

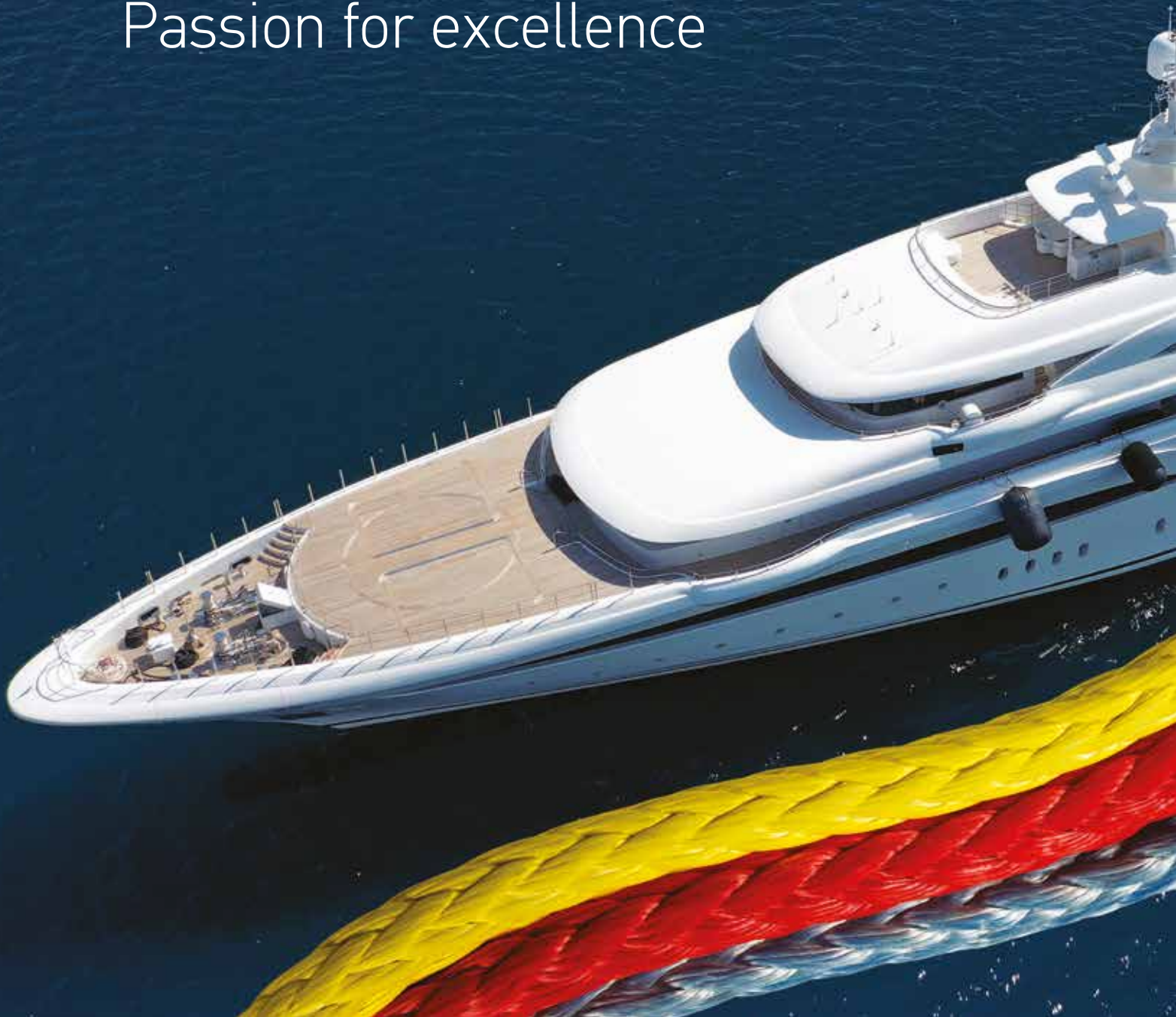


EST. 1936

KATRADIS GROUP OF COMPANIES

Yachting Ropes

Passion for excellence





KATRADIS GROUP OF COMPANIES

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Mooring Ropes

KATRADIS Marine Ropes SA offers a wide range of premium quality ropes specially designed for Yachts and Mega-Yachts, the Docko Series. Apart from using only the best and strongest fibers, the main concept behind these premium line ropes is to treat every yacht individually and offer custom made solutions, ensuring the satisfaction of every need.



Docko PES is the first choice for yacht mooring. Docko PES Ropes exhibit excellent performance offering a wide range of colors and constructions suitable for your boat.

DOCKO PES

Docko PES 12/24 Strands



Material:
High Tenacity Polyester

Construction:
12/24STR

Features:
Excellent strength
Excellent abrasion resistance
Excellent resistance to UV sunlight
Excellent resistance to chemicals
Medium elasticity

Applications:
Mooring line
Anchoring line
Docking

Available Colors:
Black, Navy, Grey



Diam	Weight	MBL
mm	Kg/100m	(kgf)
8	5,1	1.800
10	8	2.600
12	11,5	3.400
14	15,8	4.800
16	21	5.900
18	26,1	7.900
20	31,7	9.650
22	39,5	11.500
24	45	13.700
26	54,5	16.000
28	62	18.800
30	72,4	20.450
32	82,5	23.900
34	92,5	26.550
36	102	29.750
40	122	35.200

Docko PES DB



Material:
High Tenacity Polyester

Construction:
12/16STR Polyester core
24/32STR Polyester cover

Features:
Excellent strength
Excellent abrasion resistance
Excellent resistance to UV sunlight,
Excellent resistance to chemicals
Medium elasticity

