A close-up photograph of a thick, orange braided rope. The rope is coiled and the braiding pattern is clearly visible, showing multiple strands twisted together. The background is dark, making the bright orange rope stand out.

Southern  **ropes**

COMMERCIAL
ROPE
CATALOGUE

Version I



ABOUT US

FOUNDED IN 1984, Southern Ropes is one of the largest manufacturers of high quality synthetic ropes. We cater to an array of markets, including Commercial Marine, Leisure Marine, Industrial, Mining and The Armed Forces.

As a company Southern ropes have been servicing and manufacturing commercial mooring lines to all sectors of the marina industry. With many years of experience we

have developed a wide knowledge within the industry. We have provided all types and combinations of mooring and winch lines suiting our customer requirements.

We manufacture all combinations of ropes to standard and custom specifications; Southern Ropes is at the forefront of rope innovation. Combining the latest rope making technologies with strong and durable materials like Stealth Fibre®, HMPE,

Dyneema®, Vectran® and Technora®. We also work closely with other manufactures to be able to offer and supply a more diverse range of ropes, safety equipment and services.

We offer a huge range of ropes for many different applications, for further information on our ranges please contact our sales team on: 01489 589333 or on email: sales@southernropes.co.uk



Dyneema® is a registered trademark of DSM IP Assets B.V. Technora® and Twaron® are registered trademarks of Teijin Limited. Vectran® is the registered trademark of Kuraray Co. Ltd. Zylon® is a registered trademark of Toyobo Co. Ltd. The trademarks identify and denote the independent sources of material from which ropes are manufactured with which entities Southern Ropes has no commercial or legal association of any kind.

Stealth Fibre® Super-12®, Polyrene® and Polysteel® are registered trademarks of Southern Ropes (Pty) Ltd. Stealth Fibre® and Super-12® are registered trademarks of Southern Ropes UK Ltd.

WORLDWIDE

Southern Ropes is a global business, shipping ropes worldwide by Sea, Road and Air. The business spans across many different market sectors such as Fishing, Leisure Marine, Commercial Marine, industrial Rope Access, Mining and the Armed forces.

We aim to deliver a reliable, fast and efficient delivery service of our products. Our years of experience in shipping all types and sizes of orders from small parcels to 40ft containers worldwide allows us to deliver an excellent International Customer Service.

No shipment too small, too big, or too far.

International Distribution

- By Road
- By Sea
- By Courier
- Bespoke Service



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PHYSICAL ROPE PROPERTIES

COMPARATIVE CHARACTERISTICS OF VARIOUS FIBRES

	NYLON	POLYESTER	HMPE	POLYPROPYLENE/ POLYESTER MIX	POLYETHYLENE
Tenacity of dry fibre (in grams/denier)	9.0	8.5	30	6.5-8.5	5 - 6.0
Wet strength compared to dry strength	85 - 90%	100%	100 %	100%	100%
Rope shock load absorption ability	Excellent	Good	Poor	Good	Very Good
Specific gravity of fibres or filaments	1.14	1.38	0.99	0.99	0.92
Able to float	No	No	Yes	Yes	Yes
Typical per cent of rope elongation at Break	20-30%	12-18%	3.5 %	12-18%	20-25%
Creep (extension under sustained load)	Moderate	Low	Very Low	Moderate	High

CHEMICAL RESISTANCE

	NYLON	POLYESTER	HMPE	POLYPROPYLENE/ POLYESTER MIX	POLYETHYLENE
Effects of Acids	Decomposed by strong mineral acids: resistant to weak acids	Resistant to most mineral acids: disintegrated by 95% sulphuric acid	Very Resistant	Decomposed by strong sulphuric acid	Very Resistant
Effects of Alkalis	Little or none	No effect cold: slowly disintegrated by strong alkalis at the boil	Very Resistant	Decomposed by strong alkalis at high temp	Very Resistant
Effect of Organic Solvents	Resistant, soluble in some phenolic compounds and in 90% formic acid	Generally unaffected. Soluble in some phenolic compounds	Very		
Resistant	Resistant to organic solvent	Soluble in hot chlorinated hydrocarbons			

DEGRADATION

	NYLON	POLYESTER	HMPE	POLYPROPYLENE/ POLYESTER MIX	POLYETHYLENE
Resistance to ultraviolet in sunlight	Good	Good	Excellent	Good	Good (UV-Stabilised)
Aging resistance for properly stored rope	Excellent	Excellent	Excellent	Excellent	Excellent

ROPE ABRASION RESISTANCE

	NYLON	POLYESTER	HMPE	POLYPROPYLENE/ POLYESTER MIX	POLYETHYLENE
Surface	Very Good	Best	Excellent	Best	Fair
Internal	Excellent	Best	Excellent	Best	Good

EFFECT OF TEMPERATURE ON DRY ROPE

	NYLON	POLYESTER	HMPE	POLYPROPYLENE/ POLYESTER MIX	POLYETHYLENE
High temperature working limit	149°C	149°C	80.C	110°C	80°C
Low temperature working limit	-21°C	-21°C	-50°C	0°C	-50°C
Melts at	249°C	250°C	150°C	165°C	130°C

Specific Gravity

The density of a material relative to the density of the water. The specific gravities of the common fibre types are shown in the following table.

RELATIVE DENSITY	
MATERIAL	RELATIVE DENSITY
Polypropylene	0.91
HMPE	0.97
Fresh Water	1
Sea Water	1.03
Nylon	1.14
Polyrene®	1.14
Polyester	1.38
Aramid	1.44
Vectran®	1.41
Zylon®	1.54
Steel	7.85

Melting Point

The table below shows typical melting or decomposition temperatures of common rope making yarns.

MELTING POINT	
MATERIAL	MELTING POINT °C
HMPE	150
Polypropylene	170
Nylon	220
Polyester	260
Vectran®	330
Aramid	500 (decomposition)
Zylon®	650 (decomposition)



CHEMICAL RESISTANCE

MELTING POINT °C								
CHEMICAL	CONC WW%	TEMP °C	TIME HOURS	NYLON	POLYESTER	POLYPROPYLENE	ARAMID	HMPE
Acids								
Hydrochloric	34	20	100	0	90	100	95	100
Nitric	66	20	100	0	70	100	95	95
Sulphuric	96	20	100	0	100	100	40	90
Formic	90	20	100	0	95	100	90	100
Acetic	100	20	10	85	95	100	100	100
Alkalis								
Caustic Soda	40	20	100	50	0	90	90	100
Caustic Soda	20	70	150	100	0	100	85	90
Caustic potash	40	20	100	90	0	90	90	100
Solvents								
Trichloroethylene	100	30	150	100	95	80	100	100
Carbon Tetrachloride	100	20	150	100	100	100	98	100
Benzene	100	70	150	100	100	100	98	95
Metacresol	100	100	4	0	0	100	80	100
Oxidising Agent								
Hydrogen Peroxide	10	20	100	0	100	90	95	100

GENERAL ROPE CARE

Ropes can be damaged in many ways, the main causes are UV rays, chemicals, oil, sharp objects, and abuse.

