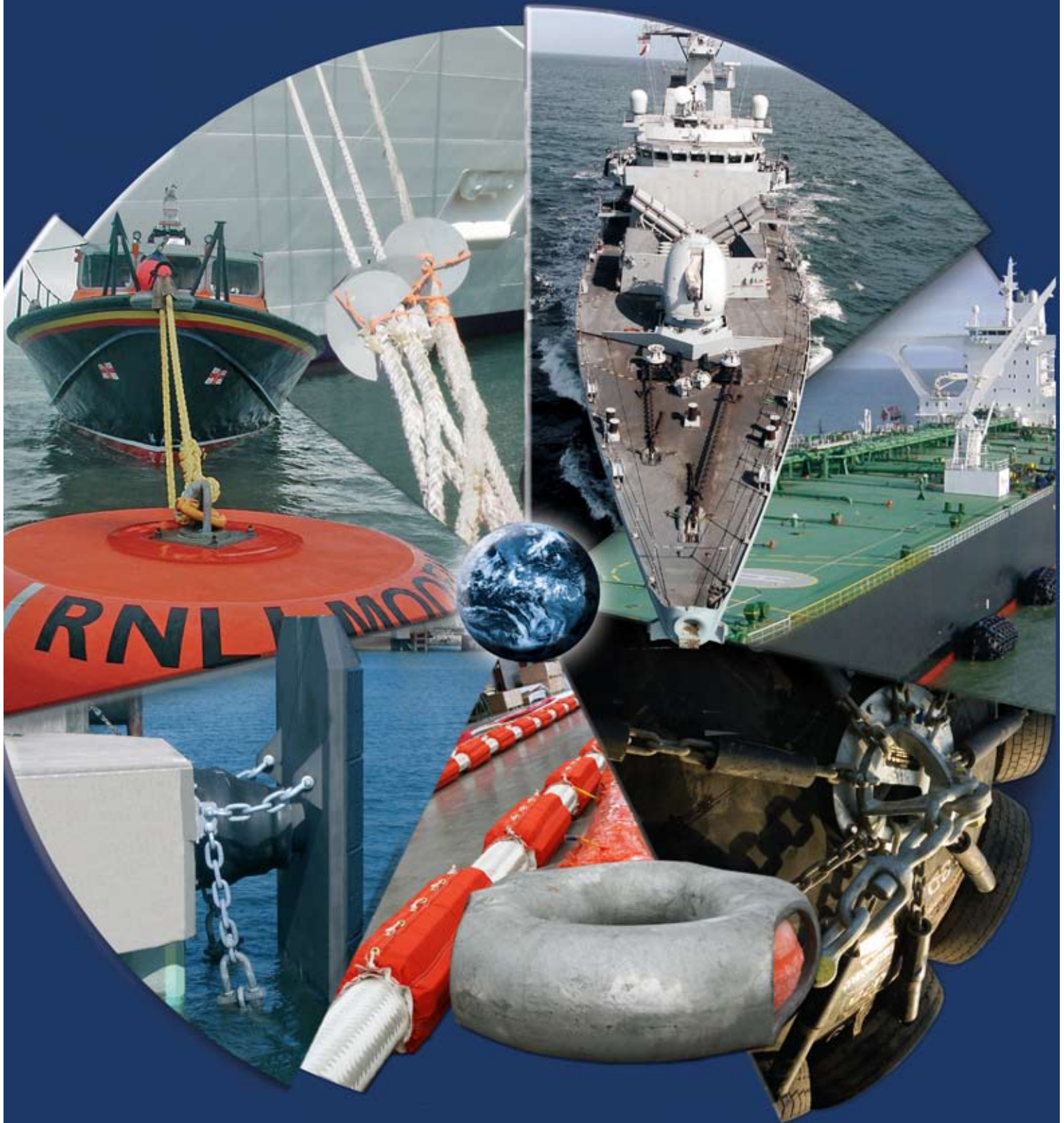


FenderCare Rope & Rigging



Everything you need from
seabed to quayside

Oceanmoor

Polypropylene Co-polymer



Description

Oceanmoor high tenacity co-polymer rope combines a higher breaking strength with dimensional stability, an economical option to staple PP and polyamides.

