



# DYNICE

## YACHTING ROPES 2016

**HAMPIÐJAN**  
– a worldwide network







Hampidjan's Dynlce and Dynlce Dux ropes have frequently been used on some of the highest profile yachts in the world.

From the Americas Cup, TP 52 MedCup and Volvo Ocean race yachts to the new breed of super yachts.

Hampidjan ropes have given outstanding performance and have become the number one choice among rigging professionals throughout the yachting industry.

In the spring of 1934, in the middle of the Great Depression, thirteen individuals gathered a small fortune to start up an industrial venture in Reykjavík, to manufacture fishing nets, ropes and fishing long lines for the local fishing fleet. The founders named their new company HAMPIDJAN.



*The Hampidjan Group headquarters are located at the waterfront of the main harbor of Reykjavik Iceland in a new 6.500 m2 building.*

Since then Hampidjan has become the world leader in making and servicing quality fishing gear for trawlers and purse seiners. We operate several fishing gear entities around the world with a central manufacturing facility producing ropes, netting and trawls in Lithuania.

In the last two decades we have extended our market lead to the offshore and oil industry by developing new ground-breaking products and innovative solutions with multiple variations of our DYNICE high performance ropes, also in high demand for various commercial, leisure, yachting, mooring, military and rescue activities.



*The main production facility is Hampidjan Baltic in Lithuania. The production range is from filaments to the most advanced tailor made fishing gear available as well as high performance ropes. The production equipment is state of the art and on floor area of 21.500 m2*



Hampidjan is ISO 9001 certified for quality assurance, ISO 14001 certified for environmental issues and OHSAS 18001 certified for health and safety of the employees. Certification is from DNV – Det Norske Veritas.

[photo: [www.clairematches.com](http://www.clairematches.com)]



## Dynlce 75



Diameter	mm	3	4	5	6	7	8	9
Weight	kg/100m	0.58	1.10	1.61	2.30	3.06	3.8	5.1
Linear strength *	ton	1.0	2.0	2.9	4.2	5.5	6.7	8.9
Spliced strength	ton	0.9	1.8	2.6	3.8	4.9	6.0	8.0

*Reliable and proven 12 strand braided rope of 100% Dyneema SK75 fibres impregnated with Durapur for protection and improved abrasion resistance.*

## Dynlce 78



Diameter	mm	3	4	5	6	7	8	9
Weight	kg/100m	0.58	1.10	1.61	2.30	3.06	3.8	5.1
Linear strength *	ton	1.0	2.0	2.9	4.2	5.5	6.7	8.9
Spliced strength	ton	0.9	1.8	2.6	3.8	4.9	6.0	8.0

*Low creep 12 strand braided rope of 100% Dyneema SK78 fibres impregnated with Durapur for protection and improved abrasion resistance.*

## Dynlce 90



Diameter	mm	3	4	5	6	7	8	9
Weight	kg/100m	0.58	1.10	1.61	2.30	3.06	3.8	5.1
Linear strength *	ton	1.1	2.3	3.3	4.7	6.2	7.5	10.0
Spliced strength	ton	1.0	2.0	2.9	4.3	5.6	6.8	9.0

*High strength 12 strand braided rope of 100% Dyneema SK90 fibres impregnated with Durapur for protection and improved abrasion resistance.*

## Dynlce 99 - the new innovative high strength and high modulus fibre from D



Diameter	mm	3	4	5	6	7	8	9
Weight	kg/100m	0.58	1.10	1.61	2.30	3.06	3.8	5.1
Linear strength *	ton	1.2	2.4	3.5	5.1	6.7	8.2	10.9
Spliced strength	ton	1.1	2.2	3.2	4.6	6.0	7.4	9.8

*Dynlce 99 is made from the new Dyneema® SK99 which has the highest tenacity of any lightweight polymer fiber and increased modulus performance.*



	10	11	12	14	16	18	20	22	24	26	28	32	36	40	44	48
	6.1	7.6	9.3	12.5	16.0	20.7	25.2	30.5	35.6	41.0	46.5	56.7	67.2	79.3	94.3	111.9
	10.7	13.3	16.4	21.8	27.4	35.0	41.9	50.0	57.8	65.7	73.8	88.3	102.9	119.8	140.7	165.0
	9.6	12.0	14.8	19.6	24.6	31.5	37.7	45.0	52.0	59.1	66.4	79.4	92.6	107.8	126.6	148.5

\*Direct breaking strength according ISO 2307 / EN919

Larger diameters on request.