- Don't store your rope in direct sunlight.
- Avoid excessive exposure to oil, chemicals, and chemical fumes.
- Using a rope bag will prolong the life of your rope.
- Never step on your rope. This grinds particles of dirt into the rope's core causing internal abrasion.
- Give your rope a bath on occasion.
- Retire your rope, when it shows signs of wear.
- Inspect each line before use. It is impossible to state when to replace a line, but if you have any doubts about the integrity of the line, replace it.

Uncoiling New Rope

Remove rope properly from coils to prevent kinking. The rope should be removed by pulling it off from the centre upwards while the coil is on the floor. To proceed in any other manner may cause kinks or strand distortion. Never uncoil rope from the side of the coil.

Unreeling New Rope

To take rope off the reel, place the reel on its side and put a bar through the center of the reel. Hook the bar up so the reel can spin freely. Pull the rope off the reel. This will prevent the rope from getting kinks in it.

Handling

Never stand in line with rope under tension. If a rope fails it can recoil with lethal force. Synthetic rope has higher recoil tendencies than natural fibre rope. Reverse rope ends regularly. This permits even wearing and assures a longer, useful life.

Abrasion

Wherever possible, abrasive conditions should be avoided. All rope will be severely damaged if subjected to rough surfaces or sharp edges. Chocks, bits, winches, drums and other surfaces must be kept in good condition and free of burrs and rust. Pulleys must be free to rotate and should be of proper size to avoid excessive wear. Clamps and similar devices will damage and weaken the rope and should be used with extreme caution. Do not drag rope over rough ground. Dirt and grit picked up by rope can work into the strands, cutting the fibres inside and internal fibres.

Pulleys and Sheaves

For braided ropes, pulley diameters should always be no less than 8 times the rope diameter to ensure maximum efficiency of the rope. Twisted ropes should be 10 times the rope diameter. The pulley groove should support the rope over approximately one third of its circumference as too tight or too flat a groove will increase rope wear. Pulleys must be free to rotate properly and should not be used if they have any sharp edges or rough surfaces. Winches, winch drums, bitts, chocks and other surfaces against which a rope is to be used should be in good condition and free of burrs, rust and paint.

Capstans and Winches

When a rope is used on capstan or winch, care should be exercised to avoid surging while capstan or winch head is rotating. Excessive surging or slippage causes overheating which can melt or fuse the synthetic fibres and resulting in loss of strength. A risk of deterioration occurs if a rope remains in the same working or bearing position over long periods of use. It can be reversed or swapped to spread the wear or if long enough can be periodically moved to a new bearing position.

Sharp Bends

Sharp bends around any piece of equipment should be avoided. It causes uneven stress in the rope due to fibres on the outer radius of the bend taking more load than those on the inner radius.

Chemicals

Most synthetic fibres will withstand small doses of common chemicals in low concentration. Refer to the Chemical Resistance table on page 7, if you have any doubt please contact us for clarification. It is generally advisable to avoid exposure to chemicals where possible.

Temperature

High and low temperatures can affect rope performance and strength. The published break loads are for ropes tested at room temperature. Ropes have lower tensile strengths at higher temperatures. Also continued exposure at elevated temperatures can melt and part synthetic ropes or cause permanent damage.

Splicing

Splicing is the recommended method for terminating ropes. Knots can decrease rope strength by as much as 60%, whereas splicing only reduces it by less than 10%. Other terminations can be used but their strength loss with a particular type of rope and construction should be determined and not assumed.

Storage & Care

All rope should be stored clean, dry, out of direct sunlight and away from extreme heat. Some synthetic rope (particularly polypropylene, polyethylene, PBO or Zylon® and Aramid) may be severely weakened by prolonged exposure to ultraviolet (UV) rays unless specifically stabilized and/or coated to increase its UV resistance. UV degradation is generally indicated by discoloration and the presence of splinters and slivers on the surface of the rope.

Break Load

All break tests are performed in accordance with CI500 and ISO2307, under laboratory conditions. Published break loads are the average of many tests. Never use a rope near to its break load nor design using its break load without a safety factor. A safe working load (SWL) must always be adhered to.

Safe Working Loads

SWL recommendations vary greatly depending on industry, application and rope condition. For a rope in good condition and under normal working conditions with appropriate splices. Southern Ropes recommends a minimum safety factor of 5:1 or 20% of the break load.

Dynamic Loads

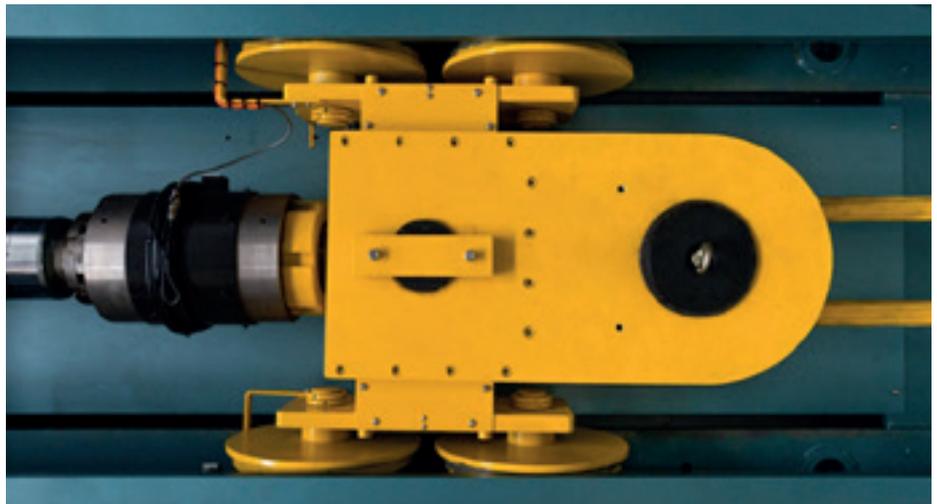
Normal working loads are not applicable when rope is subject to significant dynamic loading. Instantaneous changes in load, up or down, in excess of 10% of the line's rated working load constitutes hazardous shock load and would void normal working loads. Whenever a load is picked up, stopped, or swung there is an increased force due to dynamic loading. The more rapidly or suddenly such actions occur, the greater the increase will be. Examples could be picking up a tow on a slack line or using a rope to stop a falling object. Therefore, in all such applications such as towing lines, lifelines, safety lines, climbing ropes, etc., working loads as given do not apply. Users should be aware that dynamic effects are greater on a low stretch rope such as polyester than on a high stretch rope such as nylon, and greater on a shorter rope than on a longer one. The working loads listed contain provision for very modest dynamic loads. This means, however, that when the working load has been used to select a rope, the load must be handled slowly and smoothly for the working loads to be valid.

