



f yachtropes

kingfisher\_ropes

@kingfisherropes

Kingfisher Ropes

Kingfisher Yacht Ropes was established as a brand in 2002 when DSM Group added yacht ropes to its extensive range of ropes and rope related products. Kingfisher has become one of the most recognizable brands of yacht ropes in the sailing industry. We distribute our range of products throughout the world to many chandlers, riggers, boat builders and sailmakers.

We have invested a great deal of time in testing and developing new products and spend many hours of research and development to continually improve and develop our range.

Please visit our website www.yachtropes.co.uk for the latest news on products and upcoming events.

#### **PRODUCT KEY**



ROPES MADE WITH DYNEEMA® FIBRE



ROPE DIAMETER



PART OF OUR ECO-CYCLE RANGE



CUT LENGTHS AVAILABLE



NEW PRODUCT



STRETCH PERCENTAGE AT 20% OF BREAKLOAD



COLOUR OPTIONS AVAILABLE ON REQUEST

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**SUPERYACHT ROPES** 

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# cruising

Where performance is important but not as critical as on a racing boat, durability, handling & cost-effectiveness are essential.

## **BRAID ON BRAID POLYESTER**

Braid on Braid Polyester is an ideal cruising rope consisting of a low stretch braided Polyester core, with an abrasion resistant, braided Polyester cover. Our Braid on Braid Polyester rope is heat set under load to reduce stretch and is the ideal choice for sheets, halyards, control lines and many general purpose applications. It is easy on the hands and simple to splice.

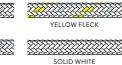
#### WHITES

Our classic colour range of Braid on Braid Polyesters are available in solid white and white with coloured flecks.















Our range of solid colour Polyester Braid on Braids now include green, silver and hemp colour.









#### **MELANGES**

Melange Braid on Braids are a mottled mix of Polyester yarns to provide a modern colour twist for our standard Braid on Braid cruising ropes.













#### DYNEEMA® CRUISE

Dyneema® Cruise ropes are made with a HT Polyester braided cover, and a braided Dyneema® core, all lines have intermediate covers to reduce core / cover slippage. This rope has been designed as an upgrade to our 100% Polyester ropes and is lighter with higher strength and lower stretch.



#### MATT POLYESTER

Matt Polyester is a soft Polyester braid on braid with a high grip staple Polyester cover. It is ideal for sheets, control lines and classic rigging.

SOLID RED (4-14mm)

SOLID BLUE (4-14mm)

CLASSIC









#### **KINGBRAID**

Kingbraid has a 3 strand twisted Polyester core and 32 plait Polyester cover. It is lower stretch, stronger and harder wearing than standard Polyester braid on braid. It is ideal for halyards, sheets, control lines and most on board applications.





















#### **TECHNICAL SPECIFICATION**

#### All our ropes are tested to the limit

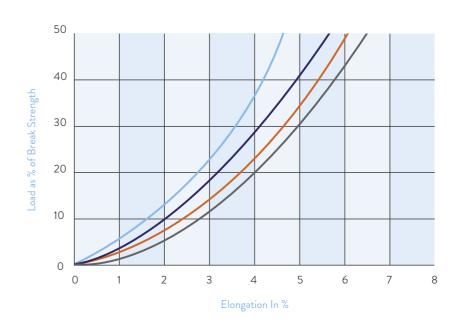
On the water, in many of the world's greatest yacht races, and off the water, at the factory, our ropes are tested to destruction. We always publish minimum spliced breaking loads, ensuring our results are not only relevant to the user, but achievable.

	Minimum Spliced Break Loads (kg)						
Diameter (mm)	Braid on Braid Polyester	Dyneema® Cruise	Kingbraid	Matt Polyester			
4	-	-	-	250			
5	-	-	-	380			
6	820	1100	930	590			
8	1300	2100	1800	1000			
10	2400	3400	2700	1800			
12	3200	5200	4100	2500			
14	4500	6700	5100	3000			
16	5900	-	-	3700			
18	7600	-	-	-			
20	8900	-	-	-			
24	10,500	-	-	-			

#### LOAD-ELONGATION **CURVE**

Elongation is based on figures taken from tests across the diameter range, to produce an average figure.



