfering with maneuvers.

DIAMETER (mm)	6	7
MBL (kgf)	579	722
LINEAR WEIGHT (g/m)	25,4	34,6

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554

### Technical Sheet



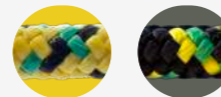
#### CORE

Polypropylene

#### COVER

Premium Polyester

#### COLORS



Yellow

Black

#### IDEAL FOR

Specific mainsheet for ILCA/Laser class

- Developed specifically for the class
- Does not absorb water
- Smoother braid

## V// PES Soft



Soft polyester for greater softness and comfort in the hands

Core made of high-quality pre-stretched polyester for comfort

Variation of the PES line with a cover constructed of spun polyester, ensuring unparalleled softness and greater comfort in the hands.

DIAMETER (mm)	6	7	8	10
MBL (kgf)	499	768	976	1.077
LINEAR WEIGHT (g/m)	27,7	35,2	40,1	70,7

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554

### Technical Sheet



#### CORE

Pre-Stretched Premium Polyester

#### COVER

70% Soft Polyester & 30% Premium Polyester

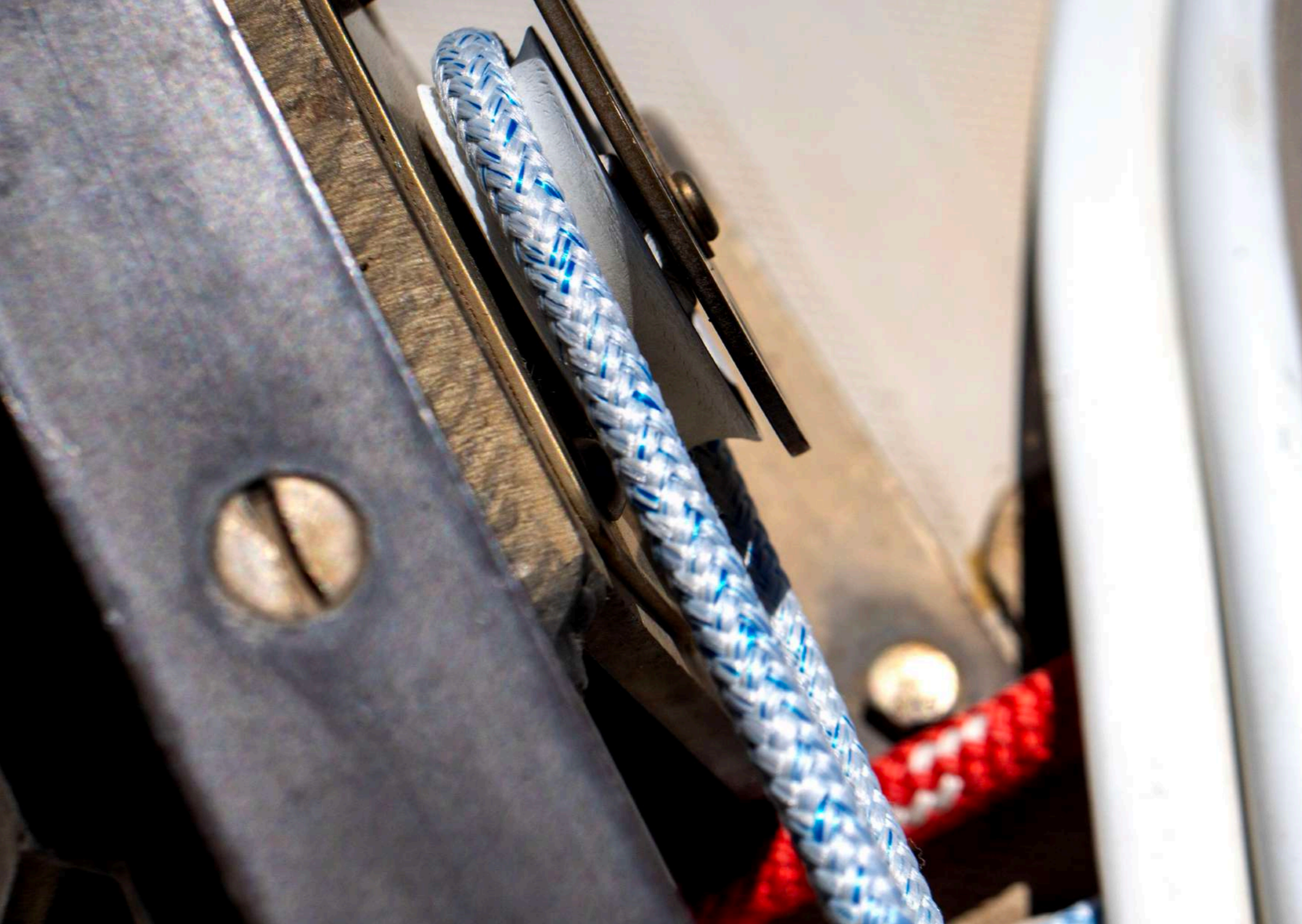
#### CORES



#### IDEAL FOR

Sheets and control lines for cruising boats

- Extremely soft rope
- Excellent handling and comfortable grip