Testing & Quality Assurance

Southern Ropes is capable of in-house tensile testing up to 300 metric tonnes

in Cape Town. Batches are tested frequently, and each rope is toughly examined before leaving the factory. Our strict quality control ensures only the

highest standard reaches our customers. Other test services include proof reading and cyclic loading and constant load tests.



INSPECTION/REPAIR AND RETIREMENT CHECKLIST



Any rope that has been in use for any period of time will show signs of wear and tear, some characteristics of use will not reduce strength while others will. Ropes should be inspected on a regular basis for wear and tear and any faults / repair / retirement required.

- **ABRASION:** Broken strands or yarns caused by rough or sharp edges and surfaces (repair or replace depending on location and internal or external damage).
- **GLOSSY OR GLAZED AREAS:** Glossy or glazed are signs of heat damage these areas will have lost strength and the areas around the melted fibres may also be affected (replace rope).
- **DISCOLORATION:** Keep an eye out for discoloration that could be caused by chemical contamination, asses what has caused the discoloration and replace if brittle or stiff.
- **INCONSISTENT DIAMETER:** Inspect all flat areas or lumps, this could be core or broken internal strands damage from overloading or shock loads. Replace rope.
- **INCONSISTENT TEXTURE:** If the rope has an inconsistent texture or is stiff, this could be a build-up of dirt or grit embedded in the rope or shock load damage – replace rope.

RETIREMENT ACTION LIST

IF THE ROPE IS SHOWING SIGNS OF ONE OR MORE OF THE BELOW:	REPAIR OR DISCARD
Outer cover damaged including eyes	DISCARD
Rope diameter reduced by abrasion	DISCARD
Rope shows any signs of cut strands	DISCARD
Localised areas of stiffness	DISCARD
Areas of heat fusion	DISCARD
Discoloration (chemical contamination)	DISCARD
Inconsistent in diameter	DISCARD
Pulled strand	REPAIR
Melted or glazed fibres	REPAIR
Damaged Eye	REPAIR





STEALTH FIBRE[®]

STRONGER THAN THE STRONGEST

Stealth Fibre[®] is a leading edge brand of UHMwPE. Our Stealth Technology increases fibre crystallinity and evens out the stresses in the rope, allowing for all strands to share the load equally and therefore increasing performance and Break Load (kg). It has strength second to none.

This range is made using the latest thermofixation process machinery. The process incorporates a colour treatment and stretching under controlled temperatures with a precise continuous applied load to orientate the molecular chain structure of the UHMwPE fibres in the ideal load direction of the rope.

This process achieves significant improvements in the break load of the rope and virtually eliminates the creep compared to merely just braiding 'strong' fibres together and applying traditional urethane with heat treatment. This process compacts the yarns and increases the net fibre density of the rope.



STEALTH SUPER-12[®]

This rope is designed for high load applications where exceptionally low weight is required—making for an excellent wire-replacement rope. The heat treatment and polyurethane coating applied increases the rope's abrasion resistance, prolonging its life.

Super-12[®] total fibre linear density exceeds the ISO 10325 minimum linear density specifications for HMPE fibre rope, 12-Strand construction specifications for all diameters. More diameter detail available on request.

DIAMETER

- > 1-105mm (larger diameters available on request)
- > *Standard Colour silver-grey*
- > *Other colours available on request*

LENGTHS

- > 200m reels
- > Custom lengths available and long lengths available on request

TECHNICAL

- > Material: Ultra-high molecular weight polyethylene (UHMwPE)
- > 32 cN/dtex tenacity
- > 3.5% elongation at break
- > 0.98 g/cm³ density

APPLICATION

- > Wire rope replacement
- > Winch lines
- > Towing
- > Lifting

OPTIONS

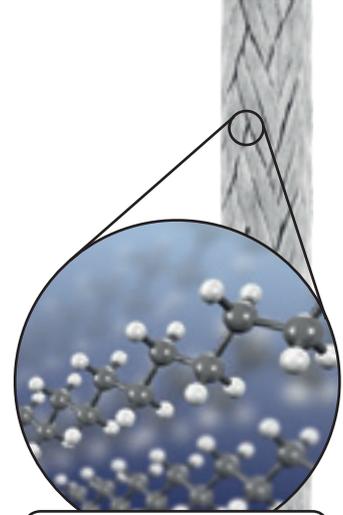
- > Available in 3 constructions:
 - Single strand (1 - 9mm)
 - Double strand (10 - 60mm)
 - Braid-on-braid (64 - 105mm)
- > Protective cover braid
- > Larger diameters
- > Spliced eyes
- > Thimbles
- > Proof loading with certificate

FEATURES

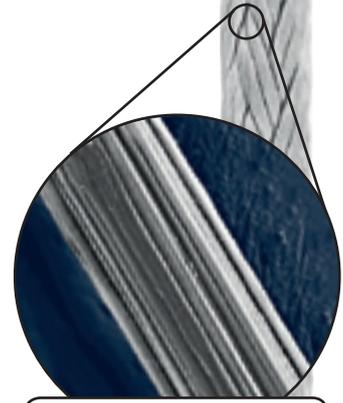
- > Extreme Strength-to-Weight Ratio
- > 15 times stronger than steel
- > Safer than wire (low recoil)
- > Hydrophobic fibre (no water absorption)
- > Floats
- > Low Creep
- > Easy to splice
- > Resistant to Kinking
- > Maintains high strength around tight-radius bends
- > Exceptional UV and chemical resistance
- > Abrasion-resistant coating reduces likelihood of snagging and superior winch drum grip

STEALTH SUPER-12[®]

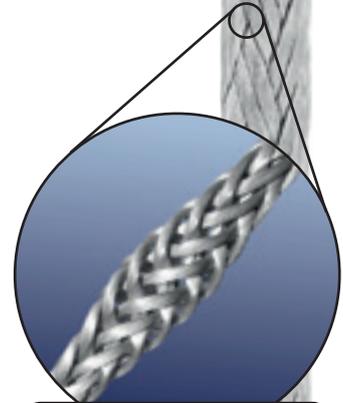
DIAMETER (MM)	SPLICED BREAK LOAD (METRIC TONNE)	LINEAR BREAK LOAD (METRIC TONNE)
3	1.3	1.4
3.5	1.7	1.9
4	2.2	2.4
5	3.1	3.4
6	4.3	4.8
7	5.2	5.8
8	6.6	7.3
9	8.4	9.3
10	9.7	10.8
11	10.9	12.1
12	15.3	17.0
13	15.9	17.6
14	17.9	19.9
15	20.0	22.2
16	21.2	23.5
16.5	23.5	26.1
17	27.0	30.0
18	31.3	34.7
19	34.9	38.7
20	40.8	45.3
22	47.0	52.2
24	55.2	61.3
26	65.3	72.5
28	76.0	84.4
30	82.5	91.6
32	84.6	93.9
36	106.8	118.5
38	118.0	131.0
40	131.0	145.4
44	157.0	174.3
48	181.0	200.9
52	201.0	223.1
56	230.0	255.3
60	268.0	297.5
64	320.0	355.2
68	360.0	399.6
72	400.0	444.0
76	450.0	499.5
80	500.0	555.0
105	850.0	943.5



Simple polymer with outstanding performance characteristics



Highly orientated fibres for the increased strength



Braided construction allows for easy splicing

Tested in accordance with ISO 2307

FIBRE ROPE SLINGS

Super-12® lifting slings manufactured by a competent team of in-house splicers. These slings are lightweight, efficient and easy to handle option as an alternative to a wire rope sling. The Super-12® Fibre rope sling is much safer to use than a wire rope sling as they are so much lighter, with little to no recoil. The diameter will be less than that of a wire sling vs the break load.