Applications:
Mooring line
Anchoring line
Docking

Available Colors:
Black, Navy Grey



Diam	Weight	MBL
mm	Kg/100m	(kgf)
8	5,1	1.850
10	8,1	2.650
12	11,6	3.450
14	15,9	4.900
16	21,2	5.950
18	26,3	7.950
20	31,9	9.700
22	39,8	11.600
24	45,5	14.000
26	55	16.200
28	62,7	19.100
30	72,8	20.900
32	82,8	24.200
34	93,5	27.100
36	102,9	30.000
40	122,1	37.500



DOCKO TWIST

Docko Twist PES



Material:
High Tenacity Polyester

Construction:
3 Strands Twisted

Features:
Very good strength
Very easy to splice
Excellent abrasion resistance
Medium elasticity

Applications:
Mooring line
Anchoring line

Available Colors:
Black, Navy, White



Diam	Weight	MBL
mm	Kg/100m	(kgf)
6	3	800
8	5	1.250
10	8	1.950
12	12	2.800
14	16	3.700
16	20,5	4.900
18	26	5.800
20	32	7.100
22	38,5	8.400
24	45	10.300
26	53,5	12.100
28	61,5	13.200
30	72	15.200
32	80,5	17.300
34	92,5	19.400
36	102	22.300
40	121	28.500



Docko Nylon ropes are ideal for applications where high elasticity is required. Bright white Nylon ropes come in a variety of constructions.

DOCKO NYL

Docko NYL 12/24 Strands



Material:
Polyamide (Nylon)

Construction:
12/24STR

Features:
Excellent strength
Very good abrasion resistance
Excellent resistance to UV sunlight
Excellent resistance to chemicals
Excellent shock load absorption
High elongation properties - High elasticity

Applications:
Mooring line
Anchoring line

Available Colors:
White

Diam	Weight	MBL
mm	Kg/100m	(kgf)
8	4,1	1.650
10	6,4	2.430
12	9	3.500
14	12,8	4.600
16	16,5	5.900
18	21,2	7.480
20	24,9	9.250
22	30,1	12.000
24	36,2	16.100
26	41,8	17.500
28	49,1	20.000
30	57	21.900
32	64,5	24.950
34	72,7	27.700
36	80,5	31.700
40	99	39.800



Docko NYL DB



Material:
Polyamide (Nylon)

Construction:
12/16STR Nylon core
24/32STR Nylon cover

Features:
Excellent strength
Very good abrasion resistance
Excellent resistance to UV sunlight
Excellent resistance to chemicals
Excellent shock load absorption
High elongation properties - High elasticity

Applications:
Mooring line
Anchoring line

Available Colors:
White

Diam	Weight	MBL
mm	Kg/100m	(kgf)
8	4,1	1.700
10	6,5	2.500
12	9,1	3.600
14	12,9	4.800
16	16,6	6.000
18	21,4	7.550
20	24,9	9.500
22	30,2	12.150
24	36,4	16.200
26	41,5	18.000
28	50,1	20.400
30	57,6	22.200
32	64,8	25.200
34	72,9	27.900
36	81,5	31.800
40	99,5	40.000



DOCKO TWIST

Docko Twist NYL



Material:
High Tenacity (Nylon)

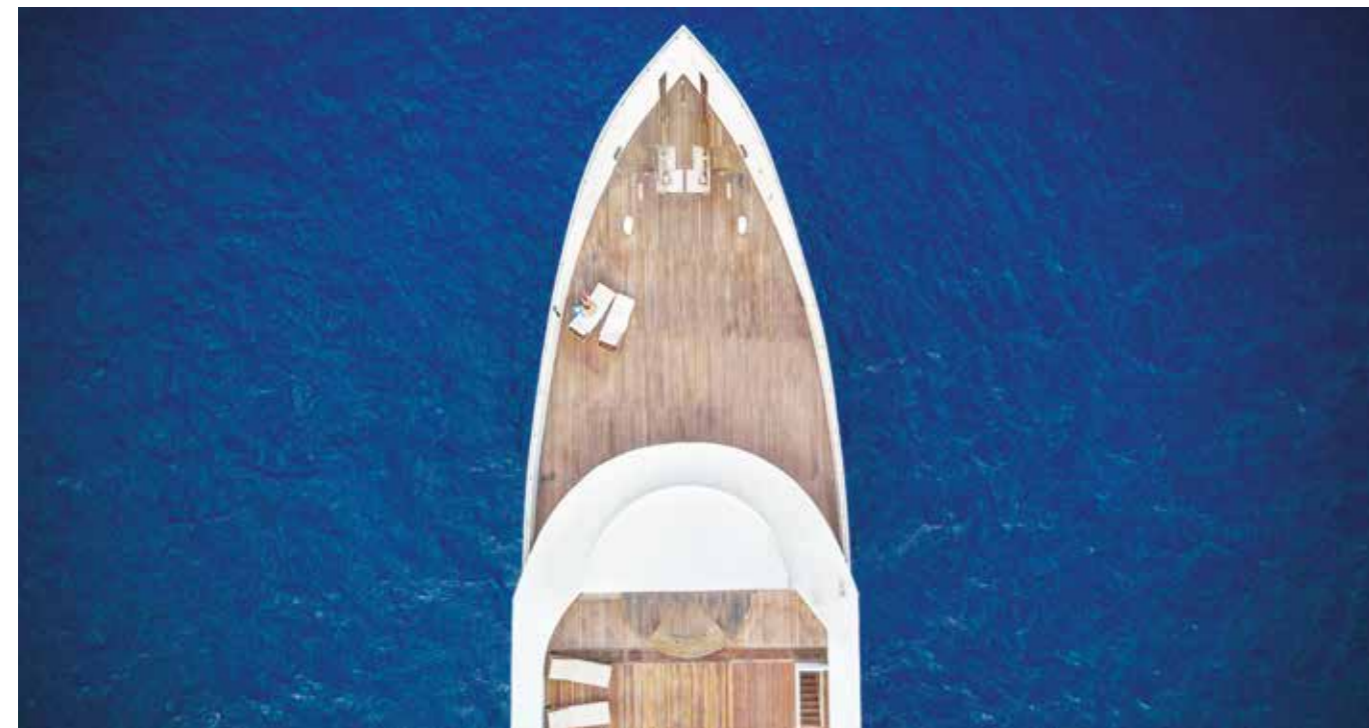
Construction:
3/4 STR Twisted

Features:
Excellent strength
Very good abrasion resistance
Excellent resistance to UV sunlight
Excellent resistance to Chemicals
Excellent shock load absorption
High elongation properties - High elasticity