## V// PES Grip



Braided with a tighter angle for greater grip

Ideal for headsail furlers

Variation of the PES line with a construction designed for a cover with greater grip and more adhesion. The cover is made with high grip to ensure adherence to the drum of the headsail furlers, ensuring their functionality.

DIAMETER (mm)	7	9
MBL (kgf)	975	1.834
LINEAR WEIGHT (g/m)	39,6	60,6

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554

### Technical Sheet

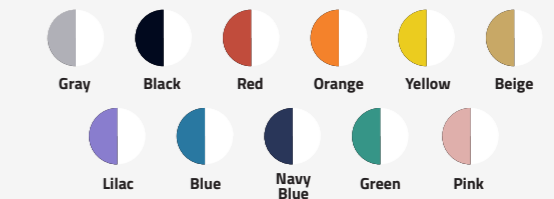


#### CORE

Pre-stretched  
Premium Polyester

Premium  
Polyester

#### COLORS



#### IDEAL FOR

Specially developed for use in headsail furlers

- Máximum grip
- Great UV and abrasion resistant

# V// PES Core Coat



Coreless construction ideal for facilitating stitching and splicing

Single braid of premium polyester, very light and easy to handle

**NEW**

Single braid construction of polyester for a lightweight and very easy to stitch rope.

Coreless construction resulting in a lightweight and very easy to splice rope. Construction specially designed for use in lazy jacks, canvas applications, and marine applications in sailboats.