Super-12® Fibre Slings made from Stealth Fibre®. The information is based on Southern Ropes approved splices. Fibre Rope slings are manufactured under ISO 2307 and EN 1492 standard made with Super-12®. The figures below represent new slings.

Safe Working Load Factors under General Usage of Synthetic Fibre Rope Slings Direct Loaded or Hitched are:

	SINGLE LEG		DOUBLE LEG				BASKET HITCHED								
	CHOKE HITCHED		DIRECT LOADED		CHOKE HITCHED		Round Load				Rect Load				
	Round Load	Rect Load			Round Load	Rect Load									
A=															
L=	0.75	0.5	0-60°	90°	120°	1.3	0.87	0°	60°	90°	120°	1.0	0.87	0.71	.05

*a = angle / factor L = load

Notes:

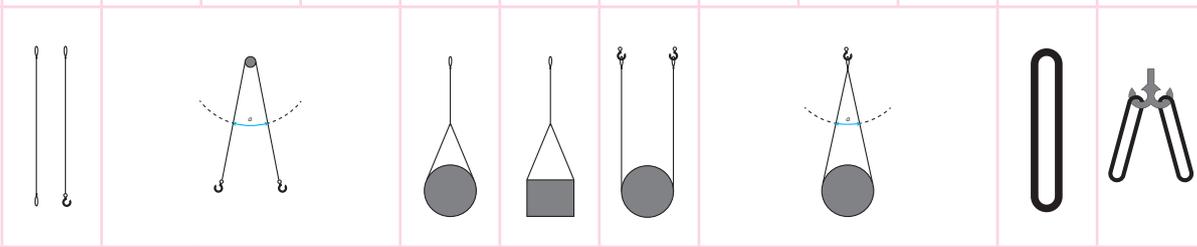
1. Minimum BF ratings of the rope are stated in ISO 2307 or as evidenced by the manufacturer's certificate in the case of UHMwPE fibres and plaited construction.
2. SWL formula = (Minimum Breaking Force) x L/(9.81 65 x 8) and the exact (i.e. non-rounded) values for L.

Key Considerations in Selecting correctly Specified Product for the application:

- Ropes selection must consider all the fibre characteristics as per the manufactures load specification and mode / factors as per the EN1492 and ISO 2307 standards
- Ropes should not be subject to Dynamic (shock) Loading i.e. sudden application of 10 – 15% of the BF rating
- All mechanical hardware must be free from defect prior to use.
- Ropes should not be subjected to excessive heat abrasion or chemical exposure.
- Strength loss factors must be applied to splicing (10 - 20% dependent on type) and up to 50% for basic knotting used for joining or termination.
- Always consult the manufacturer for technical information or assistance as required.



BREAK LOADS

		5:1 SAFE WORKING LOAD (TONNES)											
		DIRECT LOAD				CHOKE HITCH		BASKET HITCH				GROMMETS	
DIAMETER (MM)	MBL (T)	SINGLE	MULTILEG			SINGLE ROUND LOAD	SINGLE SQUARE LOAD	SINGLE ROUND LOAD				SINGLE	DOUBLE
			0 - 60°	90°	120°			0°	60°	90°	120°		
													
12	12.5	2.5	4.3	3.5	2.5	1.9	1.3	5.0	4.3	3.5	2.5	3.8	6.5
16	21.2	4.2	7.3	6.0	4.2	3.2	2.1	8.5	7.3	6.0	4.2	6.4	11.0
18	30.0	6.0	10.4	8.5	6.0	4.5	3.0	12.0	10.4	8.5	6.0	9.0	15.5
22	47.0	9.4	16.3	13.3	9.4	7.1	4.7	18.8	16.3	13.3	9.4	14.1	24.3
24	55.0	11.0	19.0	15.5	11.0	8.3	5.5	22.0	19.0	15.5	11.0	16.5	28.5
28	73.5	14.7	25.4	20.7	14.7	11.0	7.4	29.4	25.4	20.7	14.7	22.1	38.1
30	82.5	16.5	28.5	23.3	16.5	12.4	8.3	33.0	28.5	23.3	16.5	24.8	42.7
32	84.6	16.9	29.3	23.9	16.9	12.7	8.5	33.8	29.3	23.9	16.9	25.4	43.8
36	106.8	21.4	37.0	30.1	21.4	16.0	10.7	42.7	37.0	30.1	21.4	32.0	55.3
44	131.0	26.2	45.3	36.9	26.2	19.7	13.1	52.4	45.3	36.9	26.2	39.3	67.9
56	230.0	46.0	79.6	64.9	46.0	34.5	23.0	92.0	79.6	64.9	46.0	69.0	119.1
64	320.0	64.0	110.7	90.2	64.0	48.0	32.0	128.0	110.7	90.2	64.0	96.0	165.8
80	500.0	100.0	173.0	141.0	100.0	75.0	50.0	200.0	173.0	141.0	100.0	150.0	259.0
84	518.0	103.5	179.1	146.1	103.5	77.9	52.0	207.2	179.1	146.1	103.5	155.7	268.3
88	570.0	113.9	197.1	160.8	113.9	85.7	57.2	228.0	197.1	160.8	113.9	171.3	295.3
92	625.5	125.0	216.3	176.5	125.0	94.1	62.8	250.2	216.3	176.5	125.0	188.0	324.0
96	683.5	136.6	236.3	192.8	136.6	102.8	68.6	273.4	236.3	192.8	136.6	205.4	354.1
100	744.5	148.8	257.4	210.0	148.8	112.0	74.7	297.8	257.4	210.0	148.8	223.7	385.7
104	809.0	161.7	279.7	228.2	161.7	121.7	81.2	323.6	279.7	228.2	161.7	243.1	419.1
108	876.5	175.2	303.1	247.3	175.2	131.8	88.0	350.6	303.1	247.3	175.2	263.4	454.1
112	950.0	189.9	328.5	268.0	189.9	142.9	95.4	380.0	328.5	268.0	189.9	285.5	492.1

SUPER-Q12

Southern Ropes Stealth Super-12® mixed with spun polyester.