	10	11	12	14	16	18	20	22	24	26	28	32	36	40	44	48
	6.1	7.6	9.3	12.5	16.0	20.7	25.2	30.5	35.6	41.0	46.5	56.7	67.2	79.3	94.3	111.9
	10.7	13.3	16.4	21.8	27.4	35.0	41.9	50.0	57.8	65.7	73.8	88.3	102.9	119.8	140.7	165.0
	9.6	12.0	14.8	19.6	24.6	31.5	37.7	45.0	52.0	59.1	66.4	79.4	92.6	107.8	126.6	148.5

\*Direct breaking strength according ISO 2307 / EN919

Larger diameters on request.



	10	11	12	14	16	18	20	22	24	26	28	32	36	40	44	48
	6.1	7.6	9.3	12.5	16.0	20.7	25.2	30.5	35.6	41.0	46.5	56.7	67.2	79.3	94.3	111.9
	12.0	15.0	18.4	24.5	30.8	39.3	47.1	56.2	65.0	73.9	83.0	99.3	115.7	134.7	158.2	185.6
	10.8	13.5	16.6	22.1	27.7	35.4	42.4	50.6	58.5	66.5	74.7	89.3	104.1	121.3	142.4	167.0

\*Direct breaking strength according ISO 2307 / EN919

Larger diameters on request.



Dyneema®



	10	11	12	14	16	18	20	22	24	26	28	32	36	40	44	48
	6.1	7.6	9.3	12.5	16.0	20.7	25.2	30.5	35.6	41.0	46.5	56.7	67.2	79.3	94.3	111.9
	13.1	16.2	20.0	26.6	33.5	42.8	51.2	61.1	70.6	80.3	90.2	107.9	125.7	164.7	193.4	226.8
	11.8	14.6	18.0	24.0	30.1	38.5	46.1	55.0	63.5	72.3	81.2	97.1	113.1	148.2	174.1	204.1

\*Direct breaking strength according ISO 2307 / EN919

Larger diameters on request.



SK99 is simply the current strongest fiber from the maker of the world's strongest fibers.

## Dynlce Perma - the new DM 20 Ultra Low Creep fibre from Dyneema®



Diameter	mm	3	4	5	6	7	8	9
Weight	kg/100m	0.58	1.10	1.61	2.30	3.06	3.8	5.1
Linear strength *	ton	0.9	1.9	2.7	3.9	5.1	6.2	8.3
Spliced strength	ton	0.8	1.7	2.4	3.5	4.6	5.6	7.4

*Dynlce Perma is made with the new multifilament DM 20 which is based on the revolutionary Dyneema® Max technology. This fiber withstands creep nearly completely and outperforms the creep resistant Dyneema SK78*

## Dynlce 78 Ultrabend



Diameter	mm	3	4	5	6	7	8	9
Weight	kg/100m	0.59	1.12	1.64	2.35	3.12	3.9	5.2
Linear strength *	ton	0.9	1.7	2.5	3.7	4.8	5.9	7.8
Spliced strength	ton	0.8	1.6	2.3	3.3	4.3	5.3	7.0

*The Dynlce Ultrabend 78 is based on the new bending fatigue resistant fibre Dyneema® XBO with same low creep properties as SK78. The bending fatigue tolerance is up to 5 times*

## Dynlce Dux



Diameter	mm	5	6	7	8	9	10	11
Weight	kg/100m	2.27	3.28	3.75	4.92	5.40	6.8	8.3
Linear strength *	ton	4.8	6.8	7.5	9.9	10.9	13.5	16.6
Spliced strength	ton	4.3	6.1	6.7	8.9	9.8	12.2	14.9

*The 'Dux' name is derived from Latin and means the top of the class. This heat set rope outperforms other Dyneema 75, 78 and 90 ropes as its strength is far higher.*

## Dynlce Color Selection





	10	11	12	14	16	18	20	22	24	26	28	32	36	40	44	48
	6.1	7.6	9.3	12.5	16.0	20.7	25.2	30.5	35.6	41.0	46.5	56.7	67.2	79.3	94.3	111.9
	9.9	12.3	15.2	20.2	25.4	32.5	38.9	46.4	53.6	60.9	68.5	81.9	95.5	111.2	130.6	153.1
	8.9	11.1	13.7	18.2	22.9	29.2	35.0	41.7	48.3	54.9	61.6	73.7	85.9	100.1	117.5	137.8

\*Direct breaking strength according ISO 2307 / EN919

Larger diameters on request.

as under 20% load at 20°C the permanent elongation in this new type is below 0,5% over period of 25 years.