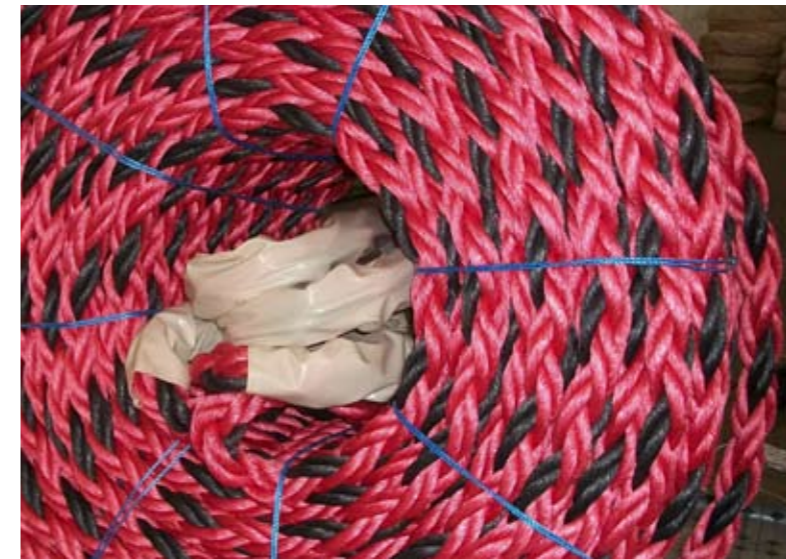
It is manufactured in 3, 4, 8 and 12 strand, to cover a wide range of applications throughout shipping, fishing and other industries.

Properties

- Abrasion resistant
- Excellent shock absorption
- UV stabilised
- Excellent shape retention - easily spliced
- No reduction in strength, when wet
- Specific gravity - 0.91 floats
- Water absorption - none
- Colour - Red with black marker strands
- Melting point 165°C
- Excellent chemical resistance to acid & alkali
- 8 & 12 strand supplied with protected eye each end
- Certification - 3 & 4 strand - certificate confirming MBL
8 & 12 strand - Germanischer Lloyd 3rd party certificate

Oceanmoor

Polypropylene Co-polymer



3 and 4 Strand

Size		Weight 220m coil kilos	Breaking load tonnes
Dia (mm)	Circ (inch)		
4	½	1.63	0.28
6	¾	3.67	0.77
8	1	6.6	1.35
10	1 ¼	10.0	2.00
12	1 ½	14.5	2.84
14	1 ¾	20.0	3.90
16	2	25.5	4.90
18	2 ¼	32.5	5.50
20	2 ½	40	7.52
22	2 ¾	49	8.45
24	3	57	10.20
26	3 ¼	68	11.87
28	3 ½	78	13.54
30	3 ¾	90	15.48
32	4	101	17.43
34	4 ¼	116	19.26
36	4 ½	129	21.10
40	5	158	24.00
44	5 ½	194	30.17
48	6	229	35.35

8 Strand

Size		Weight 220m coil kilos	Breaking load tonnes
Dia (mm)	Circ (inch)		
40	5	158	28.0
44	5 ½	194	33.75
48	6	229	39.5
52	6 ½	270	45.75
56	7	312	52.0
60	7 ½	359	59.5
64	8	407	67.55
68	8 ½	460	76.00
72	9	515	84.50
76	9 ½	574	94.00
80	10	638	104.00
84	10 ½	703	114.00
88	11	772	125.00
92	11 ½	846	136.00
96	12	916	148.00
100	12 ½	1000	159.17
104	13	1078	169.50

Sizes up to 144mm diameter specifications available upon request

Oceanmoorflex

Polypropylene / Polyester

Description

Oceanmoorflex high tenacity polypropylene rope combined with polyester yarn supplies a higher breaking strength with increased abrasion resistance and a lower elongation with dimensional stability.

It is manufactured in 8 strand, to cover a wide range of applications throughout the shipping industry.