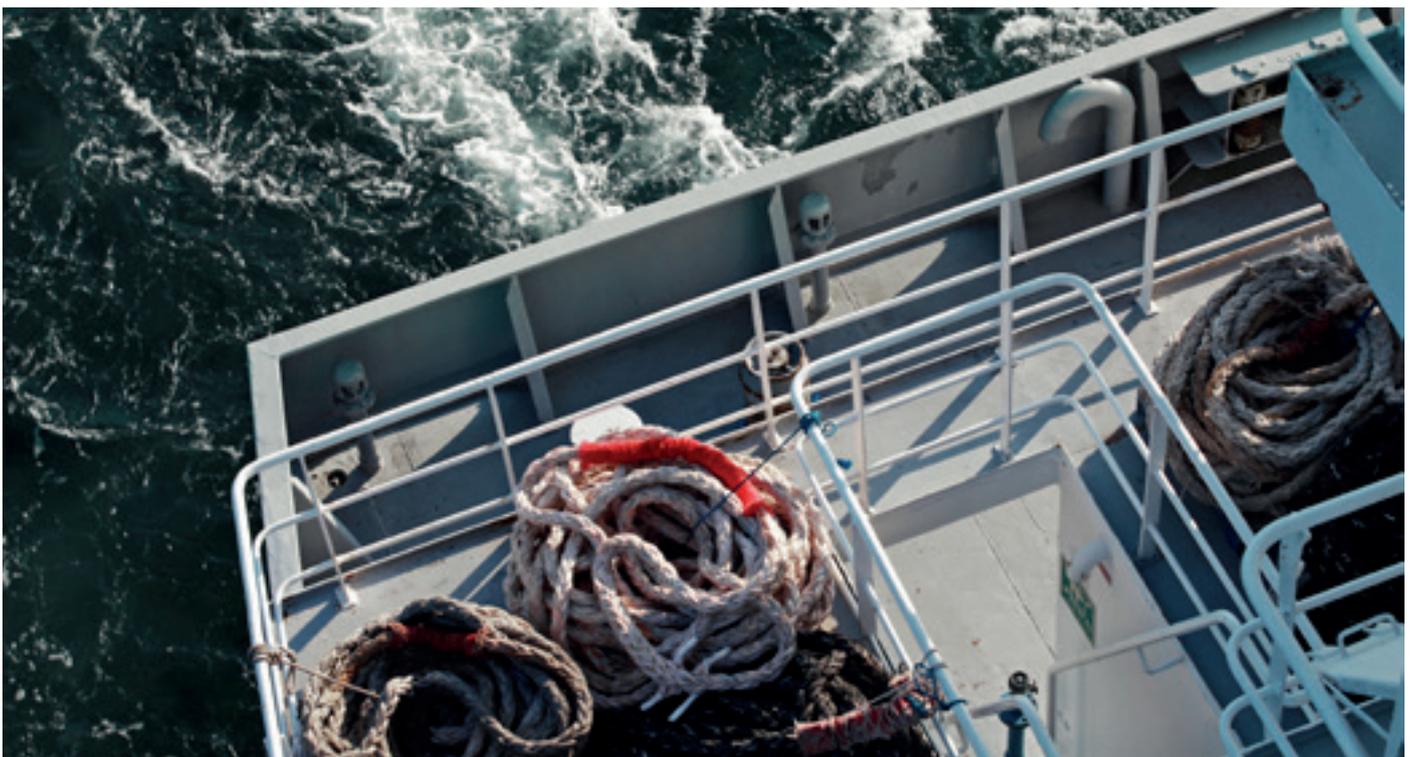
Super-Q12 is a high tenacity rope with excellent performance characteristics. Improved superior winch drum & Capstan haulers, with additional heat dissipation as a result of the polyester fibre especially when it is wet. Abrasion-resistant coating reduces likelihood of snagging and provides superior winch drum grip.

SUPER-Q12

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Winch ropes	High strength to weight ratio	Stealth Fibre® and spun polyester mix	Range: 20-36mm
Tow ropes	Safer than wire	Construction: 12-Strand	Colours available on request
Wire replacement ropes	High tenacity and abrasion resistance	Specific Gravity: 0.99	
	High resistivity to UV		
	Easy to Splice		
	Floats		
	Excellent breaking load with the smallest elongation		
	Exceptional performance		
	Very stable cross-section		

BREAK LOADS

DIAMETER (MM)	WEIGHT (kg/100M)	BREAK LOAD (TONNE)	PERCENTAGES AT BREAK STRENGTH	ELONGATION %
32	46kg	60	10%	0.65%
More diameter information available on request.			20%	0.75%
			30%	0.95%



TECH-12

High tenacity rope - Abrasion resistant rope

TECH-12

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Lifting	High tenacity and abrasion resistance	Material: Technora®	Spliced eyes
Camera zipline	High resistivity to UV	Construction: 12-Strand	Protective cover braid
	Low Creep	Decomposition: 500 degrees C	Spliced eyes with thimbles
	Easy to Splice	Specific gravity: 1.39	Proof loading certificates
	Exceptional heat resistance		Custom Cover Colours
	Felexible		
	Negligible creep		
	High Strength		

BREAK LOADS

DIAMETER (MM)	WEIGHT (kg/100M)	BREAK LOAD (TONS)
6	2.8	3.7
8	4.8	5.9
12	11.9	15
14	16.4	17.2
16	20.1	19.5
18	28.7	29.5
20	31.0	34.0
22	37.6	38.1



GP-12

This rope is designed for high load applications where exceptionally low weight is required - making for an excellent wire-replacement rope. The heat treatment and polyurethane coating applied increases the rope's abrasion resistance. GP-12 has superior colourfastness as the yarn is solution dyed, therefore prolonging the life of the rope.

GP-12

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Wire rope replacement	Solution dyed Stealth Fibre® (excellent colourfastness)	Material: Stealth Fibre® Heat-set UHMwPE with polyurethane coating	Available in 2 constructions:
Winch lines	Extreme strength-to-weight ratio	Construction: 12-Strand	Single strand (1 – 9 mm)
Towing	15 times stronger than steel		Double strand (10 – 20 mm)
Lifting	Maintains high strength around tight-radius bends		Custom colours: Black (Standard), White, Blue, Orange, Yellow
	Hydrophobic fibre (no water absorption)		Protective cover braid
	Floats		Larger diameters
	Low creep		Spliced eyes
	Easy to splice		Thimbles
	Resistant to kinking		Proof loading with certificate
	Safer than wire (low recoil)		
	Exceptional UV and chemical resistance		
	Abrasion-resistant coating reduces likelihood of snagging and provides superior winch drum grip		

GP-12 total fibre linear density exceeds the ISO 10325 minimum linear density specifications for HMPE fibre rope, 12-Strand construction specifications for all diameters. More diameter detail available on request.