DIAMETER (mm)	5	6
MBL (kgf)	652	868
LINEAR WEIGHT (g/m)	18,9	24,2

Complying with NBR ISO 2307 & 9554 / Conforme NBR ISO 2307 & 9554

## Technical Sheet

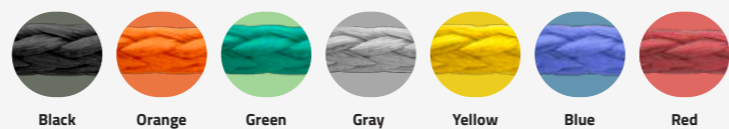


### CORE

Pre-stretched Premium Polyester

N/A

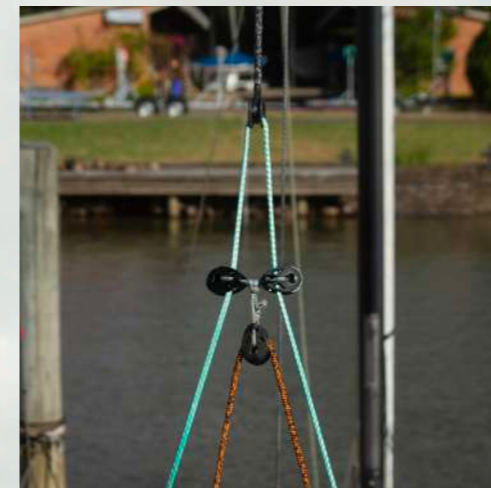
### COLORS



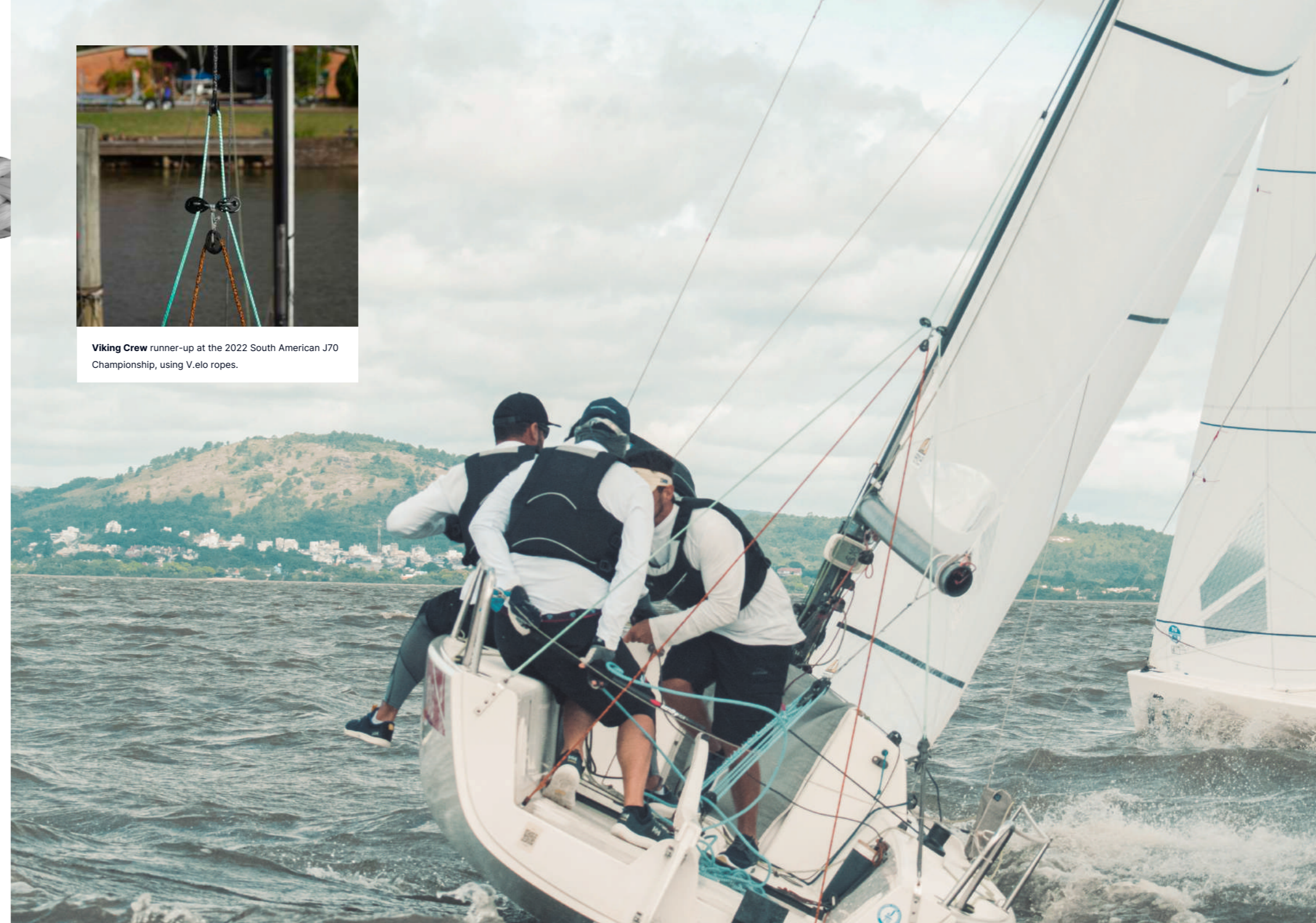
### IDEAL FOR

Lazy jack, canvas, and marine hardware

- Construction developed for stitching
- Easy splice
- Extremely lightweight



Viking Crew runner-up at the 2022 South American J70 Championship, using V.elo ropes.