8 Strand

Size		Weight 220m coil kilos	Breaking load tonnes
Dia (mm)	Circ (inch)		
40	5	174	31.10
44	5 ½	213	37.10
48	6	252	43.60
52	6 ½	295	50.60
56	7	343	58.10
60	7 ½	395	66.10
64	8	448	74.60
68	8 ½	505	83.70
72	9	566	93.30
76	9 ½	633	104.15
80	10	701	115.00
84	10 ½	775	126.50
88	11	850	138.00
96	12	1007	163.00
100	12 ½	1098	176.55
104	13	1080*	190.10

Sizes up to 144mm diameter specifications available upon request
* 200 metre max length

Properties

- Superior abrasion resistance
- Excellent shock absorption
- Excellent shape retention - easily spliced
- UV stabilised
- No reduction in strength, when wet
- Specific gravity - 0.99 floats
- Water absorption - none
- Polypropylene 60% / Polyester 40%
- Colour - orange with black & red tracer yarn to strands
- Melting point 185°C
- Excellent chemical resistance to acid
- Supplied with protected eye each end
- Certification - Germanischer Lloyd 3rd party certificate

Oceansupaflex

Polyester / Polypropylene

Description

Oceansupaflex high tenacity polyester/ polypropylene composite fibre supplies a higher breaking strength with superior abrasion resistance, lower elongation with dimensional stability.

It is manufactured in 8 strand, to cover a wide range of applications throughout the shipping industry.



8 Strand

Size		Weight 220m coil kilos	Breaking load tonnes
Dia (mm)	Circ (inch)		
40	5	193	34.2
44	5 ½	229	40.8
48	6	264	47.4
52	6 ½	310	55.5
56	7	345	63.2
60	7 ½	402	72.4
64	8	453	81.6
68	8 ½	510	91.8
72	9	567	102.0
76	9 ½	622	112.0
80	10	702	125.0
88	11	836	148.0
96	12	983	174.0

Note: The MBL should never be considered as the safe working load of rope.
For the method of calculating safe working load please refer factor of safety =
Breaking force/6.

Properties

- Manufactured in accordance with OCIMF guidelines
- TLL value of 73%
- Excellent abrasion and frictional heat resistance
- Excellent shock absorption with low elongation
- Specific gravity 1.1 neutrally buoyant
- Polyester 55% / Polypropylene 45%
- Water absorption - none
- No reduction in strength, when wet
- Melting point 175°C
- Colour - white with black and red tracer yarn to strands
- Excellent chemical resistance to acid
- Supplied with protected eye at each end
- Certification - Germanischer Lloyd 3rd party certificate

Oceanlon

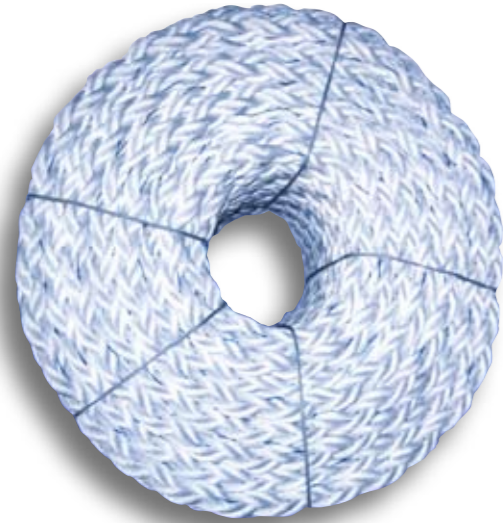
Nylon



Description

Oceanlon Nylon (Polyamide) ropes have high strength and extreme durability, yet extremely soft and easy to handle. Especially useful where peak dynamic loading and high energy absorbing ability is called for, such as towing and some mooring applications.

