



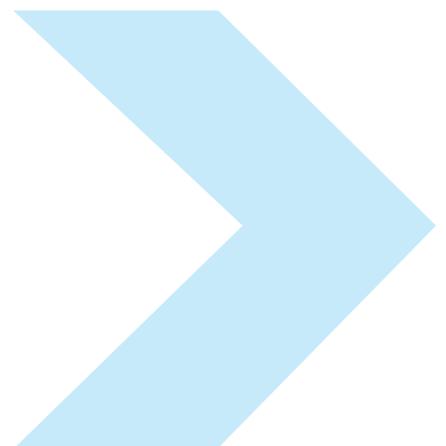
MARINE MOORING AND TOWING

BEXCO is a European manufacturer of synthetic ropes with a factory in Hamme, Belgium and a new load-out quayside facility in Antwerp.

BEXCO offers a full range of synthetic rope solutions for towing and mooring applications in the toughest of marine environments. Designed by skilled engineers and produced by craftsmen with decades of experience, our ropes are from the highest quality.

BEXCO prides itself on its personal service and advise to customers. Our sales team and engineers understand your business as no other. Joining forces with our customers, project by project, we design, engineer and manufacture made-to-measure, synthetic rope solutions that are reliable, safe and best fit the specific business requirements of the customer.

BEXCO's personal service and care extends itself until after the initial delivery of the rope. BEXCO offers 'on demand' maintenance solutions based on anticipated demand by fleet composition and location and has contractual stock in strategic harbors across the world so customers can count on the timely availability of quality ropes for their vessels.



BEXCO
OUR ROPE, YOUR SOLUTION



BEXCO HIGHLIGHTS

- European manufacturer of fiber rope solutions designed by skilled engineers
- Solution-based approach combined with approachable, personal service
- BEXCO understands your marine business. Our rope. Your solution!

PRODUCT OVERVIEW

	Strand	Material	Cover/jacket	Approx. Specific Density	Melting point in °C	Abrasion resistance	UV resistance	Temperature resistance	Chemical resistance	dry & wet conditions
Atlas®	6	nylon	–	1,14	215	excellent	excellent	80°C max continuous	reasonable ⁽¹⁾	can be stowed wet
Caesar Plus	6	nylon	–	1,14	215	excellent	excellent	80°C max continuous	reasonable	can be stowed wet
Bexcofloat	8 /12	PP/PES	–	0,99	165-260	very good	good	70°C max continuous	good ⁽²⁾	wet strength equals dry strength
Bexcoflex	8 /12	PP/PES	–	1,10	165-260	very good	good	70°C max continuous	good ⁽²⁾	wet strength equals dry strength
Dyneema®	8 /12	SK78	–	0,98	145	excellent	good	70°C max continuous	excellent	wet strength equals dry strength
Ultraline Bexcord	6+1	PP/PES	composite yarn	0,91	165	good	excellent ⁽¹⁾	70°C max continuous	good ⁽²⁾	wet strength equals dry strength
Ultraline Nylon	3	nylon	composite yarn	1,14	215	excellent	excellent ⁽¹⁾	80°C max continuous	reasonable ⁽¹⁾	wet 5% lower than dry
Ultraline Polyester	3	PES	composite yarn	1,38	260	excellent	excellent ⁽¹⁾	80°C max continuous	good ⁽²⁾	wet strength equals dry strength
Ultraline Dyneema®	3/8/12	SK78	composite yarn	0,98	145	excellent	excellent ⁽¹⁾	70°C max continuous	excellent	wet strength equals dry strength

(*) = excellent, due to cover/jacket (1) = acids, oxidisers and solvents will affect the material (2) = solvents and strong oxidisers may have a mild effect (3) = bases and solvents may have a mild effect

CERTIFICATIONS





MOORING SOLUTIONS

Bexco offers a wide range of synthetic mooring solutions made-to-measure in various materials and fit for different operational environments. Ever-increasing vessel sizes have called for mooring ropes thicker in diameter and heavier in weight making them hard to manage by vessel crews. Our synthetic ropes create lighter mooring solutions that are easy to handle and safe in use. Achieving comparable breaking strengths, our rope solutions are up to seven times lighter than steel cable.

In close cooperation with the customer we design the mooring system that best matches your requirements taking the performance of each mooring component into account.

MAINLINE

Mainlines are the strength of the mooring system. Bexco provides mainlines in various synthetic materials to fit the most challenging operational environments.

TAILS

Tails are necessary to provide elasticity in the mooring configuration and are connected to the mainline through a cow hitch.

ROPE CONNECTIONS

Ropes can be connected in various ways: via a direct eye-to-eye splice connection, a cow hitch or soft shackle.

EYE TO EYE SPLICE CONNECTION

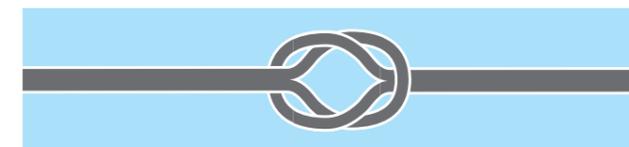
This connection cannot be removed without resplicing at least one of the ropes.

COW HITCH

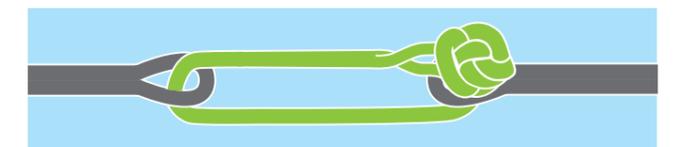
A cow hitch is the most used method to connect two ropes. It can be used if both ropes have eyes and are protected with a strong protective cloth to prevent damage to the eyes.

SOFT SHACKLE

A soft shackle is a newer alternative to the cow hitch. The advantage of this solution is that part of the mooring configuration can be replaced without having to de-install the ropes. The soft shackle floats and is light in weight, easy to open and close, self locking under load and abrasion resistant.