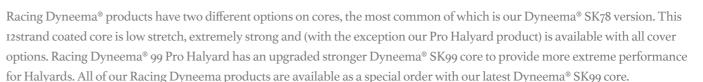


# Rigging

Kingfisher's Rigging range is made using the latest technologies and fibres. These high performance ropes for racing yachts are low in stretch and high in strength.

OUR RIGGING RANGE
IS AVAILABLE FROM
OUR PREMIUM RIGGING
PARTNERS AROUND THE
WORLD.

## **RACING DYNEEMA®**



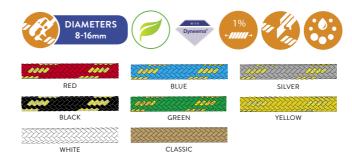
#### RACING DYNEEMA® 78 MELANGE

Racing Dyneema® 78 melange covers are still made using HT Polyester fibres, but with fewer plaits than the standard Racing Dyneema® 78 product making it easier to splice.



### **RACING DYNEEMA® 78**

All the ropes in our classic Racing Dyneema® 78 range have a hard-wearing braided HT Polyester cover which provides excellent abrasion resistance. This product is ideal for sheets and halyards on racing yachts.



#### RACING DYNEEMA® 99 PRO HALYARD

Racing Dyneema® 99 Pro Halyard has a 12strand Dyneema® SK99 coated core providing extreme strength with very low stretch. The unique cover has been designed to provide the best possible holding ability in clutches and jammers. The cover contains a combination of Kevlar, Polyester and Cordura which provides excellent grip with an extremely high level of abrasion resistance. It is ideal for high load halyards.



#### **RACING DYNEEMA® 78 PRO SHEET**

Racing Dyneema® 78 Pro Sheet has a Dyneema® SK78 12 strand coated core, and a braided Technora® / Polyester melange style cover. This technical cover has been designed to be used for high load sheets on racing yachts and has excellent heat and abrasion resistance.





#### RIG12

Rig12 is a 12 strand Dyneema® SK78 single braid with PU coating for improved protection against abrasion and the elements. This low stretch line is very easy to splice and is ideal for halyards, control lines, lashings and strops. Dyneema® Max DM20 and Dyneema® SK99 versions are also available on request.



















#### RIG12+

Rig12+ is a heat set and pre-stretched 12 strand Dyneema® SK78 single braid with PU coating for improved protection against abrasion and the elements. This very low stretch line is pre-stretched and heat set to produce a stronger, lower stretch product. Rig12+ is easy to splice and is ideal for halyards, control lines, lashings and strops. Dyneema® Max DM20 and Dyneema® SK99 versions are also available on request.







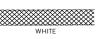


## DYNEEMA® COVERS XS, S, M, L, XL

The covers have been developed to provide an extremely high resistance to abrasion on chafe points and are ideal protection for soft eye splices on our Racing Dyneema® 78 range of products. A soft eye splice with a Dyneema® cover protection is the most efficient splice for both time and overall performance. Kingfisher recommend this type of protected splice on all our Racing Dyneema® 78 lines.











Tylaska Marine & Aerospace has been manufacturing premium performance sailing hardware for over 25 years. Tylaska's iconic trigger release shackles are well known amongst professional competitive sailors around the world as the best sailing shackle money can buy.

Kingfisher Yacht Ropes stock a large range of Tylaska fittings, please see some examples below.

**TSERIES SHACKLES** 



**HAIYARD SHACKLES** 



**JLOCK SHACKLES** 



#### **TECHNICAL SPECIFICATION**

#### All our ropes are tested to the limit.

On the water; in many of the world's greatest yacht races; and off the water, at the factory, where ropes are tested to destruction. We always publish minimum spliced breaking loads as the only loads that are achievable by, and relevant to, the user.