Applications:
Mooring line
Anchoring line

Available Colors:
White

Diam	Weight	MBL
mm	Kg/100m	(kgf)
6	2,8	800
8	4,5	1.350
10	6,5	2.080
12	9,5	3.000
14	12,5	4.100
16	16,5	5.300
18	21	6.700
20	26	8.300
22	31,5	10.000
24	35	12.000
26	42	14.000
28	48	15.800
30	56	17.800
32	62	20.000
34	71	22.400
36	79,5	24.800
40	98	30.000



Docko Siri Ropes are a premium choice for mega-yacht mooring. They offer maximum tenacity at small diameters and extended lifetime.

DOCKO SIRI®

Cored Siri



Material:
UHMWPE core

Construction:
12Str Siri

Features:
Ultra High strength
Ultra High abrasion resistance
Excellent resistance to UV sunlight
Chemicals
Low/wire-like elasticity

Applications:
Mooring line
Anchoring line
Docking

Available Colors:
Grey, Yellow, Red



Diam	Weight	MBL
mm	Kg/100m	(kgf)
10	6,1	10.500
12	9,3	14.850
14	12,5	17.950
16	16,2	21.200
18	20,5	26.000
20	24,1	34.200
22	30	45.400
24	33	52.500
26	38,5	59.600
28	44,5	67.150
30	53,2	74.250

Docko HP



Material:
UHMWPE core with Polyester cover

Construction:
12STR Aqua-Siri® core
24/32STR Polyester cover

Features:
Ultra High strength
Ultra High abrasion resistance
Excellent resistance to UV sunlight.
Excellent resistance to Chemicals
Low/wire-like elasticity

Applications:
Mooring
Anchor line
Docking

Available Colors:
Black, Navy, Grey



Diam	Weight	MBL
mm	Kg/m	(kgf)
10	6,9	7.500
12	9,8	10.500
14	13,5	13.100
16	17,4	17.100
18	21,5	22.500
20	25,5	26.250
22	31	29.450
24	37,8	41.900
26	45,2	50.200
28	51	59.600
30	57,8	63.350
32	66,8	71.700

Docko HP and Cored Siri for Docking application due to their minimum tenacity, it is recommended to be combined with mooring tails to provide elasticity and protect Yacht's cleats during extreme weather conditions.



DOCKO MULTI

Docko Multi Ropes are fit for applications requiring floating rope properties. These ropes are made from high tenacity Multifilament Polypropylene and offer high strength and high elasticity.

Docko Multi 12 Strands



Material
High Tenacity Multifilament Polypropylene

Applications
Mooring line

Construction:
12 Str Twill

Available colors:
Yellow, red



Features:
Very good strength
Very good abrasion resistance
Floating
Very good resistance to UV sunlight
Very good resistance to Chemicals
High elongation properties - High elasticity

Diam	Weight	MBL
mm	Kg/100m	(kgf)
8	2,9	1.150
10	4,5	1.650
12	6,6	2.350
14	8,9	3.350
16	11,5	4.500
18	15,1	5.500
20	18,8	6.800
22	22,2	7.900
24	26	9.300
26	30,8	11.000
28	35,5	13.100
32	41,0	14.750
36	58,0	21.100
40	72,0	25.500

Docko Multi DB



Material:
High Tenacity Multifilament Polypropylene

Applications:
Mooring line

Construction:
12/24STR Multifilament Polypropylene core
12/24STR Multifilament Polypropylene cover

Available colors:
Yellow, red



Features:
Excellent strength
Very good abrasion resistance
Floating
Excellent resistance to UV sunlight
Excellent resistance to Chemicals
Excellent shock load absorption
High elongation properties - High elasticity

Diam	Weight	MBL
mm	Kg/100m	(kgf)
8	2,9	1.200
10	4,5	1.700
12	6,6	2.400
14	8,9	3.450
16	11,5	4.600
18	15,1	5.600
20	18,8	6.950
22	22,2	7.950
24	26	9.400
26	30,8	11.100
28	35,5	13.250
32	41,0	14.950
36	58,0	22.500
40	72,0	26.200



Sailing/Racing Ropes

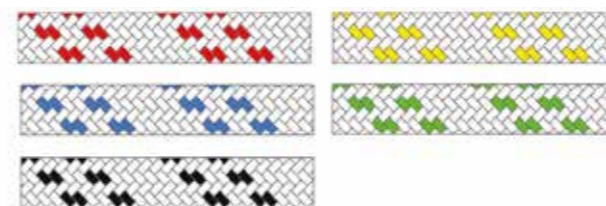
KATRADIS MARINE ROPES SA has developed a special series of high-quality ropes, specifically designed for the demanding sailing/racing sector. Covering a wide range of applications, this series of top quality ropes is an excellent choice when safety and performance are a must.



Endurance Line Ropes are High Quality Polyester Ropes ideal for sailing and dinghy boats. Their main applications are halyards and sheets. Available in plastic reels of 100m & 200m.