It can therefore be used for static loads in stays.



	10	11	12	14	16	18	20	22	24	26	28	32	36	40	44	48
	6.2	7.8	9.5	12.8	16.3	21.1	25.7	31.1	36.3	41.8	47.4	57.8	68.5	80.9	96.2	114.1
	9.3	11.6	14.3	19.1	23.9	30.6	36.6	43.7	50.5	57.4	64.5	77.2	89.9	104.7	123.0	144.3
	8.4	10.5	12.9	17.1	21.5	27.5	33.0	39.3	45.5	51.7	58.0	69.4	80.9	94.3	110.7	129.8

\*Direct breaking strength according ISO 2307 / EN919

Larger diameters on request.

higher than for Dynlce 78 and therefore very suitable for running rigging which have to tolerate lot of bending under high load and high temperature.



	12	13	14	15	16	18	20	21	23	25	27	31	33	37	41	45
	9.7	11.2	13.6	14.4	18.6	22.6	27.4	32.1	37.0	42.1	46.8	56.7	67.2	80.8	95.4	114.4
	18.8	22.4	27.3	28.8	37.2	45.1	54.7	64.2	73.6	82.7	90.6	107.1	124.2	146.1	168.5	197.5
	16.9	20.2	24.6	25.9	33.5	40.6	49.2	57.8	66.2	74.4	81.5	96.4	111.7	131.5	151.7	177.8

\*Direct breaking strength according ISO 2307 / EN919

Larger diameters on request.

All constructional elongation has been removed in the production process and stretch is extremely low.



Win Win (photo: [www.clairematches.com](http://www.clairematches.com))



# YACHTING ROPES

## Zylex (PBO)



Diameter	mm	3	4	5	6	7	8	
Weight	kg/100m	0.93	1.76	2.58	3.68	4.90	6.1	
Linear strength *	ton	1.3	2.5	3.6	5.1	6.8	8.4	
Spliced strength	ton	1.2	2.2	3.2	4.6	6.1	7.5	

*Zylex is made from PBO fibre. The advantage is excellent thermal stability. Creep is virtually non-existent and the rope can take high loads for extended periods. However, the fibre is sensitive to visible light and should only be used with covers.*

## Vectex



Diameter	mm	3	4	5	6	7	8	
Weight	kg/100m	0.83	1.57	2.30	3.28	4.36	5.4	
Linear strength *	ton	1.1	2.0	2.9	4.2	5.5	6.8	
Spliced strength	ton	1.0	1.8	2.6	3.7	4.9	6.1	

*Vectex is made from Vectran filaments and impregnated with Duracoat. Vectran has high strength, excellent length stability and low stretch. Creep, even under high load for long periods is hardly measurable. As the fibre is sensitive to UV-light it should be protected by cover.*





ZYLON®

9	10	11	12	14	16	18	20	22	24	26	28	30	32	34	36
8.2	9.8	12.2	14.9	20.0	25.6	33.1	40.3	48.8	57.0	65.6	74.4	82.4	90.7	99.2	107.5
11.2	13.3	16.5	20.2	27.0	34.4	44.4	53.8	64.9	75.4	86.6	97.8	107.9	118.3	128.9	139.2
10.1	12.0	14.9	18.1	24.3	31.0	39.9	48.4	58.4	67.9	77.9	88.0	97.1	106.5	116.0	125.3

\*Direct breaking strength according ISO 2307 / EN919

Larger diameters on request.