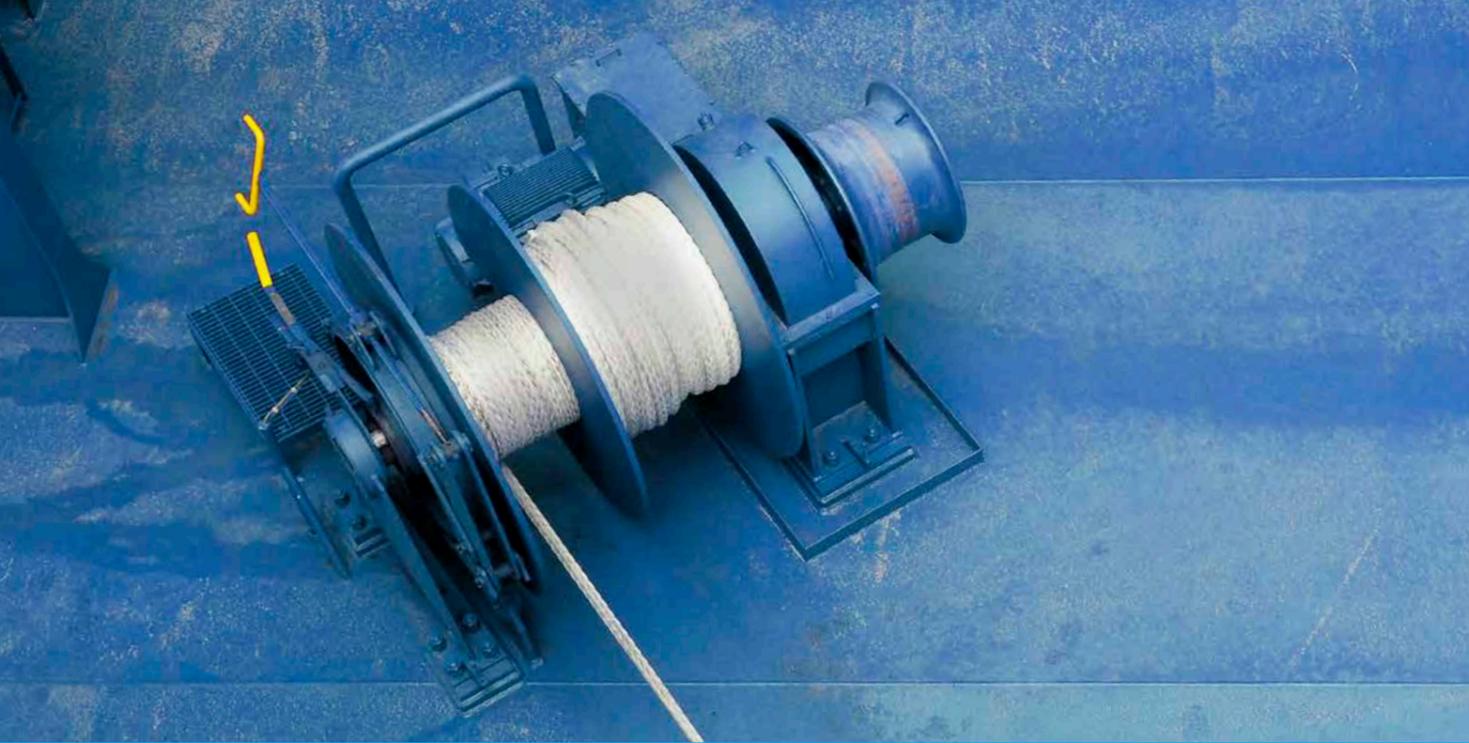
Correct cow hitch connection



Soft Shackle connection



Product	Page	Mooring								
		Passenger	Container	Bulk	Ro-Ro	LNG/LPG	Barges	Dredgers	Navy	Fishing Nets
MAINLINES										
High Performance Line with Dyneema® fiber	5	X	X	X	X	X	X	X		X
Maximus®	6	X	X			X				
Atlas®	7	X	X	X	X				X	
Caesar Plus	8	X	X	X	X				X	
Bexcoline	9	X	X	X	X	X	X		X	X
Ultraline	11	X	X		X	X				
TAILS	15									
Nylon tails	15	X	X	X	X	X				
Bexcoflex tails	16	X	X	X	X	X				
Ultrasprings	17					X				



SUPERIOR LINE

SUPERIOR WITH DYNEEMA® FIBER

Combines small diameters with high breaking strengths, the lightest rope with the highest breaking strengths.

GENERAL

- 8-strand or 12-strand braided ropes made of Dyneema® fibers
- Commonly known as HMPE : High Modulus PolyEtheylene
- Superior abrasion resistance
- Very high strength and low weight to diameter ratio
- Easy in handling and operation
- Comparable to steel wire characteristics

FEATURES

- **Material:** Ultra – High Molecular Weight Polyethylene (Dyneema® SK78)
- **Construction:** 8-strand or 12-strand braided
- **Treatment:** Marine finish
- **Color of Rope:** dia < 32mm: grey – dia > 32mm: white
- **Approx. Spec. Density:** 0,975 floating
- **Melting Point:** 145° C
- **Abrasion Resistance:** Excellent
- **U.V. Resistance:** Good
- **Temperature Resistance:** 70°C max continuous
- **Chemical Resistance:** Excellent
- **Dry & Wet Conditions:** Wet strength equals dry strength

SECTORS

Passenger ships Container ships Bulk carriers
 LNG and LPG carriers Barges Dredgers
 Tugs (harbor towing) Fishing vessels (nets)



MAXIMUS®

MAXIMUS®

The ideal mooring rope for ultra-large vessels.

GENERAL

MAXIMUS® is an in-house developed rope made with Dyneema® SK78 fibers. It is a lighter mooring rope with reduced diameters (up to 50%). Achieving a comparable breaking strength, MAXIMUS® is four times lighter in weight than the most commonly used synthetic mooring ropes and seven times lighter than steel wire.

Maximus® can be produced with different diameters, strengths and lengths in function of the vessel's hardware. BEXCO develops a custom-made Maximus® rope that meets break load requirements (MBL) as per the OCIMF guidelines while not exceeding the Safe Working Load (SWL) of the vessel equipment and taking into account the desired rope diameter in accordance with winch specifications. Also other specific customer requirements can be taken into account.