ENDURANCE

Endurance PES



Diam	Weight	MBL
mm	Kg/100m	(kgf)
6	2,8	1.100
8	5,1	1.700
10	7,5	2.550
12	12,3	3.350
14	16,2	4.700
16	20,8	5.800
18	26,5	7.800
20	32,5	9.850
22	37,2	11.000

Material:

High Tenacity Polyester
Construction:
 12/16STR Polyester core
 24/32STR Polyester cover

Features:

High Abrasion resistance
 Ease of handling
 High durability
 Medium elasticity

Applications:

Reefing line, Main sheet,
 Genoa sheet, Spi-sheet, Spi-guy,
 Spin pole, Genoa car traveler

Endurance Diamond



Diam	Weight	MBL
mm	Kg/100m	(kgf)
6	2,8	1.100
8	5,1	1.700
10	7,5	2.550
12	12,3	3.350
14	16,2	4.700
16	20,8	5.800
18	26,5	7.800
20	32,5	9.850
22	37,2	11.000

Material:

High Tenacity Polyester
Construction:
 12/16STR Polyester core
 24/32STR Polyester cover

Features:

High Abrasion resistance
 Ease of handling
 High durability
 Low elasticity

Applications:

Main Halyard, Genoa Halyard,
 Spinnaker Halyard, Reefing line,
 Main sheet, Genoa sheet, Spi-sheet,
 Spi-guy, Spin pole,
 Genoa car traveler

DYNA RACING

High performance ropes with over-braided High Tenacity Polyester jacket that provides abrasion resistance for longer service life. Ideal choice for racing applications.

Dyna Siri®



Diam	Weight	MBL
mm	Kg/100m	(kgf)
4	1,00	950
6	2,7	2.350
8	4,1	3.900
10	6,9	7.500
12	9,8	10.500
14	13,5	13.100
16	17,4	17.100
18	21,5	22.500
20	25,5	26.250
22	31	29.450
24	37,8	41.900
26	45,2	50.200
28	51	59.600

Material:
Ultra High Molecular Weight Polyethylene fiber

Features:
Ultra High breaking strength
Low stretch
Long service life
Highly abrasion resistance

Applications:
Main Halyard, Genoa Halyard, Spinnaker Halyard, Reefing line, Main sheet, Genoa sheet, Spi-sheet, Spi-guy, Boomvang, Cunningham, Spin pole

Construction:
12 STR UHMWPE core
24/32STR Polyester cover

Heat-set core



Dyna Line Ropes are manufactured using special coating and heat-setting applications that improve drastically the structure and overall performance (better resistance to abrasion and tension fatigue).

Dyna PRISMA SK78



Diam	Weight	MBL
mm	Kg/100m	(kgf)
4	1,00	1.000
6	2,7	2.400
8	4,1	4.000
10	6,9	7.750
12	9,8	10.650
14	13,5	13.200
16	17,4	17.150
18	21,5	22.700
20	25,5	26.400
22	31	30.000
24	37,8	42.200
26	45,2	50.300
28	51	60.100

Material:
Prisma® SK78 fiber

Features:
Ultra High breaking strength
Low stretch
Long service life
Reduced creep
Highly abrasion resistance

Applications:
Main Halyard, Genoa Halyard, Spinnaker Halyard, Reefing line, Main sheet, Genoa sheet, Spi-sheet, Spi-guy, Boomvang, Cunningham, Spin pole

Construction:
12STR Prisma® SK78 core
24/32STR Polyester cover

Prisma

Heat-set core

Optional Heat-Setting of the load-bearing cores in Dynamic-Siri® and Prisma® Dynamic SK78 for extra strength and performance. Available in plastic reels of 100m & 200m



DYNA RACING

High Performance Ropes with over-braided High Tenacity Polyester jacket that provides abrasion resistance for longer service life. Excellent choice for static loading applications (ideal for halyards).

Dyna Vectran®



Material:
Vectran® Fiber (LCP)

Construction:
12STR Vectran® core
24/32STR Polyester cover

Features:
Extremely high durability
Low stretch
Minimized/ Almost Zero Creep
Extended service life
High Abrasion resistance
Ease of handling
Temperature resistant

Applications:
Main Halyard, Genoa Halyard,
Spi-guy, Main sheet,
Main outhaul, Cunningham

Diam	Weight	MBL
mm	Kg/100m	(kgf)
6	3,0	2.400
8	4,7	3.800
10	7,3	6.700
12	11,0	9.000
14	14,5	11.500
16	18,2	14.500
18	23	18.100
20	28,9	21.200
22	35,2	26.000
24	39,7	35.100

Vectran



Dyna Technora®



Material:
Technora® Fiber (Aramid)