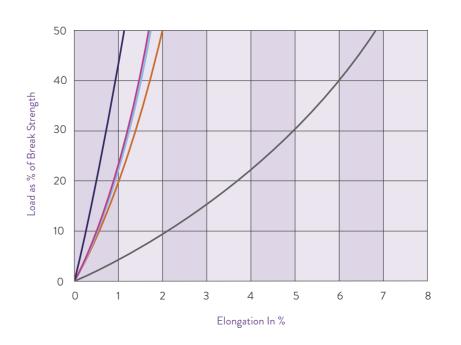
	Minimum Spliced Break Loads (kg)						
Diameter (mm)	Racing Dyneema® 78	Racing Dyneema® 99	Rig 12	Rig 12+	Braid on Braid Polyester*		
3	-	-	900	1200	-		
4	-	-	1400	1900	-		
5	-	-	2400	3000	-		
6	-	-	3200	3800	820		
8	3570	4150	5600	7500	1300		
10	5250	6050	8250	10,000	2400		
12	7640	8800	12,000	17,600	3200		
14	10,150	-	16,750	20,200	4500		
16	13,250	-	19,150	25,550	5900		

#### LOAD-ELONGATION CURVE

Elongation is based on figures taken from tests across the diameter range, to produce an average figure.



<sup>\*</sup>Braid on Braid Polyester has been placed in these charts for comparison purposes only, please refer to our Cruising brochure for further details.



# moring & ANCHORING

Durability, with the correct degree of elongation and strength, are the optimum requirements for mooring and anchoring.



#### 3 STRAND POLYESTER

3 strand Polyester is soft, strong and is an ideal mooring rope which is also, very easy to splice. All our Polyester ropes are now heat set to give better balance and lower stretch.











#### 8 STRAND NYLON

Our white 8 strand Nylon ropes are a single braid manufactured from Nylon. These ropes are strong, flexible, and easy to splice making them excellent for mooring and anchoring.











**DOCKLINE** 

**DIAMETERS** 12-24mm



or without, leather or PTC protection.



BLACK

Dockline is an ideal mooring rope. It has a braided Nylon core, providing

BLACK

Our Dockline Professional products have a Polyester braided core and a Polyester cover. This rope has been specially designed for today's

modern luxury Super Yachts and is available to order in many custom colours. We also supply this product with pre-spliced eyes with,

**DOCKLINE PROFESSIONAL** 

strength and stretch, and a hardwearing braided Polyester cover.







#### **ENVIROLINE DOCKLINE**

Our latest addition to the Eco Cycle product range is Enviro-line Dockline; a braid on braid mooring rope produced from recycled plastic bottles. We have tested many rPET fibres in the last few years and we are delighted to have this new line now available. rPET fibres have greater elongation (stretch) than standard Polyester fibres making a mooring rope the ideal product to develop.





















#### 8 STRAND POLYESTER

Our navy blue and black 8 strand ropes are made from Polyester. These ropes are great for mooring lines and are very easy to splice. White 8 strand Polyester is also available on request.

















#### 3 STRAND MULTI-FILAMENT POLYPROP

3 strand multi-filament Polyprop is a light floating rope that is strong and easy to splice.















\*Tri colours available in 8mm and 14mm only.

#### 3 STRAND NYLON

3 strand twisted Nylon is very strong, and easy to splice. The construction and material make 3 strand Nylon an excellent mooring and anchoring rope.







3 strand hempex rope is ideal for traditional boats, decking and garden ropes.









#### 3 STRAND STAPLE POLYPROP

3 strand staple Polyprop is a hard wearing, twisted rope that floats and is ideal for many general purpose applications.