FEATURES

- **Material:** Ultra – High Molecular Weight Polyethylene (Dyneema® SK78), BEXCORD
- **Construction:** 12-strand braided
- **Treatment:** internal and external abrasion-resistant coating
- **Color of Rope:** white
- **Approx. Spec. Density:** 0,975 floating
- **Melting Point:** 145° C
- **Abrasion Resistance:** Excellent
- **U.V. resistance:** Good
- **Temperature resistance:** 70°C max continuous
- **Chemical resistance:** Excellent
- **Dry & wet conditions:** Wet strength equals dry strength

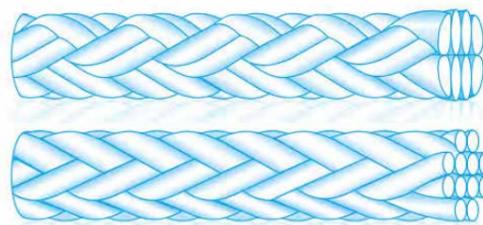
SECTORS Passenger ships, Container ships, LNG carriers

MAXIMUS®					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
No standard diameter / MBL / Weight information available.					
This product is made on request and developed to specific customer requirements.					
Ropes with alternative HMPE fibers are available on request (Maxiflex)					



	Dia		Min. Break Load		Weight	
	mm	"	tf	kN	kg/100m	kg/coil
12-STRAND	6	3/4	7.6	74.6	3.8	8.4
	8	1	10.1	99.1	5.0	11.0
	10	1 1/4	14.2	139.3	7.4	16.3
	12	1 1/2	18.5	181.5	9.6	21.1
	14	1 3/4	24.6	241	12.8	28.2
	16	2	30.7	301	16.0	35.2
8-STRAND	18	2 1/4	36.9	362	19.3	42.5
	20	2 1/2	43.1	423	22.5	49.5
	22	2 3/4	49.5	486	26.7	58.7
	24	3	60.7	595	33.1	72.8
	26	3 1/4	66.5	652	36.4	80.1
	28	3 1/2	75.4	740	41.8	92.0
	30	3 3/4	85.4	838	47.6	105
	32	4	105	1029	60.2	132
	36	4 1/2	123	1211	74.3	163
	40	5	148	1447	89.9	198
	44	5 1/2	171	1680	107	235
	48	6	199	1953	126	277
	52	6 1/2	226	2219	146	321
	56	7	259	2538	167	367
	60	7 1/2	289	2831	190	418
	64	8	320	3139	215	473
	68	8 1/2	354	3470	241	530
	72	9	388	3806	268	590
76	9 1/2	427	4188	297	653	
80	10	499	4896	360	792	
88	11	576	5650	428	942	
96	12	645	6325	502	1104	
104	13	740	7263	582	1280	
112	14	838	8220	668	1470	
120	15	941	9231	760	1672	
128	16	1050	10297	858	1888	

Ropes with alternative HMPE fibers are available on request.





ATLAS®

ATLAS®

The licensed nylon rope for use on self-tensioning winches

GENERAL

- Bexco is an official Perlon licensee holder for manufacturing the original Atlas®
- 6-strand rope made from nylon: a combination of mono- and multi-filaments
- Very good dimensional stability
- Excellent abrasion resistance and fatigue characteristics
- Best spooling on winches
- Very high breaking load
- Very compact rope: easy to handle and splice

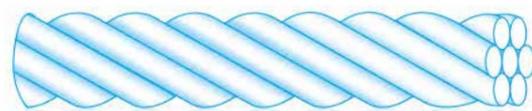
FEATURES

- **Material:** 100% high tenacity nylon (mono-and multi-filament)
- **Construction:** 6-strand cross lay
- **Treatment:** None
- **Color of Rope:** White with red marker yarn
- **Approx. Spec. Density:** 1,14 non-floating
- **Melting Point:** 215° C
- **Abrasion Resistance:** Excellent
- **U.V. Resistance:** Excellent
- **Temperature Resistance:** 80°C max continuous
- **Chemical Resistance:** Reasonable. Acids, oxidizers & solvents will affect the material
- **Dry & Wet Conditions:** Can be stowed wet

SECTORS

Container ships, Bulk carriers, Fishing vessels (nets)

ATLAS®					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
18	2 ¼	¾	8.60	84.4	22.0
20	2 ½	13/16	10.9	107	27.5
22	2 ¾	7/8	13.6	133	34.5
24	3	1	15.7	154	40.0
26	3 ¼	1 1/16	18.2	179	46.5
28	3 ½	1 1/8	20.1	197	51.5
32	4	1 5/16	25.3	248	65.0
36	4 ½	1 ½	32.0	314	83.2
40	5	1 5/8	38.4	377	100
44	5 ½	1 ¾	50.0	491	125
48	6	2	59.0	579	148
52	6 ½	2 1/8	63.7	625	160
56	7	2 ¼	78.5	770	200
60	7 ½	2 ½	85.5	839	217
62	7 ¾	2 3/5	92.8	910	235
64	8	2 5/8	97.0	952	245
68	8 ½	2 ¾	110	1079	280
70	8 ¾	2 7/8	122	1197	310
72	9	3	127	1246	335
78	9 ¾	3 1/5	136	1334	364
84	10 ½	3 3/5	158	1550	425
90	11 ¼	3 ½	186	1825	505
96	12	4	215	2109	585



CAESAR PLUS

CAESAR PLUS

The new generation Caesar - the perfect Nylon rope for use on self-tensioning winches

GENERAL

- 6-strand rope made from Nylon : a combination of mono- and multifilament
- More cost effective alternative to Atlas® rope
- Very compact and dimensionally stable
- Easy handling
- Excellent behavior on winches
- High Breaking loads and elongation

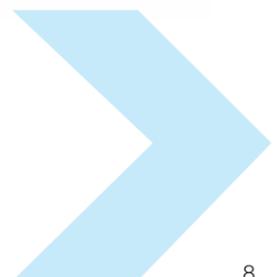
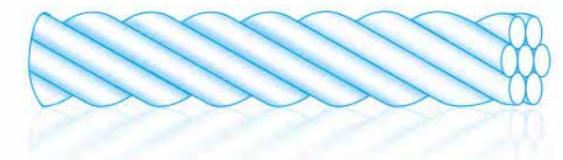
FEATURES