Vectran®

9	10	11	12	14	16	18	20	22	24	26	28	30	32	34	36
7.3	8.7	10.8	13.3	17.8	22.8	29.5	35.9	43.5	50.8	58.5	66.3	73.4	80.8	88.4	95.8
9.0	10.7	13.2	16.0	21.4	27.1	34.8	42.0	50.4	58.3	66.6	74.9	82.2	89.7	97.2	104.4
8.1	9.6	11.9	14.4	19.2	24.4	31.3	37.8	45.4	52.5	60.0	67.4	74.0	80.7	87.5	94.0

\*Direct breaking strength according ISO 2307 / EN919

Larger diameters on request.



Ganesha (photo: [www.clairerematches.com](http://www.clairerematches.com))



## DynIce Cruising



*A good all around line designed for both large and small cruising yachts. This line consists of a DynIce core and high tenacity polyester cover with excellent strength and reliability characteristics.*

*The line can be produced in a wide range of diameters and colours.*

*If desired subtle flecks for line recognition can also be introduced to the cover.*

## DynIce Dux Cruising



*For large super yacht that require lines capable of performing under very high loads, DynIce Dux cruising is the natural choice. The DynIceDux core is a heat set core with exceptional break loads and almost no constructional elongation.*

*The high tenacity polyester cover makes this line ideally suited for use with captive winches. This style of line is commonly used in large yachts and has been designed for optimum strength with minimum line diameter.*





Diameter	mm	16	18	20	22	24	26	28	30	32	34	36
Weight	kg/100m	19.1	24.3	29.5	35.0	41.2	47.6	54.5	62.0	70.3	78.4	86.8
Linear strength *	ton	10.7	16.4	21.8	27.4	30.2	32.6	35.0	41.9	50.0	57.8	65.7
Spliced strength	ton	9.6	14.8	19.6	24.6	27.2	29.3	31.5	37.7	45.0	52.0	59.1

\*Direct breaking strength according ISO 2307 / EN919

Larger diameters on request.



Diameter	mm	16	18	20	22	24	26	28	30	32	34	36
Weight	kg/100m	20.3	25.0	29.9	37.6	43.7	52.9	59.6	66.5	73.0	79.6	86.4
Linear strength *	ton	16.6	22.4	28.8	37.2	45.1	64.2	73.6	82.7	90.6	98.9	107.1
Spliced strength	ton	14.9	20.2	25.9	33.5	40.6	57.8	66.2	74.4	81.5	89.0	96.4

\*Direct breaking strength according ISO 2307 / EN919

Larger diameters on request.

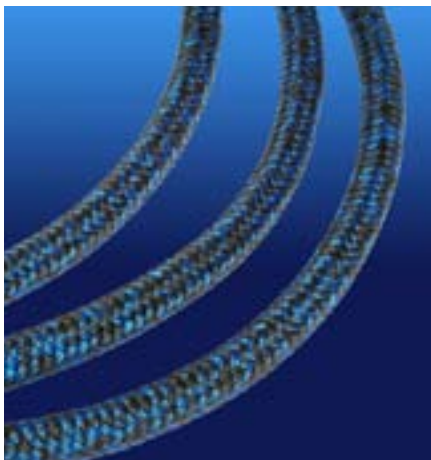


Velsheada (photo: [www.clairematches.com](http://www.clairematches.com))



# PRIX COVER SERIES

## Prix Performance



*The Prix cover series are specialized lines with composite covers to meet all needs. We offer a choice of any Dynlce, Zylex or Vectex core and the ability to select a cover suitable for the specific use.*

*This cover has been designed for yachts that function as both cruisers and occasional racers. The composite cover blend reduces cover melt in high heat situations allowing for smoother easing of lines in race conditions and a longer cover life. For medium sized yachts to super yachts these lines offer better performance than that of standard polyester covered lines.*

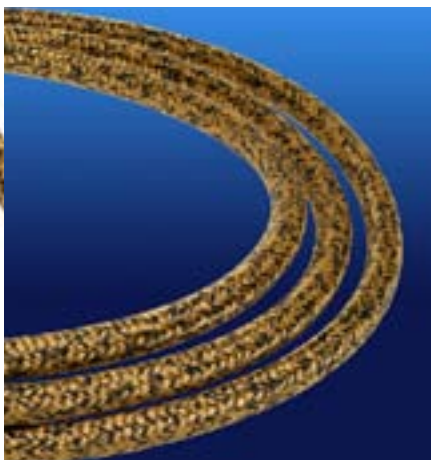
## Prix Ultimate



*The Prix Ultimate cover range is for yachts that race frequently and therefore require a line that is designed to perform consistently in race after race.*