**DYCORE PLUS**

Coated Dyneema® SK78 rope single braided in wide angles

DIAMETER (mm)	2	3	4	5	6	8	10
MBL (kgf)	520	1.039	1.557	2.591	3.105	6.191	9.259
LINEAR WEIGHT (g/m)	2,5	4,8	7,5	11,5	14,5	28,0	41,8

**DYCORE COMPACT**

Coated Dyneema® SK78 rope single braided in tight angles

DIAMETER (mm)	2	3	4	5	6	8	10
MBL (kgf)	458	915	1.370	2.280	2.732	5.448	8.148
LINEAR WEIGHT (g/m)	2,5	4,8	7,5	11,5	14,5	28,0	41,8

**DYCORE 99**

Coated Dyneema® SK99 single braided rope

DIAMETER (mm)	1,5	2	3	4	5	6	8	10
MBL (kgf)	367	733	1.465	2.194	3.651	4.375	8.724	13.048
LINEAR WEIGHT (g/m)	1,2	2,5	4,8	7,5	11,5	14,5	28,0	41,8

**PES PRE-STRETCHED / PES PRÉ-ESTIRADO**

Double braided pre-stretched polyester rope

DIAMETER (mm)	2	3	4	5	6	7	8	9	10	12	14	16	18
MBL (kgf)	109	218	399	598	958	1.372	1.729	2.158	2.584	3.540	4.702	5.643	7.000
LINEAR WEIGHT (g/m)	4,1	7,9	12,6	17,9	29,4	41,4	51,5	80,5	71,9	102,1	144,4	183,2	227,9

**ULTRAPES**

Spectra® non coated core with polyester cover

DIAMETER (mm)	6	7	8	10	12	14
MBL (kgf)	1.927	2.966	3.554	4.780	6.670	8.150
LINEAR WEIGHT (g/m)	26,8	33,7	42,6	66,3	86,7	117,0

**PES SOFT**

Double braided pre-stretched polyester rope with soft cover

DIAMETER (mm)	6	7	8	10
MBL (kgf)	499	768	976	1.077
LINEAR WEIGHT (g/m)	27,7	35,2	40,1	70,7

**PES GRIP**

Double braided polyester rope with grip cover

DIAMETER (mm)	7	9
MBL (kgf)	975	1.834
LINEAR WEIGHT (g/m)	39,6	60,6

**DYPES**

Coated Dyneema® SK78 core with polyester cover

DIAMETER (mm)	1,5	2	3	4	5	6	7	8	9	10	12	14
MBL (kgf)	130	173	520	1.038	1.555	2.328	3.047	3.960	4.637	5.450	7.580	9.640
LINEAR WEIGHT (g/m)	1,9	3,5	7,3	12,1	19,2	26,9	33,7	42,6	44,6	66,3	86,7	117,0

**DYTECH**

Coated Dyneema® SK78 core with Technora® and polyester cover

DIAMETER (mm)	4	6	7	8	9	10	12
MBL (kgf)	1.038	2.328	3.047	3.960	4.637	5.450	7.580
LINEAR WEIGHT (g/m)	13,6	27,5	36,5	44,1	56,0	64,0	89,6

**DYTECH 99**

Coated Dyneema® SK99 core with Technora® and polyester cover

DIAMETER (mm)	4	6	8	9	10	12
MBL (kgf)	1.463	3.281	4.362	5.808	5.830	8.180
LINEAR WEIGHT (g/m)	13,6	27,5	44,1	56,0	64,0	89,6