- **Material:** 100% high tenacity nylon (mono-and multi-filament)
- **Construction:** 6-strand cross lay
- **Treatment:** None
- **Color of Rope:** White with green marker yarn
- **Approx. Spec. Density:** 1,14 non-floating
- **Melting Point:** 215° C
- **Abrasion Resistance:** Excellent
- **U.V. Resistance:** Excellent
- **Temperature Resistance:** 80°C max continuous
- **Chemical Resistance:** Reasonable. Acids, oxidizers & solvents will affect the material
- **Dry & Wet Conditions:** Can be stowed wet

SECTORS

Container ships, Bulk carriers, Fishing vessels (nets)

CAESAR PLUS					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
56	7	2 ¼	76.2	747	200
60	7 ½	2 ½	83.3	817	217
62	7 ¾	2 3/5	90.1	884	235
64	8	2 5/8	94.2	922	245
68	8 ½	2 ¾	107.0	1050	280
70	8 ¾	2 7/8	118.4	1162	310
72	9	3	123.3	1210	335
78	9 ¾	3 1/5	132.0	1295	364
84	10 ½	3 3/5	153.4	1505	425





BEXCOLINE

BEXCOFLEX

The abrasion-resistant mooring rope

GENERAL

- 8- or 12-strand non-floating composite fiber ropes
- Mixture of high tenacity, in-house produced, BEX-yarn and polyester yarn
- Non-rotation behavior
- Excellent handling characteristics
- Good shock absorption properties
- OCIMF approved

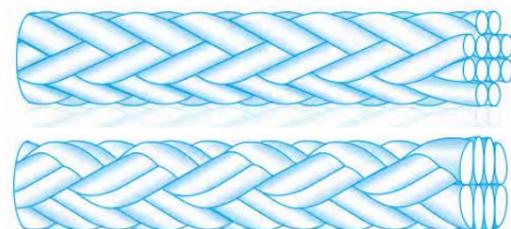
FEATURES

- **Material:** High-tenacity BEX-yarn and High-tenacity polyester
- **Construction:** 8-strand, 12-strand braided
- **Treatment:** Marine finish
- **Color of Rope:** white with a red marker yarn
- **Approx. Spec. Density:** 1,1 (non floating)
- **Melting Point:** 165° C / 260° C
- **Abrasion Resistance:** Very good
- **U.V. Resistance:** Good
- **Temperature Resistance:** 70°C max continuous
- **Chemical Resistance:** Good, solvents and strong oxidizers may have a mild effect
- **Dry & Wet Conditions:** Wet strength equals dry strength

SECTORS

Passenger ships Container ships Bulk carriers Barges
LPG carriers Navy vessels Fishing vessels

BEXCOFLEX					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
32	4	1 5/16	30.6	300	68.5
36	4 1/2	1 1/2	35.2	345	79.5
40	5	1 5/8	42.5	417	96.6
44	5 1/2	1 3/4	49.1	482	112
48	6	2	55.7	546	128
52	6 1/2	2 1/8	64.2	630	149
56	7	2 1/4	72.7	713	169
60	7 1/2	2 1/2	81.1	796	190
64	8	2 5/8	90.3	886	211
68	8 1/2	2 3/4	104	1025	246
72	9	3	113	1107	267
76	9 1/2	3 1/8	134	1315	315
80	10	3 1/4	148	1448	348
88	11	3 5/8	175	1719	415
96	12	4	205	2014	489
104	13	4 1/4	235	2308	563
112	14	4 5/8	269	2639	646
120	15	5	301	2951	725
128	16	5 1/4	339	3330	821
136	17	5 4/7	379	3722	920



Ropes conform to the INTERTANKO and OCIMF guidelines for tanker mooring

BEXCOFLOAT

An ideal floating mooring rope

GENERAL

- 8- or 12-strand floating composite fiber ropes
- Mixture of high tenacity, in-house produced, BEX-yarn and polyester yarn
- Very good fatigue characteristics and abrasion resistance
- High breaking load
- Safe handling and operation
- OCIMF approved

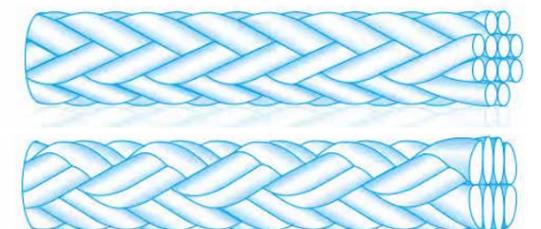
FEATURES

- **Material:** High-tenacity BEX-yarn High-tenacity polyester
- **Construction:** 8-strand and 12-strand braided
- **Treatment:** Marine finish
- **Color of Rope:** Light orange with a blue marker yarn
- **Approx. Spec. Density:** 0,99 (floating)
- **Melting Point:** 165° C / 260° C
- **Abrasion Resistance:** Very good
- **U.V. Resistance:** Good
- **Temperature Resistance:** 70°C max continuous
- **Chemical Resistance:** Good, solvents and strong oxidizers may have a mild effect
- **Dry & Wet Conditions:** Wet strength equals dry strength

SECTORS

Passenger ships Container ships Bulk carriers Barges
LPG carriers Navy vessels Fishing vessels

BEXCOFLOAT					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
32	4	1 5/16	16.5	162	43.3
36	4 1/2	1 1/2	20.8	204	52.9
40	5	1 5/8	30.2	296	72.2
44	5 1/2	1 3/4	36.5	358	91.5
48	6	2	43.0	422	106
52	6 1/2	2 1/8	50.5	495	126
56	7	2 1/4	58.0	569	145
60	7 1/2	2 1/2	66.0	647	164
64	8	2 5/8	75.0	736	188
68	8 1/2	2 3/4	84.5	829	213
72	9	3	94.5	927	237
76	9 1/2	3 1/8	103	1015	261
80	10	3 1/4	116	1137	295
88	11	3 5/8	139	1363	352
96	12	4	165	1618	417
104	13	4 1/4	193	1893	492
112	14	4 5/8	224	2202	573
120	15	5	256	2515	658
128	16	5 1/4	291	2859	747
136	17	5 4/7	328	3217	848