#### TECHNICAL SPECIFICATION

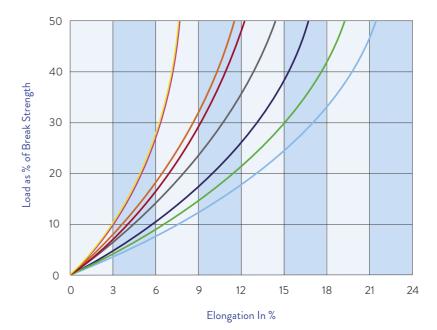


	Minimum Spliced Break Loads (kg)								
Diameter (mm)	3 Strand Polyester	8 Strand Nylon	8 Strand Polyester	Dockline	Dockline Pro	3 Strand MF PP	3 Strand Nylon	3 Strand Hempex	3 Strand Staple PP
4	300	-	-	-	-	-	-	200	-
6	650	-	-	-	-	-	900	360	600
8	1150	-	-	-	-	1160	1480	600	1060
10	1850	2080	1700	-	-	1750	2300	900	1560
12	3000	3800	2700	3500	3600	2470	4000	1340	2210
14	3400	4800	3700	5500	4500	3290	5000	1740	3050
16	5000	5900	4700	6700	6000	4210	6000	2180	3770
18	6400	6800	6300	8000	8600	-	7500	2730	4810
20	8400	8400	8000	10,000	9500	-	9200	3420	5800
24	11,500	12,400	11,000	12,000	13,000	-	12,600	4830	8100
32	20,000	-	-	-	22,000	-	21,000	8300	-
36	25,200	-	-	-	29,000	-	26,500	10,400	-
48	-	-	-	-	-	-	-	16,000	-

# LOAD-ELONGATION CURVE

Elongation is based on figures taken from tests across the diameter range, to produce an average figure.







The Evolution Dinghy range of ropes has been designed in conjunction with some of the leading dinghy manufacturers, to provide extreme performance.

> CHOICE OF SPECIALIST DINGHY ROPES TO SUIT EVERY APPLICATION AND POCKET.

#### **EVOLUTION RACE 78 - MELANGES**

Evolution race 78 has a high performance Dyneema® SK78 12 strand coated core that is high strength, low stretch and low creep. It has a hard wearing braided Polyester cover and is easy to splice.



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Evolution race 78 has a high performance Dyneema® SK78 12 strand coated core that is high strength, low stretch and low creep. It has a hard wearing braided Polyester cover and is easy to splice.



#### **EVOLUTION RACE 78 - PROTECH**

Our latest product, Evolution Race78 Protech, has the same low stretch Dyneema® SK78 core as our standard product but the cover is upgraded with a combination of Technora and Polyester fibres, providing the ultimate in performance. This new cover is extremely strong and has excellent abrasion resistance.



# YELLOW BLACK

#### COMPACT BRAID 78

A low stretch, 12 strand coated Dyneema® SK78 rope that is strong and easy to splice. It is ideal for control lines, halyards and trapeze lines.



#### **EVOLUTION BREEZE**

Evolution Breeze has a multi-filament Polyprop core and a melange style Polyester and Technora® cover. Unlike most braids, the strength comes from the cover so the rope is ideal for endless splices. The melange style of cover is not only for appearance but also balances the load on the cover and gives the rope good abrasion resistance.



#### **FVOLUTION PERFORMANCE**

Evolution Performance has a low stretch Polyester core with hard wearing 16 plait Polyester cover. It is ideal for control lines, sheets & halyards on dinghies and small sailboats.





Strong, low stretch and hard wearing, 8 plait pre-stretched Polyester ropes are ideal for control lines



#### 3 STRAND PRE-STRETCHED POLYESTER

Strong, low stretch and hard wearing, 3 strand pre-stretched twisted Polyester rope is easy to splice and a good general purpose rope.

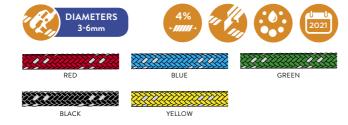






#### **FVOLUTION DINGHYLINE**

Evolution Dinghy line has been developed in conjunction with some of the worlds leading Dinghy manufactures. The 32plait Polyester cover provides good abrasion resistance and excellent performance in cleats. It is ideal for halyards and control lines.



#### **FVOLUTION SPLICE**

Evolution Splice is a 12 strand PU coated, low stretch Polyester single braid that is very easy to splice and is ideal for control lines and tails.









#### **SURFLINE**

Surfline is a 100% Dyneema® SK78 braid designed for windsurfing. It is lightweight, has high strength and extremely good abrasion resistance. Surfline is ideal for outhauls.