*The Ultimate composite cover blend contains higher percentages of technical fibre allowing it to withstand the high heat and friction that is common in racing conditions where lines are continually trimmed in and out under high loads.*

## Prix Custom Pro



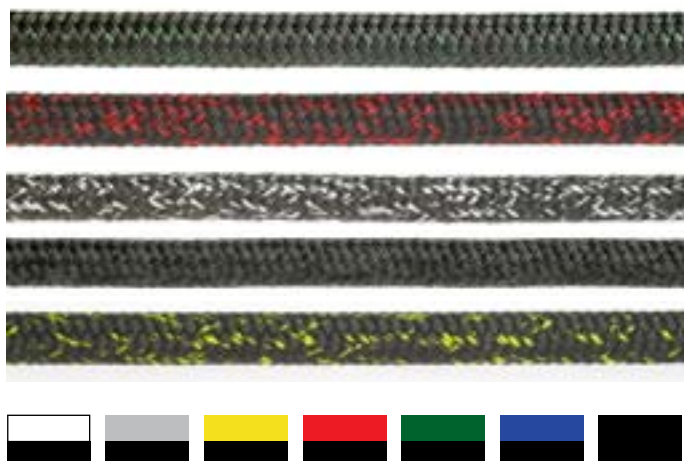
*Custom Pro cover is a completely customised solution for grand prix race yachts. With the Custom Pro option we offer the flexibility of custom designed braid angles in covers, a comprehensive fibre list for both core and cover material and machine tapering of halyards and sheets to reduce weight and friction wherever possible.*

*Custom Pro lines are designed specifically for each individual project. We offer a development programme to projects with Custom Pro lines, this includes the monitoring and testing of lines, allowing the yacht to fine tune each line to its specific task.*

**Optionally the lines are made machine tapered as shown here below**







*The composite covers are blended using high tenacity polyester as a base and your choice of the following fibres:*

Technora®  
 Vectran®  
 Zylon PBO®  
 Kevlar®  
 Nomex®  
 Dyneema®  
 Cordura®



## DynIce Furling Cable



An excellent high torsion head sail cable for smaller and medium sized yachts.

Apart from the high torque the breaking strength is high as the strength member is made of heatset and stretched DynIce based on Dyneema®SK75.

This cable has been designed to be used with cone terminals and offers excellent performance and value.

Accurate fixed lengths with the customer preferred thimbles are made on request and will ensure highest possible breaking strength.

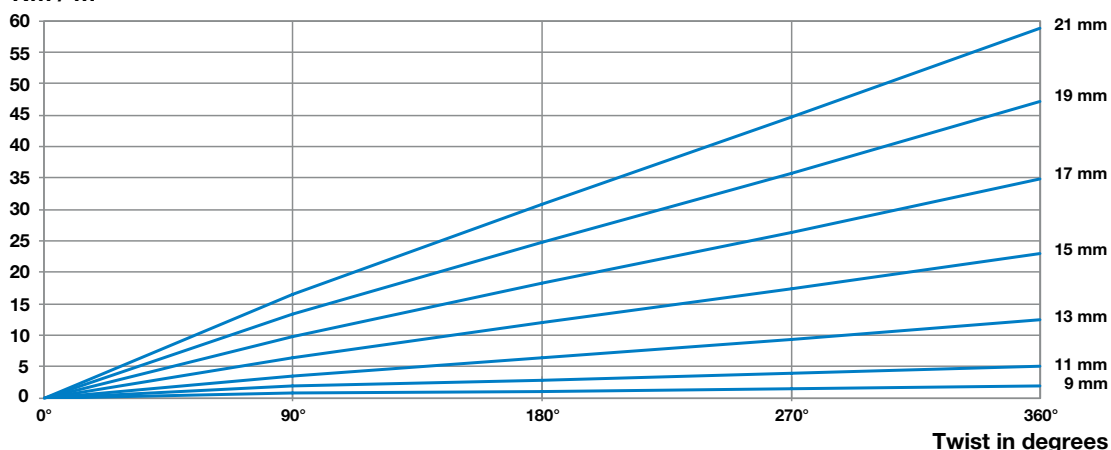
The manufacturing technique for making DynIce Furling Cable is protected by two separate patent pending methods.