**DYTECH SHEET**

Coated Dyneema® SK78 with Technora® & Dyneema®

DIAMETER (mm)	7	8	10
MBL (kgf)	2.325	3.096	5.401
LINEAR WEIGHT (g/m)	33,4	40,4	63,5

**LASERSHEET**

Specially designer Laser/ILCA mainsheet

DIAMETER (mm)	6	7
MBL (kgf)	579	722
LINEAR WEIGHT (g/m)	25,4	34,6

**DINGHY SHEET**

Specially designer Optimist mainsheet

DIAMETER (mm)	7
MBL (kgf)	1.795
LINEAR WEIGHT (g/m)	35,2

**ULTRASHEET**

Spectra® and polyester single braided rope

DIAMETER (mm)	5	6	7	8	10
MBL (kgf)	1.801	2.697	2.693	3.586	5.363
LINEAR WEIGHT (g/m)	17,6	23,1	27,8	37,4	49,0

**MOORING / AMARRAÇÃO**

Polypropylene core for high elongation mooring line

DIAMETER (mm)	8	10	12	14	16	18	20
MBL (kgf)	1.267	1.948	2.425	3.246	4.351	4.998	6.526
LINEAR WEIGHT (g/m)	42,3	63	76,5	102,1	151,6	160,6	225,8

**PES CORE**

Polyester single braided rope

DIAMETER (mm)	5	6
MBL (kgf)	652	868
LINEAR WEIGHT (g/m)	18,9	24,2



How to choose your sailing rope

**ELONGATION RATE**

The elongation rate is an important factor to consider when choosing a rope. It refers to the measure of a rope's elasticity, usually calculated by applying 50% of its breaking load.