#### **SWIFTCORD**

Swiftcord is our premium dingly sheet rope. This single braid line is produced using Dyneema® SK78 and a special non-slip fibre. Swiftcord is a lightweight, high strength and low stretch braid that is ideal for sheets, or any line frequently adjusted by hand. Also available as a double braid with a 12 strand Dyneema® SK78 core for tapered sheets.

YELLOW, BLACK



BLUF, BLACK

RED BLACK











#### **NOVA SWIFT**

Nova Swift rope has a 12 strand Dyneema® SK78 braided core with a Swiftcord style cover, making it ideal for tapered dinghy sheets. It is very strong, flexible and easy to splice. In 8mm diameter we also offer a twin cored version for split mainsheets.















#### **EVOLUTION DINGHY LITE**

Evolution Dinghy Lite features a 12 strand PU Coated Dyneema® SK78 blended core and a 16 plait cover made using Dyneema® and special non-slip fibre. This new product is very flexible, strong, easy to taper and has a high grip cover for excellent handling qualities.









#### **EVOLUTION SHEET**

Evolution Sheet has a braided Polyester cover and lightweight braided multi-filament Polypropylene core. This construction gives added abrasion resistance and is still very flexible, lightweight and strong.













#### **FVOLUTION TAPER**

Evolution Taper is a triple braid construction containing 4mm Evolution Race 78 with an additional Polyester braided cover, it is ideal for tapered spinnaker sheets. We also produce a version made to order with a Technora® cover for added abrasion resistance called Tapertech.

































#### All our ropes are tested to the limit

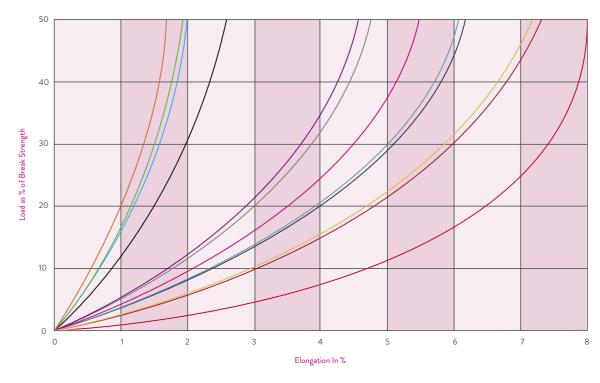
On the water; in many of the world's greatest yacht races; and off the water, at the factory, where ropes are tested to destruction. We always publish minimum spliced breaking loads as the only loads that are achievable by, and relevant to, the user.

	Minimum Spliced Break Loads (kg)							
Diameter (mm)	Evolution Race 78	Compact Braid 78	Evolution Breeze	Evolution Performance	Evolution Dinghy Line	Evolution Splice		
1.5	130	280	-	-	-	-		
2	200	435	-	90	-	-		
2.5	-	640	-	-	-	-		
3	370	900	-	175	180	250		
4	820	1500	580	365	375	440		
5	1275	2200	850	500	520	720		
6	1885	2950	-	800	840	1040		
7	-	-	-	-	-	-		
8	-	-	-	1300	-	-		

Diameter (mm)	8plt Pre Stretched	3 Std Pre Stretched	Swiftcord	Nova Swift	Evolution Dinghy Lite	Evolution Sheet
3	260	280	-	-	-	-
4	390	590	595	-	-	-
5	545	740	835	-	-	-
6	800	1020	1250	1400	1000	620
7	-	1250	1930	2100	1500	840
8	1300	1450	2300	2700	2000	1100
10	-	2100	3600	-	-	-
12	-	2900	-	-	-	-

#### LOAD-ELONGATION CURVE

Elongation is based on figures taken from tests across the diameter range, to produce an average figure.





# **SPLICING EQUIPMENT**

#### **SPLICING KITS**

Our new splicing kits come in two types the Yacht version and the Dinghy version both kits are packed in our new Kingfisher reusable splicing bag, ideal for keeping your kit together in one place onboard.