It is manufactured in a variety of constructions to cover a wide range of applications throughout shipping, fishing and other industries



8 Strand

Size		Weight 220m coil kilos	Breaking load tonnes
Dia (mm)	Circ (inch)		
24	3	82	12.9
28	3 ½	112	15.3
32	4	147	20.0
36	4 1/2	185	25.0
40	5	228	30.0
44	5 ½	277	36.0
48	6	330	42.0
52	6 ½	387	49.0
56	7	449	56.0
60	7 ½	512	64.0
64	8	579	72.0
68	8 ½	666	81.0
72	9	739	90.0
76	9 ½	822	100.0
80	10	913	110.0
84	10 ½	1005	120.0
88	11	1100	131.0
92	11 ½	1110*	143.2
96	12	1133*	154.0

* 92mm 200 metre & 96mm 190metre

Properties

- Excellent abrasion resistant
- Excellent shock absorption
- High strength
- Specific gravity - 1.14 sinks
- Melting point 215°C
- Supplied with protected eye each end.
- Certification - Germanischer Lloyd 3rd party certificate



Properties

- Excellent abrasion resistant
- High strength
- Specific gravity-1.38 sinks
- Melting point 256°C
- Extremely resistant to UV
- Supplied with protected eye each end
- Certification - Germanischer Lloyd 3rd party certificate

Oceantex

Polyester

Description

Oceantex polyester ropes have high strength and excellent abrasion resistance giving extreme durability.

It is manufactured in a variety of constructions to cover a wide range of applications throughout shipping, fishing and other industries.

8 Strand

Size		Weight 220m coil kilos	Breaking load tonnes
Dia (mm)	Circ (inch)		
40	5	266	27.5
44	5 ½	323	32.7
48	6	385	38.6
52	6 ½	451	45.0
56	7	524	51.5
60	7 ½	600	58.5
64	8	684	66.6
68	8 ½	772	74.4
72	9	865	83.0
76	9 ½	966	92.5
80	10	1067	102.0
84	10 ½	1179	112.0
88	11	1291	122.0
92	11 ½	1413	133.0
96	12	1398*	144.0

* 96mm 200 metre

Size		Weight 220m coil kilos	Breaking load tonnes
Dia (mm)	Circ (inch)		
6	¾	8.4	7.6
8	1	11	10.1
10	1 ¼	16.3	14.2
12	1 ½	21.1	18.5
14	1 ¾	28.2	24.6
16	2	35.2	30.7
18	2 ¼	42.5	36.9
20	2 ½	49.5	43.1
22	2 ¾	58.7	49.5
24	3	72.8	60.7
26	3 ¼	80.1	66.5
28	3 ½	92	75.4
30	3 ¾	105	85.4
32	4	132	105
36	4 ½	163	123
40	5	198	148
44	5 ½	235	171
48	6	277	199
52	6 ½	321	226
56	7	367	259
60	7 ½	418	289
64	8	473	320
68	8 ½	530	354
72	9	590	388
76	9 ½	653	427
80	10	792	499
88	11	942	576
96	12	1104	645
104	13	1280	740
112	14	1470	838
120	15	1672	941
128	15	1888	1050

Description

Oceandyn UHMPE (ultra high modulus polyethylene) Dyneema® offers breaking strengths greater than steel wire rope for similar diameters but with a significant weight reduction, only 10–14% the weight of equivalent wire rope. This makes HMPE ropes a lot more flexible and easier to handle than wire ropes with similar elastic elongation properties but a better fatigue life. Dyneema® has a very low elongation factor, 3% at breaking point, so little stored energy. It can be supplied in a range of constructions and overbraided with a variety of materials to produce a rope suitable for different applications.



Properties

- Superior abrasion resistance
- Excellent shock absorption
- Extreme strength
- Low elongation (low snap back)
- Excellent shape retention - easily spliced
- Circular braid finish for drum spooling
- Melting point 145° C
- Excellent resistance to chemicals*
- Unaffected by UV*
- No reduction in strength, when wet
- Specific gravity – 0.97 floats
- Water absorption - none

* Dyneema load bearing core is unaffected but sheathing, depending on material, could be affected.

Description

Atlas® ropes have 6 strands manufactured from Nylon. Mono and multi-filaments combined in the strands. The mono-filaments give the ropes excellent dimensional stability and abrasion resistance. The splicing technique for Atlas is very similar to wire rope. The stretch of the nylon in combination with the dimensional stability makes these lines ideal for mooring, especially on a constant-tension winch.