BREAK LOADS

DIAMETER (MM)	SPLICED BREAK LOAD (METRIC TONNE)	LINEAR BREAK LOAD (METRIC TONNE)	DIAMETER (MM)	SPLICED BREAK LOAD (METRIC TONNE)	LINEAR BREAK LOAD (METRIC TONNE)
3	1.3	1.4	13	15.9	17.6
3.5	1.7	1.9	14	17.9	19.9
4	2.2	2.4	15	20.0	22.2
5	3.1	3.4	16	21.2	23.5
6	4.3	4.8	16.5	23.5	26.1
7	5.2	5.8	17	27.0	30.0
8	6.6	7.3	18	31.3	34.7
9	8.4	9.3	19	34.9	38.7
10	9.7	10.8	20	40.8	45.3
11	10.9	12.1	22	47.0	52.2
12	15.3	17.0			

SOFT SHACKLES

Soft Shackles are the perfect replacement for the traditional metal snap shackle and screw shackles. Soft Shackles are made out of HMPE and are adjustable. The shackle is made to connect straps or slings to vehicles, blocks or sheets on a boat. The soft shackle is a versatile tool with many applications.

The advantage of the soft shackle is that it is light and easy to handle. You do not need a special tool to open or close the soft shackle as you can pull the soft shackle open by hand. The shackle will pull tight under tension and then once it is relaxed it will be easy to open. The shackle will not damage anything around it or corrode or rust.



LEISURE MARINE SOFT SHACKLES

DIMENSIONS	NET WEIGHT (G)	SHACKLE LOAD (kg)
3mm x 4cm	6	1270
4mm x 5.5cm	10	2260
5mm x 7.5cm	22	3400
6mm x 9cm	40	5200

INDUSTRIAL SOFT SHACKLES

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Steel shackle replacement	Exceedingly high strength-to-weight ratio	Material: Super-12®	Additional coating
Connecting links	Will not rust or corrode	Construction: 12-Strand	Colour: Silver-grey, other colours available on request
Vehicle recovery	Lightweight and flexible to reduce the risk of back injuries and assist with on-site handling		Break loads: 30-500 tonne Higher loads available on request
Vehicle towing	Floats on water and will not sink in mud		Minimum length dependent on break load (see Break Loads)
Lifting	No tools required		Cover available on body if requested

Maintains high strength around tight-radius bends

Low elongation

Minimal recoil at break

Abrasion-resistant

High resistance to bending fatigue

Exceptional UV and chemical resistance

Certified tonnage rating

Traceable and durable ID tags

Proof load with certificate



BREAK LOADS

BREAK LOAD (T)	MIN. OPEN LENGTH (M)	BREAK LOAD (T)	MIN. OPEN LENGTH (M)	BREAK LOAD (T)	MIN. OPEN LENGTH (M)
30	1.0	150	1.5	350	2.5
50	1.0	200	1.5	400	2.5
70	1.2	250	2.0	450	3.0
100	1.2	300	2.0	500	3.0

SUPERLINE

Super-12® with a custom cover

The combination of Super-12® core and custom cover offers the unique ability to build a rope to suit a specific application.

SUPERLINE

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Towlines	[See next table]	Cover: Custom	20 – 50 mm
Mooring lines		Core: Super-12®	Cover Fibre Choices:
Wire rope replacement		Construction: Braid-on-braid	Stealth Fibre®
Winch line			Aramid
			Vectran®
			Super Braid - Polyester
			Nylon
			Multifilament Polypropylene
			Polyethylene
			Combinations of the above are also available
			Colour depends on fibre choice (custom colours only available with Multifilament Polypropylene, Nylon, Polyester and Polyethylene)

COVER

FIBRE	ABRASION RESISTANCE	TENSILE STRENGTH	UV RATING	SPECIFIC GRAVITY
Stealth Fibre®	••••	••••	•••••	0.98
Technora®	••••	•••••	•••	1.44
Vectran®	•••••	•••••	•••	1.40
Multifilament Polypropylene	••	••	••••	0.91
Nylon	••••	•••	••••	1.14
Polyester	•••	•••	•••••	1.38
Polyethylene	••	••	••••	0.91



Superline total fibre linear density exceeds the ISO 10325 minimum linear density specifications for HMPE fibre rope, 12-Strand construction specifications for all diameters.

BREAK LOADS

FINISHED DIAMETER (MM)	CORE DIAMETER (MM)	SPLICED BREAK LOAD (T)	LINEAR BREAK LOAD (T)
5	3	1.3	1.4
6	3.5	1.7	1.9
7	4	2.2	2.4
8	5	3.1	3.4
9	6	4.3	4.8
10	7	5.2	5.8
12	9	8.3	9.2
14	11	10.9	12.1
16	13	15.9	17.9
18	15	20	22.2
20	17	27	30
22	18	31.3	34.7
24	20	40.8	45.3
22	22	47	52.2
28	24	55.2	61.3



POLYESTER

Polyester ropes remain flexible and soft to handle even when wet. The ropes are spliced easily into soft eyes for use in mooring lines or lanyards. Polyester does not lose strength when wet, has excellent UV resistance, very good abrasion resistance, and will not shrink under normal conditions. Polyester has a higher specific gravity than Nylon or Polyrene®, and is therefore similarly, a sinking rope. Polyester ropes manufactured at Southern Ropes exceed both the British and European Standard published by the European Committee for Standardization, or CEN (BS EN 697:1995).

POLYESTER

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Anchor warps	BS EN 697:1995	Material: Polyester	6 – 46mm
Mooring warps	Strength not affected by water	Construction: 3- & 4-Strand, 8-Strand and 12-Strand	220m coils
Lanyards	Does not shrink		White, black, navy
Fender lines	UV resistant		Red or green if ordered in sufficient quantity.
Towing lines	Abrasion resistant		Larger diameters available on request
Traditional halyards and ropes	Sinking rope		
Net frame ropes			
General-purpose industrial ropes			

3- & 4-STRAND POLYESTER

DIAMETER (MM)	REEL SIZE (M)	kg / REEL	BREAK LOAD (kg)
6	220	6.5	850
8	220	11.6	1450
10	220	18	2290
12	220	26	3450
14	220	35.3	4400
16	220	46	6000
18	220	58.3	7000
20	220	72	8400
22	220	87	10800
24	220	104	12500
26	220	122	14250
28	220	141	16500
30	220	162	18700
32	220	184	20800
36	220	233	25700
38	220	260	28350
40	220	288	35000
42	220	317	38580
44	220	348	42340
46	220	380	46270