#### **YACHT KIT**

Selma fid set (4 needles) Small Swedish Fid D 16 Scissors Sailmakers Palm Pack of 5 Sailmakers Needles Roll of Splicing tape Spool Whipping twine Permanent marker pen



#### **DINGHY KIT**

D Splicer F10 & F15 needles 4mm & 5.5mm Selma fid D 16 Scissors Sailmakers Palm Pack of 5 Sailmakers Needles Roll of Splicing tape Spool Whipping twine Permanent marker pen



#### **TWISTED** WHIPPINGTWINE

Waxed Polyester twisted whipping twine.

White is available in S, M, L, XL and XXL.

Colours available in red, blue, black, green, gold, navy and tan (in size M and L only).



#### **SELMA SPLICING NEEDLES**

Full range of Selma splicing needles available in tubes of 4 or 5 needles and also available as individual fids.



Full range of D Splicer products are available including D Splicer needle sets, fixed D Splicer, Scissors, and Knives.



#### HAND HELD HEAT GUN

HSGM rope cutters, ideal for cutting and sealing synthetic ropes.



#### **SWEDISH FIDS**

Classic splicing fids available in two sizes small (175mm) and large (270mm)



#### PRE-SPLICED DOCKLINES

All Docklines have a spliced eye at one end and are whipped at the



#### 3 STRAND POLYESTER MOORING LINES

3 strand pre-spliced Polyester mooring lines with approx 30cm eye at one end. Navy, Black and White available in many different lengths and diameters.



#### **ANCHOR LINES**

Our pre-made anchor lines are available in many diameters in both 30mtr and 50mtr lengths.





#### **FENDER LINES**

3 strand Polyester, 3 strand multi-filament Polyprop and Polyester braid on braid pre-spliced fender lines are available in many diameters and lengths.







Waxed Polyester braided whipping twine. Colours available white, red. blue, black and classic. Available in 1mm and 1.4mm diameter.



# **SPLICED ROPES**



other. As standard they are packed and labelled in a clear bag, but for a surcharge we can offer them supplied in blister packs or with header cards. All sizes are available in navy blue and black with other colours available on request. Docklines are stocked in 10mtr and 14mtr lengths (other combinations can be produced to order).



## **GENERAL PURPOSE**

#### SHOCKCORD

Our shockcords have a braided cover and a natural rubber core. The ropes are made to have 100% extension, have good abrasion resistance and are used for many applications.









NEON YELLOW (3-6mm)

#### SHOCKGUARD

Shockguard is a premium shockcord with a braided cover made from 100% Dyneema® SK78 fibres which provides the ultimate abrasion resistance. The Dyneema® cover produces less friction than a conventional shockcord which provides a more even stretch when used in purchase systems on racing dinghies.





BLUF (3-6mm)







#### 3 STRAND PRE-SHRUNK POLYESTER

3 strand pre-shrunk Polyester is used by many sail makers as a bolt rope. The rope is pre-shrunk using a special process so that it remains the same length when wet.





#### 8 PLAIT STANDARD POLYESTER

8 plait standard Polyester is an ideal mouse line and general







#### FLOATLINE

Floatline is single 8 plait braided multi-filament Polypropylene rope with no core. This rope is made in bright colours for high visibility, floats and is an ideal safety rope.







# **WEBBING STRAPS**

Many combinations of webbing straps and lifting slings can be made at our purpose built UK factory.

All the webbing straps below are made with high quality Polyester webbings.

#### 25MM CAM STRAPS









25MM MINI LOAD STRAPS WITH CLAWS

Available in stainless steel and standard galvanised versions.



25MM ENDLESS MINI LOAD



50MM WINCH





# **EXTRAS**



### MINI SPOOLS

Mini spools are available in many different colours in packs of 10.



#### SAILMAKERS **EQUIPMENT**

William Smith & Sons sailmakers equipment.



#### **TOESTRAP** WEBBING

50mm Polyester webbing with a break of 3200kg. Available in blue, black and red.



#### **JACKSTAY** WEBBING

25mm Polyester webbing with a break of 3000kg. Available in blue, yellow, black, white and red.