6 Strand

Size		Weight 220mt coil kilos	Breaking load tonnes
Dia (mm)	Circ (inch)		
18	2 ¼	48	8.6
20	2 ½	61	10.9
22	2 ¾	76	13.6
24	3	88	15.7
26	3 ¼	102	18.2
28	3 ½	113	20.1
32	4	143	25.3
36	4 ½	183	32.0
40	5	220	38.4
44	5 ½	275	50.0
48	6	325	59.0
52	6 ½	352	63.7
56	7	440	78.5
60	7 ½	477	85.5
62	7 ¾	517	92.8
64	8	539	97.0
68	8 ½	616	110
70	8 ¾	682	122
72	9	737	127
78	9 ¾	800	136
84	10 ½	935	158
90	11 ¾	1111	186
96	12	1287	215



Properties

- Material: 100% high tenacity nylon (mono and multi-filament)
- Construction: 6 strand crosslay
- Colour - white with a red marker yarn
- Excellent abrasion resistance
- Shock absorption
- UV resistant
- Excellent shape retention - easily spliced
- Specific gravity - 1.14 sinks
- Water absorption - none
- Melting point 215°C

Mooring Hawasers

Polyamide Braid



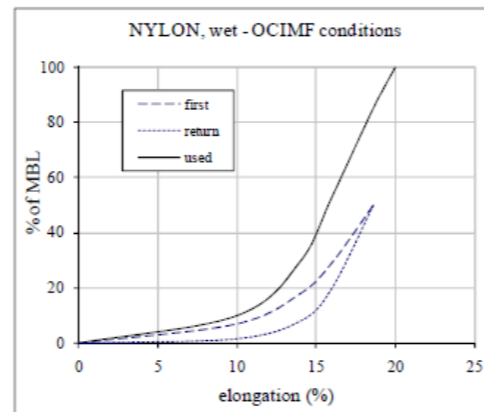
Description

The rope is a circular braid design developed to give the rope extra protection against wear and tear, without significantly changing the primary characteristics. It is a logical development from the double braid, where the outer protects the inner and both contribute to the strength. In circular braided rope design this duality has been abandoned.

The cover is optimised for wear and abrasion resistance and the core optimised for strength. This results in both a higher strength and a better life expectancy.

Properties

- Material - Polyamide (nylon)
- Construction - 12 strand braided with a braided cover of polyamide
- Treatment - marine finish
- Colour - white with green marker
- Approx spec density - 1,14 non floating
- Melting point - 215°C
- Abrasion resistance - excellent
- UV resistance - excellent due to jacket
- Temperature resistance - 80°C max continuous
- Chemical resistance - reasonable; acids, oxidisers & solvents will affect nylon
- Dry & wet conditions - wet strength \pm 5% lower than dry strength



Dia (mm)	Cir (inch)	Wt. Per KG 100m	BL Single				BL Grommet			
			tf	dry kN	wet tf	wet kN	tf	dry kN	tf	wet kN
80	10"	397	147	1442	140	1370	250	2452	237	2329
88	11"	481	178	1746	169	1659	303	2969	287	2820
96	12"	572	208	2040	198	1938	354	3469	336	3295
104	13"	671	249	2443	237	2321	423	4153	402	3945
112	14"	779	288	2825	274	2684	490	4803	465	4563
120	15"	893	327	3208	311	3047	556	5453	528	5181
128	16"	1020	368	3610	350	3430	626	6137	594	5830
136	17"	1150	419	4110	398	3905	712	6988	677	6638
144	18"	1280	470	4611	447	4380	799	7838	759	7446
152	19"	1425	521	5111	495	4855	886	8689	841	8254
160	20"	1580	578	5670	549	5387	983	9639	933	9157