Ropes conform to the INTERTANKO and OCIMF guidelines for tanker mooring



ULTRALINE

ULTRALINE POLYESTER

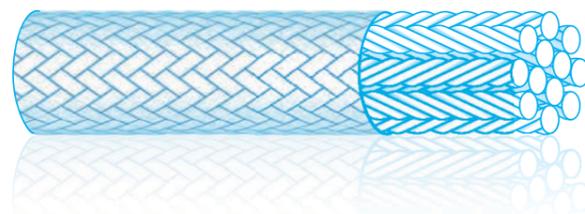
GENERAL

- Circular braided design ropes
- Parallel polyester cores with a braided protective cover of composite yarn
- Excellent abrasion resistance
- Longer life time and compact rope
- Low density and high energy absorption
- High breaking strengths

FEATURES

- **Material:** Polyester
- **Construction:** Load-bearing cores with a protective cover of composite yarn
- **Treatment:** On request
- **Color of Rope:** White
- **Approx. Spec. Density:** 1,38 non floating
- **Melting Point:** 260°C
- **Abrasion Resistance:** Excellent
- **U.V. Resistance:** Excellent, due to jacket
- **Temperature Resistance:** 80°C max continuous
- **Chemical Resistance:** Good, bases and solvents may have a mild effect
- **Dry & Wet Conditions:** Wet strength equals dry strength

ULTRALINE POLYESTER					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
32	4	1 5/16	41.0	402	80.6
36	4 1/2	1 1/2	49.1	482	95.6
40	5	1 5/8	58.0	569	117.6
44	5 1/2	1 3/4	74.6	732	146.5
48	6	2	91.2	895	175.4
52	6 1/2	2 1/8	108	1057	204.7
60	7 1/2	2 1/2	149	1466	275.5
64	8	2 5/8	170	1669	319.1
68	8 1/2	2 3/4	191	1872	354.9
70	8 3/4	2 7/8	207	2035	382.6
72	9	3	216	2117	410.4
76	9 1/2	3 1/8	237	2321	445.1
78	9 3/4	3 1/5	249	2443	466.5
80	10	3 1/4	266	2606	494.8
82	10 1/4	3 3/8	282	2769	522.8
84	10 1/2	3 4/9	291	2850	537.9
86	10 3/4	3 1/2	307	3013	565.9
88	11	3 5/8	324	3175	594.1
90	11 1/4	3 1/2	340	3338	622.1
92	11 1/2	3 3/4	357	3501	650.3
96	12	4	373	3664	701.2



ULTRALINE POLYAMIDE

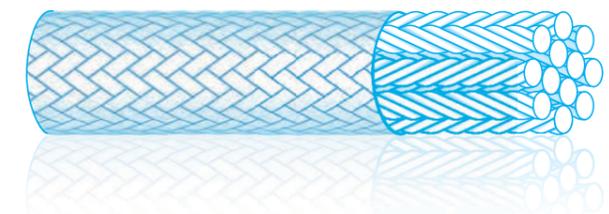
GENERAL

- Circular braided design ropes
- Parallel nylon cores with a braided protective cover of composite yarn
- Excellent abrasion resistance
- Lower fatigue properties in comparison to polyester
- Longer life time and compact rope
- Excellent spooling on winches

FEATURES

- **Material:** Polyamide (nylon)
- **Construction:** Load-bearing cores with a protective cover of composite yarn
- **Treatment:** On request
- **Color of Rope:** White
- **Approx. Spec. Density:** 1,14 non floating
- **Melting Point:** 215°C
- **Abrasion Resistance:** Excellent
- **U.V. Resistance:** Excellent, due to jacket
- **Temperature Resistance:** 80°C max continuous
- **Chemical Resistance:** Reasonable; acids, oxidizers & solvents affect the material
- **Dry & Wet Conditions:** Wet strength about 5% lower than dry strength

ULTRALINE POLYAMIDE (NYLON)					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
32	4	1 5/16	31.4	308	65.5
36	4 1/2	1 1/2	38.3	376	77.7
40	5	1 5/8	48.8	479	104.3
44	5 1/2	1 3/4	59.3	582	123.8
48	6	2	73.3	719	148.9
52	6 1/2	2 1/8	87.3	856	174.4
56	7	2 1/4	104	1027	205.1
60	7 1/2	2 1/2	119	1164	230.1
64	8	2 5/8	133	1301	263.3
68	8 1/2	2 3/4	154	1506	300.0
70	8 3/4	2 7/8	161	1575	312.8
72	9	3	171	1677	331.0
76	9 1/2	3 1/8	188	1848	374.1
78	9 3/4	3 1/5	199	1951	392.7
80	10	3 1/4	213	2088	417.2
82	10 1/4	3 3/8	223	2191	435.8
84	10 1/2	3 4/9	237	2328	460.2
86	10 3/4	3 1/2	244	2396	473.2
88	11	3 5/8	258	2533	497.6
90	11 1/4	3 1/2	272	2670	521.8
92	11 1/2	3 3/4	286	2807	546.2
96	12	4	300	2944	593.3





ULTRALINE

ULTRALINE WITH DYNEEMA® FIBER

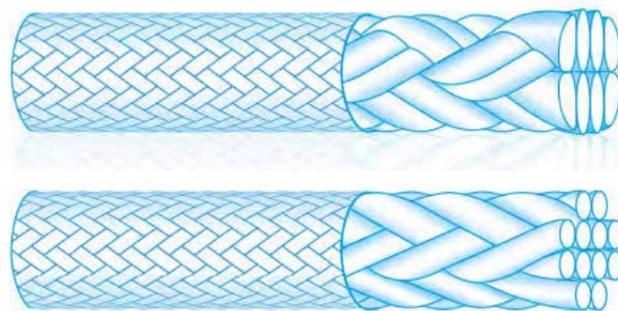
GENERAL

- Circular braided design ropes
- HMPE cores with a protective cover braid of composite yarn
- Excellent abrasion resistance
- Longer life time and compact rope
- Minimal elongation
- Firm construction and torque balanced