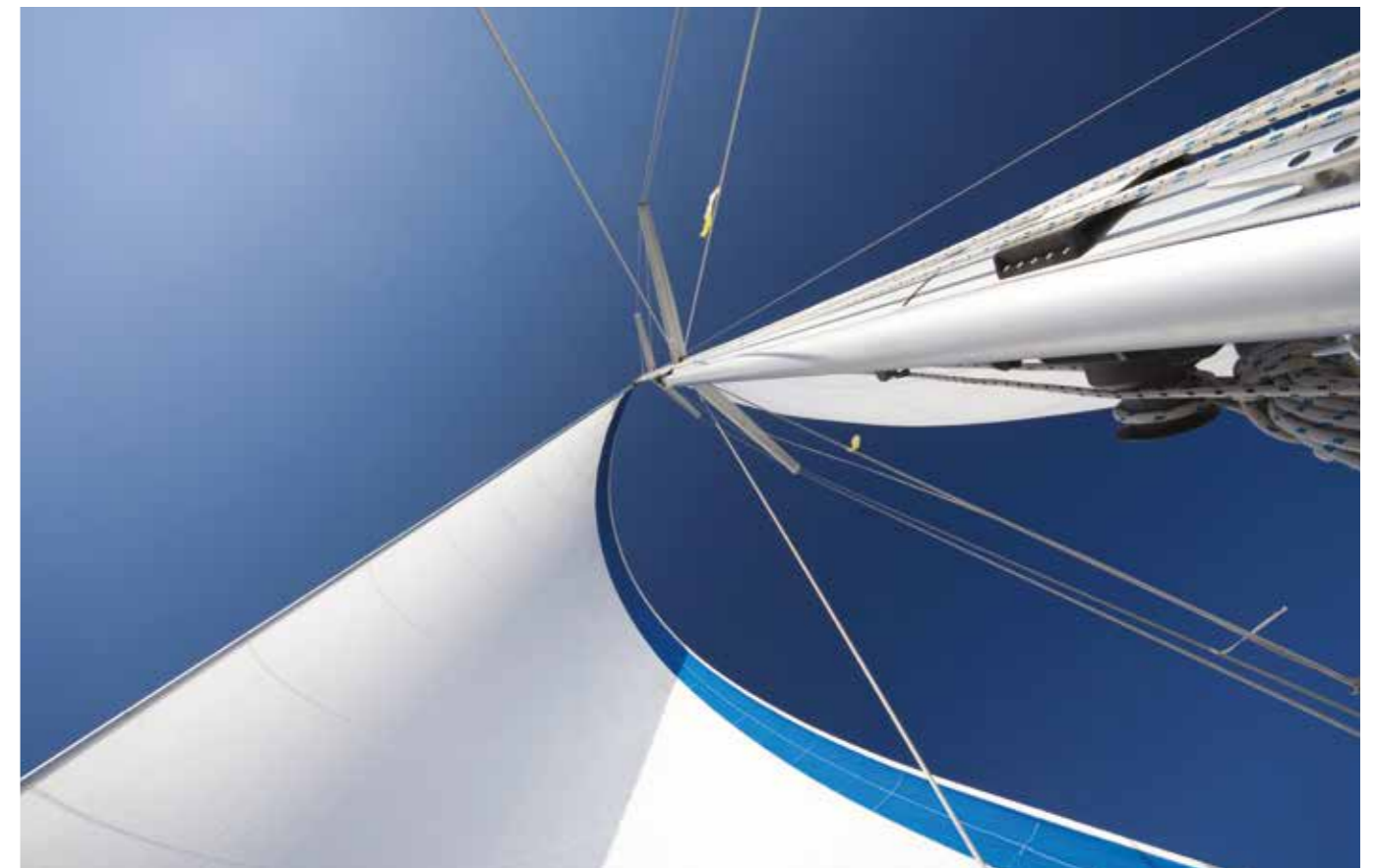
Construction:
12STR Technora® core
24/32STR Polyester cover

Features:
Extremely high durability
Low stretch
Minimized/ Almost Zero Creep
Extended service life
High Abrasion resistance
Ease of handling
Temperature resistant

Applications:
Main Halyard, Genoa Halyard,
Spi-guy, Main sheet,
Main outhaul, Cunningham

Diam	Weight	MBL
mm	Kg/100m	(kgf)
6	3,0	2.350
8	4,7	3.700
10	7,3	6.600
12	11,0	8.900
14	14,5	11.350
16	18,2	14.200
18	23	17.850
20	28,9	21.000
22	35,2	25.950
24	39,7	35.050

Technora
The power of Aramid

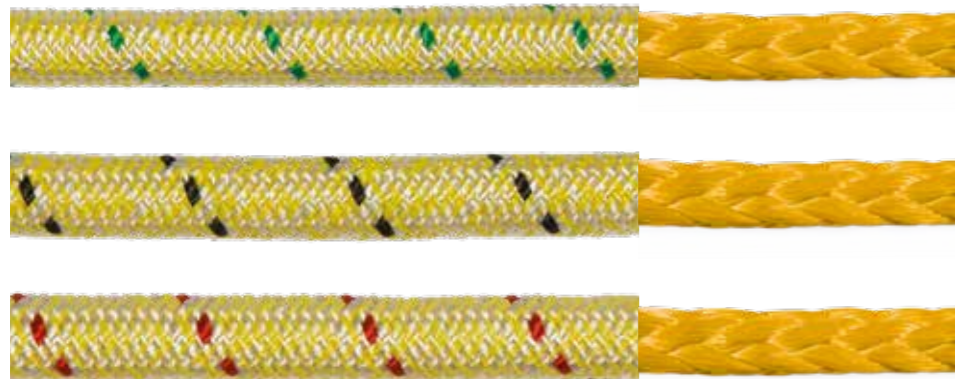


The high quality Vectran® & Technora® fibers offer almost zero creep and advanced performance. Available in plastic reels of 100m & 200m

HYBRID

In Hybrid Ropes, the High Modulus core is over-braided with a hybrid cover consisting of Polyester and UHMWPE fibers. Optional Heat-Setting of the load-bearing cores in Dyna-Siri and Prisma® Dynamic SK78 for extra strength and performance.