Diameter	mm	7	9	11	13	15	17	19	21
Weight	kg/100m	3.5	5.8	8.7	12.2	16.2	20.9	26.1	31.9
Linear strength *	ton	1.6	3.6	6.1	9.7	12.6	17.7	24.0	29.3
Spliced strength	ton	1.5	3.3	5.5	8.7	11.4	15.9	21.6	26.4

Torque  
Nm / m

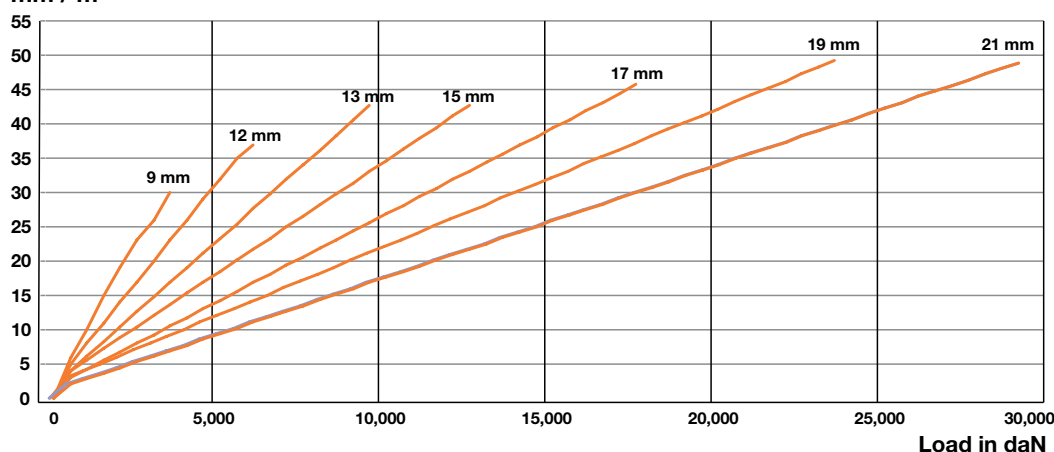
### DynIce Furling Torque



The torque is measured by twisting perpendicularly a length of 1000 mm and measuring the resistance in Nm. For example is the torque of 15 mm 23 Nm. As 1 N is equivalent to roundly 0,1 kg a 23 N is 2,3 kg. Imagine holding a stick which is 1 m long and on the end are the 2,3 kg hanging. That is the force needed to twist the DynIce Furling cable one full twist and that is quite high force.

Elongation  
mm / m

### DynIce Furling Elongation



The elongation in mm for each diameter is similar as the top end of the line represents the full elongation of 1000 until it breaks. One m of 15 mm at 5000 daN (roundly 4,9 metric tons) will elongate by some 18 mm. If the length of the furling line is 7 m the total elongation is at that load only 7 x 18 = 126 mm plus some setting in end terminations.





## Dynlce Webbing



*Ultra high strength, compact and abrasion resistant Dyneema® SK78 webbing. Excellent for Sail-makers requirements, and Mainsheet nappies etc.*

*The Dynlce webbing is available without any impregnation and is then very soft and flexible. It can also be ordered impregnated in the main colours and with the impregnation it becomes more firm and is more durable in abrasive circumstances.*



Width		mm	20	40	60	80	100	120	140	160	180	200	220
Weight	g/m	1.4	14	29	43	57	71	86	100	114	129	143	157
Breaking strength	ton		1.6	3.1	4.5	5.9	7.2	8.4	9.5	10.5	11.5	12.4	13.2
Weight	g/m	1.8	18	37	55	73	92	110	129	147	165	184	202
Breaking strength	ton		2.0	3.9	5.8	7.5	9.1	10.6	12.0	13.4	14.6	15.7	16.7
Weight	g/m	2.2	22	45	67	90	112	135	157	180	202	224	247
Breaking strength	ton		2.4	4.8	7.0	9.0	11.0	12.8	14.6	16.2	17.6	19.0	20.2
Weight	g/m	2.6	27	53	80	106	133	159	186	212	239	265	292
Breaking strength	ton		2.8	5.6	8.1	10.6	12.9	15.0	17.0	18.9	20.6	22.2	23.6
Weight	g/m	3.0	31	61	92	122	153	184	214	245	275	306	337
Breaking strength	ton		3.2	6.3	9.3	12.1	14.7	17.1	19.4	21.5	23.5	25.3	27.0