FEATURES

- **Materials:** Ultra HMPE (Ultra High Modulus Polyethylene – Dyneema® fiber SK78)
- **Construction:** Load-bearing cores with a cover of composite yarn
- **Treatment:** On request
- **Color of rope:** White
- **Approx. Spec. Density:** 0,975 floating
- **Melting Point:** 145°C
- **Abrasion Resistance:** Excellent
- **U.V. Resistance:** Excellent, due to jacket
- **Temperature Resistance:** 70°C max continuous
- **Chemical Resistance:** Excellent
- **Dry & Wet Conditions:** Wet strength equals dry strength

ULTRALINE WITH DYNEEMA® FIBER (8 & 12 strand)					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
36	4 1/2	1 1/2	99	972	82
40	5	1 5/8	113	1112	92
44	5 1/2	1 3/4	143	1401	114
48	6	2	163	1606	131
52	6 1/2	2 1/8	197	1940	146
56	7	2 1/4	224	2204	170
60	7 1/2	2 1/2	257	2528	206
64	8	2 5/8	283	2785	235
68	8 1/2	2 3/4	322	3165	267
72	9	3	361	3541	298
76	9 1/2	3 1/8	398	3911	309
80	10	3 1/4	437	4283	375
88	11	3 5/8	528	5177	424
96	12	4	597	5861	531



This rope is also available in a 3-strand parallel core construction. For more information, please visit our website.

ULTRALINE WINCHMATE BEXCORD

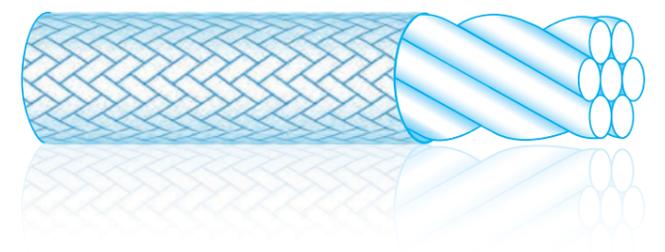
GENERAL

- Circular braided design ropes
- Crosslay 6+1 cores of high tenacity BEX-yarn with a protective cover braid of composite yarn
- Firm construction, ideal for use on winches
- Floating, low density
- Very good abrasion resistance
- High-strength alternative for polypropylene

FEATURES

- **Materials:** High tenacity BEX-yarn
- **Construction:** 6 + 1 cross-lay core with a protective cover of composite yarn
- **Treatment:** On request
- **Color of Rope:** White
- **Approx. Spec. Density:** 0,91 floating
- **Melting Point:** 165°C
- **Abrasion Resistance:** Good
- **U.V. Resistance:** Excellent, due to jacket
- **Temperature Resistance:** 70°C max continuous
- **Chemical Resistance:** Good, solvent and strong oxidizers may have a mild effect
- **Dry & Wet Conditions:** Wet strength equals dry strength

ULTRALINE WINCHMATE BEXCORD					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
32	4	1 5/16	20.5	201	52.6
36	4 1/2	1 1/2	26.5	260	66.4
40	5	1 5/8	30.7	302	81
44	5 1/2	1 3/4	38.5	378	98.1
48	6	2	47.2	463	117
52	6 1/2	2 1/8	54.3	533	132
56	7	2 1/4	64.5	633	154
60	7 1/2	2 1/2	75.7	742	177
64	8	2 5/8	82.7	812	200
68	8 1/2	2 3/4	95.3	935	226
72	9	3	107	1051	254
76	9 1/2	3 1/8	118	1154	288
80	10	3 1/4	132	1298	319
88	11	3 5/8	162	1593	386
96	12	4	185	1813	456





TAILS

BEXCOFLEX TAILS

The first choice mooring tail. Provides required elongation in mooring configurations with HMPE and steel wire.

BEXCOFLEX compared to NYLON

- Smaller size and weight compared to nylon tails
- According to OCIMF guidelines, synthetic tails should have an MBL of 25% higher than the MBL of a mooring line. Tails made of polyamide (nylon) should have a 37% higher MBL than a mooring line because of the loss of strength when wet.
- TCLL (comparable to pure polyester and significantly higher than for nylon)
- Elongation (comparable to polyester)

FEATURES

- **Materials:** High tenacity BEX-yarn and High-tenacity polyester
- **Construction:** 8-strand, 12-strand braided
- **Treatment:** Marine finish
- **Color or rope:** White with a red marker yarn
- **Approx. Spec. Density:** 1.1 (non floating)
- **Melting point:** 165 °C / 260 °C
- **Abrasion Resistance:** Very good
- **UV Resistance:** Good
- **Temperature resistance:** 70 °C max continuous
- **Chemical resistance:** good, solvents and strong oxidizers may have a mild effect
- **Dry & wet conditions:** Wet strength equals dry strength

BEXCOFLEX					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
32	4	1 5/16	30.6	300	68.5
36	4 1/2	1 1/2	35.2	345	79.5
40	5	1 5/8	42.5	417	96.6
44	5 1/2	1 3/4	49.1	482	112
48	6	2	55.7	546	128
52	6 1/2	2 1/8	64.2	630	149
56	7	2 1/4	72.7	713	169
60	7 1/2	2 1/2	81.1	796	190
64	8	2 5/8	90.3	886	211
68	8 1/2	2 3/4	104	1025	246
72	9	3	113	1107	267
76	9 1/2	3 1/8	134	1315	315
80	10	3 1/4	148	1448	348
88	11	3 5/8	175	1719	415
96	12	4	205	2014	489
104	13	4 1/4	235	2308	563
112	14	4 5/8	269	2639	646
120	15	5	301	2951	725
128	16	5 1/4	339	3330	821
136	17	5 4/7	379	3722	920

POLYAMIDE (NYLON) TAILS

OCIMF required tail for gas tankers

GENERAL

- High abrasion resistance
- Excellent weight/tenacity ratio
- Easy to splice
- Rot-proof
- OCIMF approved