#### BARRIER ROPE AND FITTINGS

We offer a full range of decorative fittings for 24mm rope in brass and chrome. Also available is a 24mm 3 strand barrier rope which is made from a special soft-textured spun Polyprop in black, burgundy, red and blue.



### SHOCKCORD HOOKS

SHOCKCORD BALLS



#### **MOUSE LINES**

Mouse lines are 100mtrs 3mm braid available in red. blue, yellow, black and white



#### **GUARDRAIL** NETTING

1mtr wide white 50mm mesh netting.



30mm white Polyester webbing.



#### **OUICK CLIP SAILTIES**



#### **ROPETHIMBLES**

Thimbles for splicing hard eyes in rope. Many sizes available to order in stainless. galvanised and nylon.



## TARRED MARLIN TWINE

Available in 250grm spools in 1mm, 2.5mm and 3mm diameter.



#### HOOKAND LOOP SAILTIES

**SPIRAL WIRE** 

Black plastic coated

HOOKS

spiral hooks

**STAINLESS** LUGGAGE **ELASTICS** 



### **BALL** SAILTIES



LUGGAGE **ELASTICS 8MM** DIAMETER



#### **PROPBAGS**

Premium high visibility prop bags made in 5 different sizes.



## **POCKET NETS**

Small and large pocket nets available.





## **LOOP** PRODUCTS

#### **SHACKLES**

LOOP® shackles are made from Compact Braid and are an ideal lightweight, strong rope shackle that will not cause the damage to your boat that a normal metal shackle might. Loop shackles are very easy to open by hand and are now available in both single and double string constructions.

#### **DOUBLE STRING CONSTRUCTION**



#### SINGLE STRING CONSTRUCTION



#### HIGH LOAD SHACKLES

Made from ultra wire product, these shackles are more than 70% stronger than the standard Loop® shackles at the same weight.



# LOOP COVER SHACKLES

Our new LOOP Cover shackles are made from our Dyneema® chafe covers these shackles are more flexible than the standard rope shackles and are available in 4 diameters



#### **DOG BONES**

LOOP® Dog Bones are one of the quickest and easiest ways to connect lines to other lines and/or to hardware. The advantage of a dog bone over a knot or a lashing is that they never bind and are quick and easy to release.



#### **RINGS**

The LOOP® rings are strong, maintenance free and made of hard anodized aluminium. They are used to deflect sheets or control lines and for lashings.



#### **BLOCKS**

LOOP® blocks are compact and lightweight multipurpose snatch blocks fastened with a loop shackle. The short LOOP® minimizes damage to the deck, hull or superstructure. The blocks are available with plain bearings or ball bearings.



#### CONNECTORS

LOOP® connectors are lightweight shackles with a hard anodized alloy thimble. They can be spliced into outhauls, sheets and halyards to replace standard shackles.



#### TITANIUM THIMBLES

The new Titanium Thimbles are stronger than our standard Aluminium versions and are ideal for use when higher loadings are required.



#### **THIMBLES**

LOOP® thimbles are simple thimbles that can be spliced into control lines. They are used to deflect sheets or control lines and for lashings. The thimbles are made from high strength alloy.







THE FULL LOOP® PRODUCT RANGE IS AVAILABLE THROUGH KINGFISHER YACHT ROPES. PLEASE CONTACT US FOR THE FULL BROCHURE.



# CREATED BY DSM TO BE MORE SOCIALLY RESPONSIBLE FOR OUR WORLD

We have created "Eco-Cycle," which is our internal project name for all improvements and ideas relating to the environment. We have formed an internal focus group to regularly discuss possible improvements and we welcome any ideas from both employees and customers.

The goal of the focus group is to help DSM become carbon neutral and protect the environment we live in, on both a local and international level.



# SUPERYACHT ROPES

KINGFISHER OFFER A COMPLETE RANGE OF ROPES DEVELOPED FOR SOME OF THE WORLD'S MOST EXCLUSIVE SUPERYACHTS.

We can supply ropes from all materials such as Polyester or Dyneema® for bespoke mooring lines with protected spliced eyes; specialised lines for sheets and halyards and lines for every other use on these unique vessels.