Break load and length according to OCIMF Weight \pm 5% Diameter \pm 2%

Mooring Hawasers

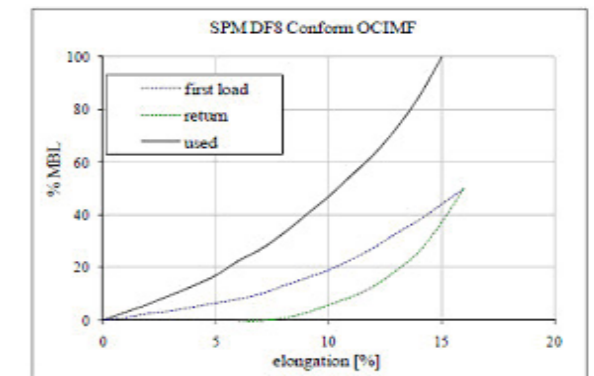
PP / PES Composite 8 Strand

Description

Composite fibre based on a propriety PP yarn and polyester as a strength member. It combines the excellent fatigue characteristics and abrasion resistance of polyester with the low density of nylon. The fatigue life is comparable to pure polyester, but the weight for a given strength is comparable to nylon, giving excellent handling characteristics. A special marine finish is applied to further increase the wear resistance in a marine environment. Wet and dry strengths are identical.

Properties

- Material - high tenacity PP yarn and high tenacity polyester
- Construction - 8 strand plaited
- Treatment - marine finish
- Colour - white with a two colour marker (orange and blue) in one strand
- Approx spec density - 1.14 non-floating
- Melting point - 165°C / 260°C
- Abrasion resistance - excellent
- UV resistance - good
- Temperature resistance - good. Solvents and strong oxidisers may have a mild affect
- Dry & wet conditions - wet strength equals dry strength
- Single point mooring hawasers are manufactured in accordance with OCIMF 2000 regulations



The construction and requirements of individual hawasers vary with location, depending on operational procedures and regional conditions. FenderCare can provide a tailored package, a comprehensive range of equipment for all mooring systems, wherever required. We can also supply complete assemblies for initial installations or separately as spare parts.

- Mooring hawasers
- Messenger lines
- Support buoys
- Pick-up ropes
- Chafe chains
- Quick release hooks
- Mooring hardware
- Shackles and associated fittings

Dia (mm)	Cir (inch)	Wt. Per KG 100m	BL Single		BL Grommet	
			tf	kN	tf	kN
80	10"	393	147	1373	238	2333
88	11"	483	170	1672	290	2843
96	12"	569	198	1945	337	3307
104	13"	692	239	2347	407	3989
112	14"	800	275	2699	468	4589
120	15"	915	313	3072	532	5222
128	16"	1037	353	3461	600	5883
136	17"	1190	402	3947	684	6710
144	18"	1336	449	4409	764	7496
152	19"	1496	500	4908	851	8344
160	20"	1649	549	5382	933	9150

Break load and length according to OCIMF Weight \pm 5% Diameter \pm 2%

TOUGH PRODUCTS FOR TOUGH CONDITIONS

Rigging equipment

- Shackles
- Thimbles and links
- Sockets
- Pelican hooks
- Quick release hooks
- Lifting slings – chain, wire and webbing
- Wire rope
- Towtectors – towline protectors

Fendering

- Largest Yokohama fender stockists in the world
- Yokohama approved repair & refurbishment facility
- Pneumatic rubber fenders
- Chain & tyre nets
- Naval fendering
- Dock & tug extruded fendering
- Cylindrical fenders

Buoys

- Design and manufacture of buoyancy and floatation solutions
- Navigation buoys
- GRP mouldings
- Beacons and lights
- Chain support buoys
- Anchor pendants

Emergency towing equipment - OCIMF compliant

- Smit brackets
- Panama bow fairleads
- Chain stoppers

Marine hardware

- Anchors
- Stud link chain
- Mooring chain
- Connectors including:- Kenter, pear links, joining & anchor shackles
- Swivel forerunners
- Wire and chain chasers
- Sinkers
- Grapnels
- Winches and spooling machines

Marine operations

- Ship to ship transfer (STS)
- Emergency lightering operation
- Mooring Masters for STS, FPSO/FSO berthing operations
- SPM installations
- Consultancy for port development

Deck mooring equipment

- Bollards
- Chain stoppers
- Deck sheaves
- Deck rollers
- Multi angle fairleads
- Multi angle swivel head fairleads

Quay-side mooring equipment

- Mooring bollards – Triton - Twin horn T head - Pillar
- Quick release mooring hooks

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