FEATURES

- **Materials:** Polyamide
- **Construction:** 8 strand
- **Color or rope:** White
- **Approx. Spec. Density:** 1.14 non floating
- **Melting point:** 215 °C
- **Abrasion Resistance:** Very good
- **UV Resistance:** excellent
- **Temperature resistance:** workable in sub-zero temperatures
- **Chemical resistance:** good, except in presence of acids
- **Dry & wet conditions:** can be stowed wet

POLYAMIDE (NYLON)					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
6	3/8	1/4	0.75	7.4	2.25
8	1	5/16	1.35	13.2	4
10	1 1/4	7/16	2.08	20.4	6.2
12	1 1/2	1/2	3	29.4	8.9
14	1 3/4	9/16	4.1	40.2	12.2
16	2	5/8	5.3	52	15.8
18	2 1/4	3/4	6.7	65.7	20
20	2 1/2	13/16	8.3	81.4	24.5
22	2 3/4	7/8	10	98	30
24	3	1	12	118	35.5
26	3 1/4	1 1/16	14	137	42
28	3 1/2	1 1/8	15.8	155	48.5
30	3 3/4	1 1/4	17.7	174	55.5
32	4	1 5/16	20	196	63
36	4 1/2	1 1/2	24.9	244	80
40	5	1 5/8	30	294	99
44	5 1/2	1 3/4	35	351	120
48	6	2	42	412	142
52	6 1/2	2 1/8	48.8	479	166
56	7	2 1/4	56	549	193
60	7 1/2	2 1/2	63.8	626	221
64	8	2 5/8	72	706	252
68	8 1/2	2 3/4	80.1	792	284
72	9	3	90	882	319
76	9 1/2	3 1/8	100	979	355
80	10	3 1/4	110	1078	394
88	11	3 5/8	131	1284	477
96	12	4	154	1510	568
104	13	4 1/4	182	1786	666
112	14	4 5/8	210	2061	772
120	15	5	240	2355	887
128	16	5 1/4	272	2668	1010
136	17	5 4/7	306	3002	1140



TAILS

ULTRASPRING POLYAMIDE

High quality jacketed mooring tail.

FEATURES

- **Material:** Polyamide (nylon)
- **Construction:** One load-bearing core with a protective cover of composite yarn
- **Treatment:** On request
- **Color of Rope:** White
- **Approx. Spec. Density:** 1,14 non-floating
- **Melting Point:** 215° C
- **Abrasion Resistance:** Excellent
- **U.V. resistance:** Excellent, due to jacket
- **Temperature resistance:** 80°C max continuous
- **Chemical resistance:** Reasonable; acids, oxidizers and solvents will affect the material
- **Dry & wet conditions:** Wet strength about 5% lower than dry strength

ULTRASPRING POLYAMIDE					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
32	4	1 5/16	23.2	228	62.3
36	4 1/2	1 1/2	29.0	285	75.6
40	5	1 5/8	33.8	332	92.9
44	5 1/2	1 3/4	40.6	398	109
48	6	2	45.1	443	120
52	6 1/2	2 1/8	56.4	553	144
56	7	2 1/4	67.7	664	168
60	7 1/2	2 1/2	79.0	775	193
68	8 1/2	2 3/4	90.3	885	230
72	9	3	113	1107	275
80	10	3 1/4	135	1328	339
88	11	3 5/8	158	1549	390
96	12	4	181	1771	465
104	13	4 1/4	226	2213	560

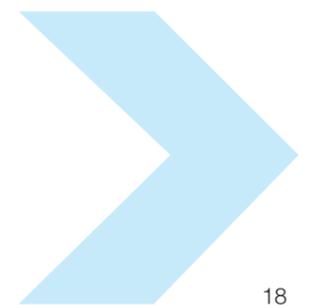
ULTRASPRING POLYESTER

Long life cycle jacketed mooring tail or towing stretcher.

FEATURES

- **Material:** Polyester
- **Construction:** One load-bearing core with a protective cover of composite yarn
- **Treatment:** On request
- **Color of Rope:** White
- **Approx. Spec. Density:** 1,38 non-floating
- **Melting Point:** 260° C
- **Abrasion Resistance:** Excellent
- **U.V. resistance:** Excellent, due to jacket
- **Temperature resistance:** 80°C max continuous
- **Chemical resistance:** Good, bases and solvents may have a mild effect
- **Dry & wet conditions:** Wet strength equals dry strength

ULTRASPRING POLYESTER					
Dia	Circ.	Dia	Min. Break Load		Weight
mm	"	"	tf	kN	kg/100m
32	4	1 5/16	27.5	270	70.8
36	4 1/2	1 1/2	34.4	337	86.2
40	5	1 5/8			
44	5 1/2	1 3/4	48.1	472	124
48	6	2	53.7	527	137
52	6 1/2	2 1/8	67.2	659	166
56	7	2 1/4	80.6	791	194
60	7 1/2	2 1/2	94.0	922	222
68	8 1/2	2 3/4	107	1054	264
72	9	3	134	1318	317
76	9 1/2	3 1/8			
80	10	3 1/4	161	1581	390
88	11	3 5/8	188	1845	449
96	12	4	215	2108	534
104	13	4 1/4	269	2635	645





TOWING

TOWING

Safety, cost effectiveness and longevity are key for any rope solutions in the marine industry but vital for harbor towing systems. BEXCO offers complete towing solutions from mainlines to stretchers and pendants custom-made to function in the roughest of environments. In close cooperating with the customer we design the towing system that best fits your requirements taking the performance of each towing component into account.

PENDANT

First part of the mooring configuration. Pendants are used in the closed chocks of the towed ship and need to be abrasion resistant and easily replaceable. Our pendants are produced in Dyneema® fiber to increase lightness of handling. The first meters of the pendant have a loose cover to increase the abrasion resistance in the chocks.

MAINLINES

The strength of the towing system. Mainlines need to be strong, yet light and easy to handle. BEXCO offers various custom-made solutions in different synthetic fibers depending on the equipment of the vessel and the operating environment of the tug.