8-STRAND POLYESTER

DIAMETER (MM)	REEL SIZE (M)	kg / REEL	BREAK LOAD (kg)
32	220	184	20800
36	220	233	25700
38	220	260	28350
40	220	288	35000
44	220	348.5	37600
48	220	414.7	42100
50	220	450	53450
56	220	565	59800
60	220	648	68600
64	220	737	81000
68	220	832	89000
72	220	933	99000
76	220	1037	104000
80	220	1152	116000
82	220	1210	120000
84	220	1270	125000
88	220	1393	135000
92	220	1522	147550
96	220	1657	160600
100	220	1798	174300



12-STRAND POLYESTER

DIAMETER (MM)	REEL SIZE (M)	kg / REEL	BREAK LOAD (kg)
8	220	11.6	1595
10	220	18	2519
12	220	26	3795
14	220	35.3	4840
16	220	46	6600
18	220	58.3	7700
20	220	72	8140
22	220	87	11880
24	220	104	13750
26	220	122	15675
28	220	141	18150
30	220	162	20570
32	220	184	22880
36	220	233	28270
38	220	260	31185
40	220	288	38500
44	220	348.5	41360
48	220	414.7	46310
50	220	450	58795
56	220	565	65780
60	220	648	75460





NYLON

General purpose sinking rope that hardens and shrinks with use in water. The rope has excellent stretch and recovery characteristics and is used in many anchoring and mooring applications. Nylon loses 10% of its break load (kg) when wet. New Nylon ropes can stretch up to 35% of their length before they break. The stretch characteristics of a used rope will reduce proportionally to the number of times it has been worked, and to the load that it has been subjected to. Nylon ropes manufactured at Southern Ropes exceed both the British and European Standard published by the European Committee for Standardization, or CEN (BS EN 943:2002).

NYLON

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Mooring lines	BS EN 943:2002	Material: Nylon	3 – 44 mm
Anchor warps	Resilient and abrasion resistant	Construction: 3-Strand, 8-Strand and 12-Strand	Available in white
Towing lines	High stretch		220 m reels (other lengths available on request)
Fishing lines	Shock absorbing		
Kinetic ropes			
Parachute anchor lines.			

3-STRAND NYLON

DIAMETER (MM)	REEL SIZE (M)	kg / REEL	BREAK LOAD (kg)
6	220	5.2	750
8	220	9.3	1350
10	220	14.3	2080
12	220	20.6	3000
14	220	28	4100
16	220	36.5	5300
18	220	46	6700
20	220	57	8300
22	220	69	10000
24	220	82	12000
26	220	97	13900
28	220	112	15800
30	220	129	17900
32	220	146	20000
36	220	184	24800
38	220	206	27400
40	220	228	30000
42	220	252	33075
44	220	276	36300
46	220	302	39670



8-STRAND NYLON

DIAMETER (MM)	REEL SIZE (M)	kg / REEL	BREAK LOAD (kg)
40	220	228	30000
44	220	276	35800
48	220	330	42000
50	220	357	45400
56	220	448	56000
60	220	512	63800
64	220	582	72000
68	220	660	81000
72	220	738	90000
76	220	825	100000
80	220	915	110000
82	220	961	115000
84	220	1006	120500
88	220	1104	131000
92	220	1210	145000
96	220	1320	151000
100	220	1430	163800
120	220	1030	235800



12-STRAND NYLON

DIAMETER (MM)	REEL SIZE (M)	kg / REEL	BREAK LOAD (kg)
8	220	9.3	1485
10	220	14.3	2288
12	220	20.6	3300
14	220	28	4510
16	220	36.5	5830
18	220	46	7370
20	220	57	9130
22	220	69	11000
24	220	82	13200
26	220	97	15290
28	220	112	17380
30	220	129	19690
32	220	146	22000
36	220	184	27280
38	220	206	30140
40	220	228	33000
44	220	276	39380
48	220	330	46200
50	220	357	49940
56	220	448	61600





Polyrene® been developed as an economic alternative to nylon, maintaining similar strength, specific gravity and appearance characteristics, without water-related strength loss or hardening with use. A new rope will stretch approximately 25% at break. The permanent elongation after initial loading to safe working load is approximately 4%.

POLYRENE®

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Mooring lines	Excellent abrasion resistance	Material: Polyrene®	20 – 44 mm
Anchor warps	UV resistant	Construction: 3-Strand, 8-Strand and 12-Strand	220 m reel size
Towing lines	Strength not affected by water		Available in white
Frame net ropes	Does not shrink		Other colours available on request
Foot ropes	Sinking rope		
Head lines			

3-STRAND POLYRENE®

DIAMETER (MM)	REEL SIZE (M)	kg / Reel	BREAK LOAD (kg)
6	220	5.2	800
8	220	9.3	1400
10	220	14.3	2100
12	220	20.6	3000
14	220	28	4100
16	220	36.5	5200
18	220	46	6600
20	220	57	8100
22	220	69	9500
24	220	82	11400
26	220	97	13200
28	220	112	15000
30	220	129	17000
32	220	146	19000
36	220	184	23560
38	220	206	26000
40	220	228	28500



8-STRAND POLYRENE®

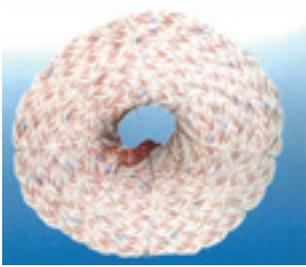
DIAMETER (MM)	REEL SIZE (M)	kg / Reel	BREAK LOAD (kg)
32	220	146	19000
36	220	184	23560
38	220	206	26000
40	220	228	28500
44	220	276	34000
48	220	330	40000
50	220	357	43100
56	220	512	53200
60	220	582	60000
64	220	660	68400
68	220	738	76000
72	220	825	85000
76	220	915	95000
80	220	961	104000
82	220	1006	109000
84	220	1104	114000



12-STRAND POLYRENE®

DIAMETER (MM)	REEL SIZE (M)	kg / Reel	BREAK LOAD (kg)
20	220	57	8910
22	220	69	10450
24	220	82	12540
26	220	97	14520
28	220	112	16500
30	220	129	18700
32	220	146	20900
36	220	184	25916
38	220	206	28600
40	220	228	31350
44	220	276	37400
48	220	330	44000
50	220	357	47410
56	220	448	58520
60	220	512	66000





MAXI FLEX

Polypropylene and Polyester Mix

Made from high tenacity co-polymer yarns. A competitive alternative to Nylon and staple Polypropylene. Inner polypropylene and outer Polyester construction.