**FACTORS THAT INFLUENCE A ROPE'S ELONGATION RATE**

**ROPE MATERIAL**

**Dyneema® e Spectra**

Less elongation

**ROPE DIAMETER**

**Greater diameter**

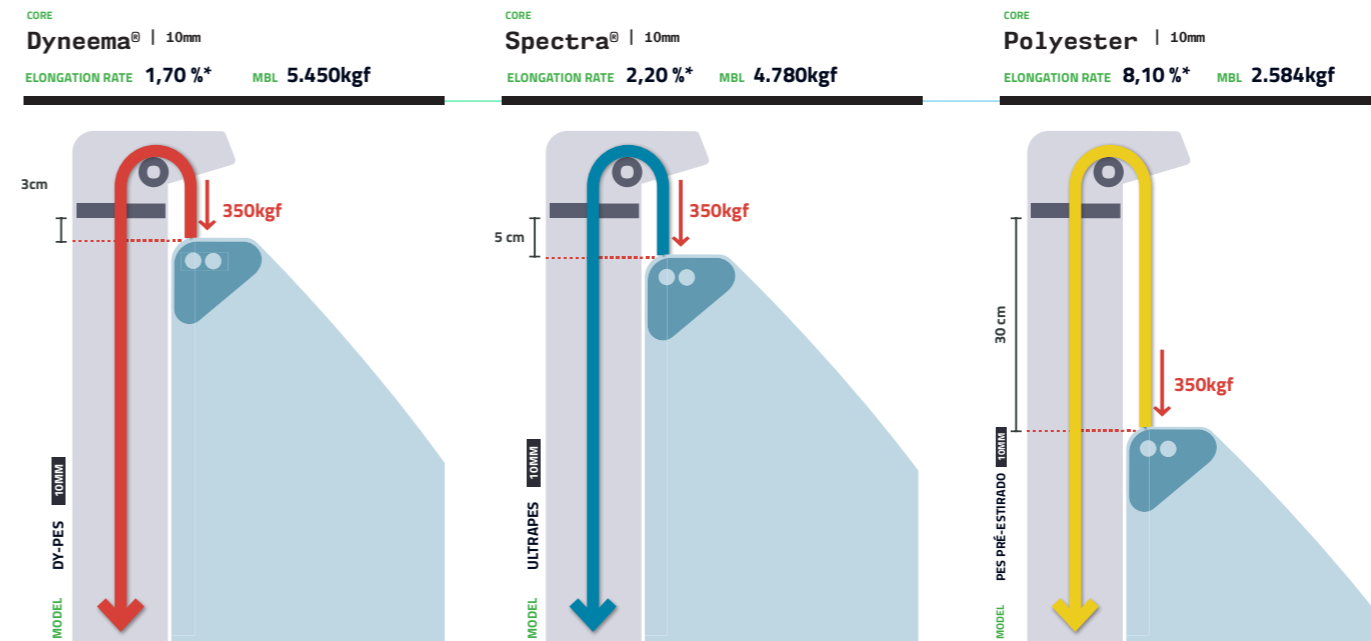
Less elongation

**BRAID ANGLE**

**Wider braid**

Less elongation

In the simulation below, we present the difference in elongation of a 30-meter halyard, with 15 meters under a constant load of 350 kgf.



\*Calculated by applying 50% of its breaking

**ABRASION RESISTANT**

Due to constant loads, friction, and pressure generated by blocks, winches, and clutches, the rope's resistance to these forces is crucial for its durability.

COVER

**Technora®**

MODEL DY-

High heat resistance

High compression resistance

Stiffer rope

Cover with more grip

Greater durability in winches and clutches

COVER

**Poliéster**

MODEL DY-

High UV resistance

Wide variety of colors

More flexible ropes

Softer cover

Better handling feel

*Sheets and Halyards*

## **DIAMETER GUIDE**

The table describes our guidelines for the diameters of sheets and halyards with a polyester core. For high-performance ropes with a Dyneema® core, the diameters can be approximately 2mm smaller. Typically, the diameter of sheets and halyards should be compatible with the clutches, cleats, and sheaves on board. It is recommended to choose a rope that is 1-2mm thinner than the maximum diameter allowed by the block.

Boat Length	Sheets			Halyards 		
	Main	Genoa	Spinnaker	Main	Genoa	Spinnaker
20-26 ft / 6-8 m	10 mm	10 mm	8 mm	8 mm	8 mm	8 mm
30-36 ft / 9-11 m	12 mm	12 mm	10 mm	10 mm	10 mm	10 mm
40-46 ft / 12-14 m	12 mm	14 mm	12 mm	12 mm	12 mm	12 mm
53-59 ft / 16-18 m	14 mm	14 mm	14 mm	14 mm	14 mm	14 mm



*Sheets and Halyards*

## ***LENGTH GUIDE***

These are general guidelines for calculating the average length of sail lines and may vary from boat to boat. The best reference for the ideal length of halyards, sheets, and control lines is to measure or compare them to a rope in use on the boat and start a personal record for future reference.

**HALYARDS**  
2.5 TO 3X MAST LENGTH

**MAIN SHEET**  
BOOM LENGTH X PURCHASE  
SYSTEM RATIO\*

**JIB SHEET**  
1 TO 1.5X BOAT LENGTH

**GENOA SHEET**  
1.5 TO 2X BOAT LENGTH

**SPINNAKER SHEET**  
2.5 TO 3X BOAT LENGTH

**SPI POLE LIFT**  
2X MAST LENGTH

**SPI POLE DOWN**  
1.5X BOAT LENGTH

**FURLERLINE HEADSAIL**  
BOAT LENGTH + LENGTH OF  
SAIL FOOT

**OUTHAUL**  
2 TO 3X BOOM LENGTH

**GENNAKER TACKLINE**  
/SPINNAKER GUY  
1.5 TO 2X BOAT LENGTH

**VANG**  
2 TO 3X BOOM LENGTH

**CUNNINGHAM**  
1X BOOM LENGTH

**REEFING LINE**  
2.5 TO 3X BOOM LENGTH

**MOORING LINE**  
1.5X BOAT LENGTH



**Xamá Crew** in their participation at the 53rd Rio Circuit with V.elo ropes.



***Get in Touch***

*vendas@velosailing.com*

*@velosailing on instagram*

***velosailing.com***