Hybrid Siri®



Diam	Weight	MBL
mm	Kg/100m	(kgf)
4	0,95	950
6	2,65	2.350
8	4,00	3.900
10	6,8	7.500
12	9,7	10.500
14	13,1	13.100
16	17,2	17.100
18	21,3	22.500
20	24,8	26.250
22	30,2	29.450
24	36,5	41.900
26	44	50.200
28	50,6	59.600

Heat-set core

Material:
Ultra High Molecular Weight Polyethylene fiber

Applications:
Main Halyard, Genoa Halyard, Spinnaker Halyard, Reefing line, Main sheet, Genoa sheet, Spi-sheet, Spi-guy, Boomvang, Cunningham, Spin pole

Construction:
12STR UHMWPE core
24/32STR Hybrid cover

Features:
Ultra High Abrasion Resistance
Ultra High breaking strength
Low stretch, Long service life

Hybrid PRISMA® SK78



Diam	Weight	MBL
mm	Kg/100m	(kgf)
4	0,95	1.000
6	2,65	2.400
8	4,00	4.000
10	6,8	7.750
12	9,7	10.650
14	13,1	13.200
16	17,2	17.150
18	21,3	22.700
20	24,8	26.400
22	30,2	30.000
24	36,5	42.200
26	44	50.300
28	50,6	60.100

Heat-set core

Prisma

Material:
Prisma® SK78 fiber

Applications:
Main Halyard, Genoa Halyard, Spinnaker Halyard, Reefing line, Main sheet, Genoa sheet, Spi-sheet, Spi-guy, Boomvang, Cunningham, Spin pole

Construction:
12STR Prisma® SK78 core
24/32STR Hybrid cover

Features:
Ultra High Abrasion resistant
Ultra High breaking strength
Low stretch
Long service life
Reduced creep

HYBRID

In Hybrid Ropes, the High Modulus core is over-braided with a hybrid cover consisting of Polyester and UHMWPE fibers. The Hybrid cover offers improved abrasion resistance and long service life while maintaining an efficient gripping performance.

Hybrid Vectran®



Diam	Weight	MBL
mm	Kg/100m	(kgf)
6	2,9	2.400
8	4,6	3.800
10	7,2	6.700
12	10,8	9.000
14	14,3	11.500
16	18,0	14.500
18	22,5	18.100
20	28,1	21.200
22	34,4	26.000
24	38,1	35.100

Vectran

Material:
Vectran® Fiber (LCP)

Applications:
Main Halyard, Genoa Halyard, Spi-guy, Main sheet, Main outhaul, Cunningham

Construction:
12STR Vectran® core
24/32STR Hybrid cover

Features:
Ultra High Abrasion Resistance
Extremely high durability
Low stretch
Minimized/ Almost Zero Creep
Extended service life
Ease of handling
Temperature resistant

Hybrid Technora®



Diam	Weight	MBL
mm	Kg/100m	(kgf)
6	2,9	2.400
8	4,6	3.800
10	7,2	6.700
12	10,8	9.000
14	14,3	11.500
16	18,0	14.500
18	22,5	18.100
20	28,1	21.200
22	34,4	26.000
24	38,1	35.100

Technora
The power of fiber

Material:
Technora® Fiber (p-Aramid)

Applications:
Main Halyard, Genoa Halyard, Spi-guy, Main sheet, Main outhaul, Cunningham

Technora® Fiber (p-Aramid) Construction:
12STR Technora® core
24/32STR Hybrid cover

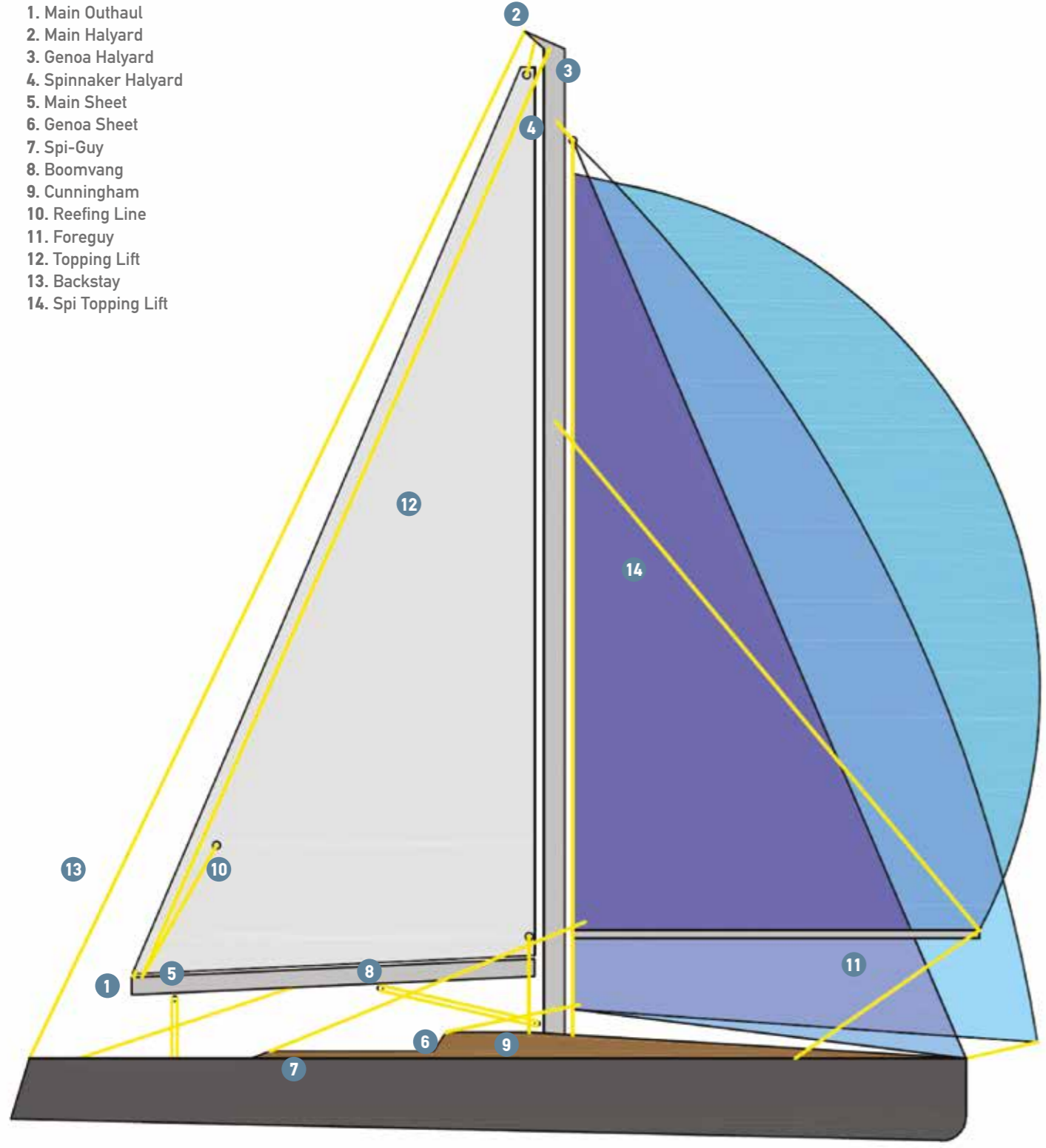
Features:
Ultra High Abrasion Resistance
Extremely high durability
Low stretch
Minimized/ Almost Zero Creep
Extended service life
Ease of handling
Temperature resistant