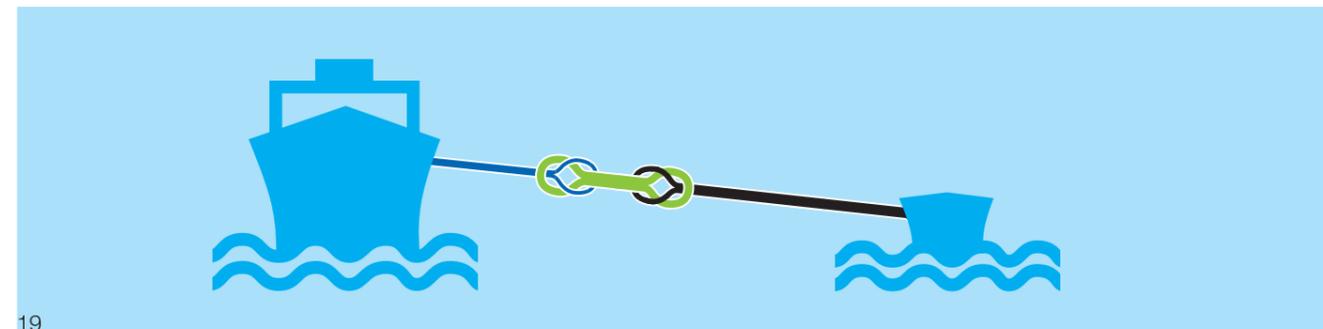
STRETCHERS

Higher elongation than the mainline. Stretchers can be added to the towing solution to provide shock absorption within the system. Stretchers can be positioned on different locations in the towing configuration. Our stretchers are custom-made.

SYNTHETIC FIBER

Bexco offers towing system components in various synthetic fibers depending on the equipment used and the type of operating environment of the tug.

Product	Page	Pendants	Mainline	Stretchers
Pendant in Dyneema® fiber	20	X		
Ultraspring Polyamide	17			X
Ultraspring Polyester	18			X
Bexcoflex	16		X	X
Ultraline Polyester	11		X	
High Performance Line with Dyneema® fiber	5		X	



PENDANTS

PENDANT WITH LOOSE COVER MADE WITH DYNEEMA® FIBER

GENERAL

- 12-strand braided ropes made of Dyneema® fibers
- Commonly known as HMPE : High Modulus PolyEtheylene
- Superior abrasion resistance
- Very high strength and low weight to diameter ratio
- Easy in handling and operation
- Comparable to steel wire characteristics

FEATURES

- **Material:** Ultra – High Molecular Weight Polyethylene (Dyneema® SK78)
- **Construction:** 12-strand braided
- **Treatment:** Marine finish
- **Color of Rope:** dia < 32mm: grey – dia > 32mm: white
- **Approx. Spec. Density:** 0,975 floating
- **Melting Point:** 145° C
- **Abrasion Resistance:** Excellent
- **U.V. Resistance:** Good
- **Temperature Resistance:** 70°C max continuous
- **Chemical Resistance:** Excellent
- **Dry & Wet Conditions:** Wet strength equals dry strength

APPLICATIONS Towing

SECTORS Tugs (Harbor towing)

Dia mm	Circ. "	Dia "	Min. Break Load		Weight kg/100m
			tf	kN	
32	4	1 5/16	105	1029	60.2
36	4 1/2	1 1/2	123	1211	74.3
40	5	1 5/8	148	1447	89.9
44	5 1/2	1 3/4	171	1680	107
48	6	2	199	1953	126
52	6 1/2	2 1/8	226	2219	146
56	7	2 1/4	259	2538	167
60	7 1/2	2 1/2	289	2831	190
64	8	2 5/8	320	3139	215
68	8 1/2	2 3/4	354	3470	241
72	9	3	388	3806	268
76	9 1/2	3 1/8	427	4188	297
80	10	3 1/4	499	4896	360
88	11	3 5/8	576	5650	428
96	12	4	645	6325	502



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ACCESSORIES

ROPE PROTECTION

POLYESTER FIRE HOSE (1)

Polyester sleeve is used as standard eye protection. It can also be used for protection of extra lengths on the synthetic rope.

Color: red

BEXCO PROTECTION SLEEVE (5)

The BEXCO PROTECTION SLEEVE is a composite of Nylon and Dyneema®. An in-house engineered product to be used as extra protection for ropes in chocks, fairleads and on sheaves to extend the lifecycle of high quality mooring ropes. The standard length is 2 meters and the width is adjusted to fit any rope diameter. Different sizes are available on request.

DELTAWEB (3)

DELTAWEB has been developed for protecting a splice against wear and tear. It's a fabric woven from the highly abrasion-resistant BEXCOLINE composite yarn i.e. high-tenacity BEXCORD & high-tenacity polyester. Because DELTAWEB is made from the same material as our usual covers, it will not change the weight or the handling of the rope significantly. DELTAWEB can also be applied on a rope in use, giving the rope additional protection if the original cover is worn.

Color: white

LOOSE COVER (2)

Perfect solution to use on Dyneema®/HMPE pendants for protection into the closed chocks (towing application)

Made of Dyneema® fibers.

Color: white (other colors on request)

SOFT SHACKLE (4)

Soft rope shackle made of Dyneema® SK78 fibers. Will tighten under tension and is easy to remove when relaxed.

Floats

Color: White/Grey

REPAIR KITS

STANDARD REPAIRKIT ULTRALINE

- 2m Deltaweb cloth
- PA6 braided nylon 3mm 200m (sewing)
- PA6 braided nylon 6mm 100m (seizing)
- 1 sewing needle
- Delivered in a plastic box

EXTENSIVE REPAIRKIT ULTRALINE

- 4m Deltaweb cloth
- 2 spools HMPE sewing yarn
- 50mm wide adhesive tape
- 19mm wide adhesive tape
- PA6 braided 7mm lashing rope 250m
- 1 sewing needle
- Delivered in a plastic box

GENERAL FEATURES FOR ALL BEXCO ROPES

- **Coil length:** 220m
- **Spliced strength:** +/- 10% lower
- **Weight and length tolerance:** +/- 5%
- **Diameter:** +/- 2%

MBL = Minimum Breaking Load conform ISO 2307
Breaking strength without splices or any other termination.

Other sizes are available on request.



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CONTACT



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BEXCO

OUR ROPE, YOUR SOLUTION