*\*Direct breaking strength according ISO 2307 / EN919*

(photo: [www.clairematches.com](http://www.clairematches.com))





## Standing rigging



### DynIce Dux

*This rope has been used for standing with very good results on over 300 boats. This is a lower cost, high strength option for standing rigging. Creep can be avoided by making sure that the working load is kept under 20% of the breaking strength.*

*The DynIce Dux is heat set rope so it is very compact. The heat setting process will eliminate the danger of initial constructional elongation.*

### DynIce Perma

*Made from the new ultra low creep fiber DM20 from Dyneema. This fiber is designed for use in applications where the rope is under constant load for long periods.*

*Testing have shown that ropes made from this fiber should only see a maximum of 0,5% elongation in 25 years under constant load.*

## Custom made for high precision lengths

*Both options can easily be spliced to length at location and used partly covered or uncovered. The Dyneema fiber has a very good tolerance to UV.*

*We also offer to have the ropes spliced and preloaded at our factory to take out any initial elongation due to*

*constructional elongation in DM20 and elongation from splices in DM20 and DynIce Dux.*

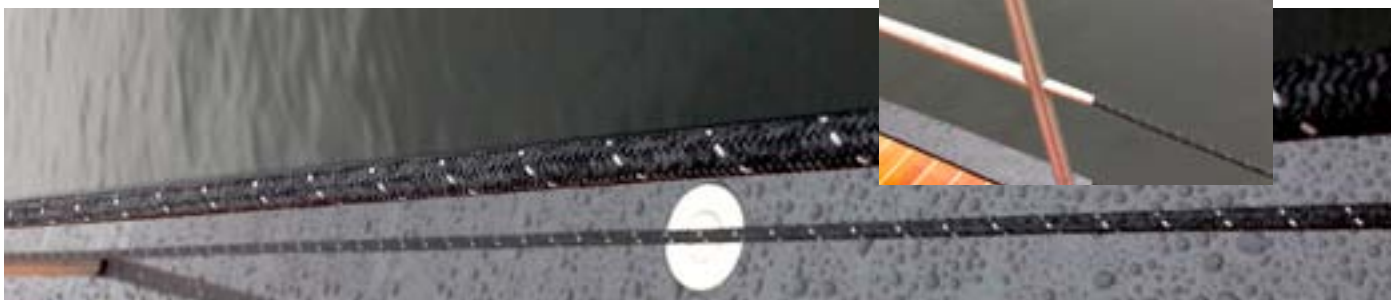
*These ropes can then be cover-braided with a very tough DynIce cover for added UV and abrasion protection.*



## Dynlce Reflective for guard rails



*A very good option for wire replacement on guard rails. Made with a Dynlce core rope for high strength and low stretch, with a tough cover with a reflective strip for high visibility. Available in a wide range of sizes.*



## Dynlce Furl



*This furling line has been designed to work with the best brands of manually operated furlers such as KZ Marine, Facnor and Equiplite. The line is constructed with a Dynlce core and a composite cover with a custom braid angle to provide optimum grip and excellent results under both manual and high speed furling conditions.*



## Dynlce whipping twine



*Made from Dyneema® and Durapur treated. It can be used for whipping and is also easy to splice for many different jobs where a very small diameter line is required with the highest possible breakload.*



Diameter	mm	1.1	1.7
Weight	g/100m	84	146
Linear strength *	kg	270	440
Spliced strength	kg	243	396





# OUR PARTNERS



**KEVLAR®**

**Vectran®**

**ROBLON**

**Technora®**

**ZYLON®**

**kuraray**



(photo: [www.clairematches.com](http://www.clairematches.com))

## CERTIFICATION





Leturprent / 11.11 2015

**HAMPIDJAN GROUP**  
[www.hampidjan.com](http://www.hampidjan.com)



(photo: [www.clairerematches.com](http://www.clairerematches.com))