The high quality Vectran® & Technora® fibers offer almost zero creep and advanced performance. Available in plastic reels of 100m & 200m.

Yachting Rope Selection

Schematic Guide

- 1. Main Outhaul
- 2. Main Halyard
- 3. Genoa Halyard
- 4. Spinnaker Halyard
- 5. Main Sheet
- 6. Genoa Sheet
- 7. Spi-Guy
- 8. Boomvang
- 9. Cunningham
- 10. Reefing Line
- 11. Foreguy
- 12. Topping Lift
- 13. Backstay
- 14. Spi Topping Lift



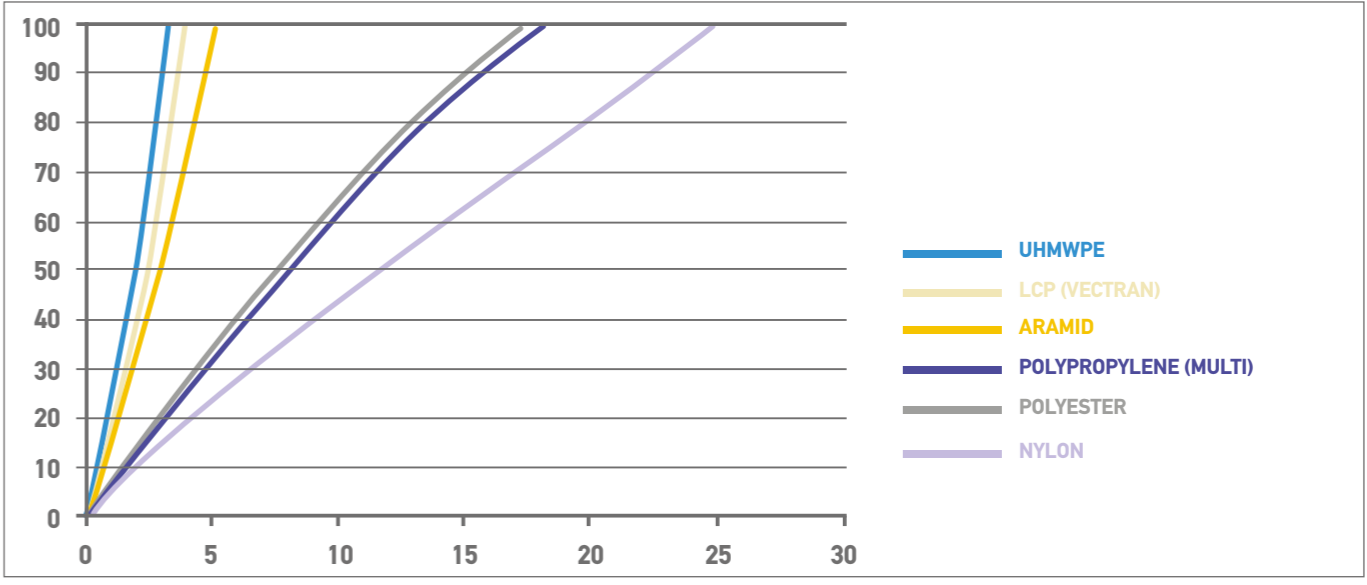
Material Selection Guide

With the many specialized material properties and manufacturing procedures that have been developed for efficient performance, it is important to select ropes that are best suited for each application. Below there is a short material comparison table:

Material	Specific Gravity	Melting Point (°C)	Performance Properties	Breaking Strength	Abrasion Resistance	UV Resistance	Scale 1. Mediocre 2. Fair 3. Good 4. Very Good 5. Excellent
POLYPROPYLENE	0,94	171		3	3	4	
POLYESTER	1,38	265		3,5	4	5	
NYLON	1,14	218		3,5	4	5	
UHMWPE	0,97	145		5	5	5	
LCP	1,40	330		4,5	5	2	
ARAMID	1,44	482		4,5	3	3	

Basic fiber properties

% Breaking Strength



% Elongation

Tensile strength characteristics in relation to elongation properties

Selecting the right material for rope requires evaluating a combination of factors and mechanical properties such as tensile strength, elongation and flexibility properties, fatigue resistance, abrasion and UV sunlight resistance. For example, when a rope is intended for the Main Halyard the most appropriate choice is a fiber material with low

elongation and high strength (High Modulus fibers). Also, rope construction is an important factor that should be considered when assessing the suitability of a rope for a particular service. The ability of a rope to resist external abrasion damage may be improved by the addition of an abrasion resistant jacket.

Rope Protection

Rope Termination Accessories

Protecting your mooring line is of primary importance in order to prolong the service life and avoid unwanted wear. Protection of a mooring line includes the spliced eyes and the rope body at the points that come in contact with metal or other surfaces.

ROPE PROTECTION

OPTIONS FOR THE EYES' PROTECTION



Leather Protector



Nika-Eye Protector



Special Nika-Guard



Polyester Tubular Webbing

OPTIONS FOR THE ROPE BODY'S PROTECTION



Nika-Protector



Special Nika-Guard

Rope Termination: The rope's terminations are made according to the customer's special demands. However, the most common terminations are the following

ROPE TERMINATION



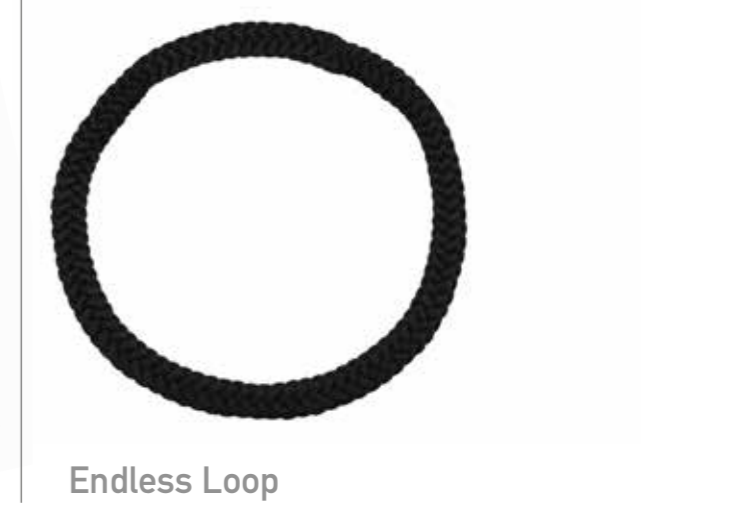
Soft Eye



Thimble Eye



Heat Sealed End



Endless Loop

FLAT FENDER LINE



Diam	Weight	MBL
mm	Kg/m	(kgf)
10	5,5	2.000
12	8,4	3.000
14	10,5	3.800

Material:
High Tenacity Polyester
Construction:
Flat Braid 24/32STR
Features:
Excellent strength
Very good abrasion resistance
Excellent resistance to UV sunlight. Chemicals

Available colors:
Black, blue



Quality Control

Quality Control is an essential part of our rope production that ensures our ropes' performance. All fibre materials in our factory are tested thoroughly by authorized personnel using high-tech equipment, in conditions according to EN, DIN, ISO, and ASTM standards.

Breaking Strength testing

Tensile strength is probably the most important property of a working rope, in order to ensure the safety of a vessel's operations. The Tensile strength test is performed throughout the rope making process:
Yarn --- Rope Yarn --- Rope Strand --- Final Rope

Properties such as Breaking Force, Tenacity, Elongation and Young's Modulus are measured according to ASTM D885. The tensile strength graph of the material also derives from our computerized tensile testing machine.

Abrasion testing

The internal abrasion of the yarns and strands inside the rope construction is very important for the long service life and the residual strength of the rope.

The yarn-on-yarn abrasion test (Wet and Dry) is performed according to ASTM D 6611.

With this test method we measure the abrasion resistance properties (Cycles to Failure) for the yarns in dry and wet conditions.

UV resistance testing

All polymer materials are vulnerable to outdoor conditions (intense sunlight and weathering). The UV Resistance test uses a UV chamber to simulate the yarn's degradation due to long exposure to sunlight. A 1500W Xenon lamp creates UV radiation, which is one of the main reasons for the yarn's wear and strength reduction.





KATRADIS GROUP OF COMPANIES

Global Network

The Katradis Group of companies is an established company that has been in the marine industry since 1936. We manufacture a wide range of synthetic mooring ropes and steel wire ropes. We also produce zinc and aluminum sacrificial anodes for the cathodic protection of ships' hull and tank. In addition we provide an array of steel wire ropes up to 80mm and all types of constructions. Katradis is a major stockist of anchors and anchor chains.

Our line of products also includes port development and deck equipment. In recent years our production line has expanded to include yachting ropes as well as fishing and aquaculture nets. Using the support of an extensive global network of affiliated establishments, agents, suppliers and representatives we guarantee immediate service at all major ports.

Worldwide relationships

Africa: Egypt (Alexandria, Port Said, Suez) / **South Africa:** (Durban, Cape Town) / **Asia:** Singapore (Singapore) | Korea (Busan) | China (Hong Kong, Shanghai, Qingdao, Zhenjiang & other ports) / **Europe:** Belgium (Antwerp, Zeebrugge) | Germany (Hamburg) | Netherlands (Rotterdam, Amsterdam) | Spain (Algeciras, Cadiz, Las Palmas) | Turkey (Istanbul) | Bulgaria (Varna) | Greece (all ports) | Cyprus (all ports) / **Middle East:** U.A.E. (Fujairah, Dubai, Sharjah, Jebel Ali) / **North America:** Canada (Montreal) | USA (Houston, New Orleans, New York, Los Angeles) / **Central America:** Panama (Panama) / **Australia:** (Brisbane, Sydney, Melbourne, Adelaide, Fremantle and Darwin)





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Worldwide pioneers in quality perfection!



KATRADIS GROUP OF COMPANIES

**UHMWPE, Aramid, LCP & Mixed Ropes for Yachting Applications, LNG/LPG Carriers and Tankers - Steel Wire Ropes
Sacrificial Anodes Anchors & Anchor Chains - Port Development Equipment - Vessel Deck Equipment**

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