MAXI FLEX

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Ideal for a variety of marine applications.	Excellent abrasion resistance.	Specific Gravity: 0.95	20-80mm
Ideal in fishing application as a general multi-purpose hard working rope.	Excellent strength.	UV Resistance: Good (as per customer request)	Available in 100m or 220m coils
Mooring, Towing, Securing	Flexible and easy to handle.	Floats	
Lifting and Messenger lines	Tremendous range of uses.	Abrasion Resistance: Good	
	Protected Spliced Eye at Each End.	Melting Point: 165°C	

CHEMICAL RESISTANCE

RESISTANCE TYPE	RESISTANCE LEVEL
Acids/Alkalis	Excellent
Oil/Gas	Very good
Dry & Wet conditions	Equal dry & wet
Abrasion Resistance	Good

8-STRAND MAXI FLEX

DIAMETER (MM)	kg/100M	kg/220M	BREAK LOAD (T)	BREAK LOAD (kN)
24	25.9	56.98	10.6	103.98
26	30.4	66.88	12.4	121.64
28	35.4	77.88	14.1	138.32
30	40.4	88.88	16	156.96
32	45.9	100.98	17.9	175.59
36	58.6	116.4	22	215.82
40	71.8	158.8	29	284.39
44	88.1	201.3	35	343
48	104	233.2	42	411
52	121.8	233.2	49	480.52
56	141.8	277.2	56.5	554.08
60	163.1	360	65	637.43
64	185	413.6	76	745.31
68	209.5	468.6	83	813.95
72	234.1	521.4	93	912.02
80	290	649	114	1117.96
88	350.1	774	137.5	1348.41
96	416.8	917.4	164	1608.29

12-STRAND MAXI FLEX

DIAMETER (MM)	kg/100M	kg/220M	BREAK LOAD (T)	BREAK LOAD (kN)
52	276	0.80	46.7	457.84
56	321	0.69	53.45	524.02
60	370	0.59	61.2	600.00
64	419	0.53	69.25	678.92
72	530	0.42	86.9	851.96
80	657	0.33	107.1	1050.00
88	793	0.28	128.5	1259.80
96	944	0.23	152	1490.20
104	1110	0.19	172.9	1695.10





SUPER FLEX

Polypropylene/Polyester Mix
High tenacity polypropylene & polyester
composite fibres.

SUPER FLEX

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Ideal for Marine applications	Wet strength equal to dry strength	Construction: 3-, 4-, 8- and 12-Strand	30-120mm
Ideal for towing Stretchers	High strength-to-weight ratio for ease of handling	Specific Gravity: 0.99 – 1.14	Available in white with a blue fleck
Single point mooring lines (SPM)	Exceptional resistance to frictional heat damage	Melting Point: Polyester 265 °C / Polypropylene 165 °C	
Lifting and Messenger lines	Manufactured in accordance with OCIMF guidelines	UV Resistance: Good	
	Remains flexible & easy to splice in use	Wet strength: Equal to dry	
	Does not absorb water	Abrasion Resistance: Excellent	
	Fully UV stabilized	Elongation: 18% at break	
	Excellent chemical resistance, except in the presence of alkalis		

3- & 4-STRAND SUPER FLEX

DIAMETER (MM)	kg/100M	kg/220M	BREAK LOAD (T)	BREAK LOAD (kN)
8	3.21	7.06	1.41	13.85
10	4.87	10.70	2.1	20.59
12	7.05	15.51	2.98	29.24
14	97.30	21.40	4.1	40.20
16	12.40	27.28	5.14	50.44
18	15.71	34.77	5.77	56.62
20	19.46	42.80	7.90	77.41
22	24.32	53.50	8.87	86.99
24	27.73	60.99	10.71	105.00
26	32.88	72.33	12.46	122.19
28	37.93	83.46	14.22	139.38
30	43.77	96.30	16.26	159.37
32	48.66	107.60	18.3	179.38
34	56.23	123.69	20.23	198.29
36	62.74	138.03	22.16	217.21
40	76.84	169.06	26.23	257.15
44	94.11	207.04	31.67	310.52
48	110.33	242.74	38.41	376.00

TCLL is the actual breaking load of a wet rope after 1000 cyclical loadings. This is expressed as a percentage of the original wet breaking strength.

3- & 4-STRAND SUPER FLEX

DIAMETER (MM)	kg/100M	kg/220M	BREAK LOAD (T)	BREAK LOAD (kN)
52	142.63	284.08	45.13	442.51
56	150.33	330.72	51.38	503.69
60	172.47	379.42	58.45	573.02
64	196.10	431.42	66.66	653.57
68	221.64	487.60	75.09	736.16
70	234.17	515.16	79.25	776.94
72	247.66	544.84	83.41	776.94
76	276.57	608.44	92.87	910.51
80	307.40	676.28	102.34	1003.29
84	339.68	747.30	112.63	1104.24
88	371.97	818.32	123.45	1210.27
96	441.83	972.02	146.23	1433.57
100	478.93	1053.64	157.25	1541.65

8-STRAND SUPER FLEX

DIAMETER (MM)	kg/220M	BREAK LOAD (T)	BREAK LOAD (kN)
36	132.0	24.8	243
40	192.5	34.2	336
44	228.8	40.8	400
48	264.0	47.4	465
52	310.2	55.5	545
56	345.4	63.2	620
60	402.6	72.4	710
64	453.2	81.6	801
68	510.4	91.8	901
72	567.6	102.0	1001
76	622.6	112.0	1101
80	701.8	125.0	1224
88	836.0	148.0	1456
96	983.4	174.0	1711

12-STRAND SUPER FLEX

DIAMETER (MM)	kg/100M	kg/220M	BREAK LOAD (T)	BREAK LOAD (kN)
52	148.64	327	64.3	630
56	168.64	371	72.8	714
60	189.55	417	81.2	796
64	210.46	463	90.4	886
68	245.46	540	104.1	1021
72	266.37	586	113.1	1109
76	314.55	692	134.1	1315
80	347.73	765	148.1	1452
88	414.55	912	175.1	1717
96	488.64	1075	205.1	2011
104	562.28	1237	235.1	2305

MULTIFILAMENT POLYPROPYLENE

Multifilament Polypropylene ropes are soft, hold knots well, and are suitable for activities like camping, yachting and for hard work. Their softness makes them suitable ropes for cable railings and industrial uses. They consist of a stronger kind of polypropylene composed of thin, soft fibers which looks similar to nylon. The basic colour is white and is available as twisted as well as braided ropes.

MULTIFILAMENT POLYPROPYLENE

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Mooring	High strength and abrasion resistance	Construction: 3-,4- & 8-Strand	6 – 46 mm
Tow-Line	Excellent knotability	Specific Gravity: 0.91	220 m reels (other lengths available on request)
Marine Works	Resistant to UV radiation	Melting Point: 165 °C	Colours: White, Other colours available on request
Safety Net	Resistant in chemically active environments	UV Resistance: Stabilised As Per Customer Request	
Tug-line	Excellent insulation capacity	Dry & Wet conditions: Identical Wet & Dry Strengths	
Various Fishing Industries	It is easy to handle as it is smooth and flexible	Abrasion Resistance: Average	
Hawser	Shock resistance	Classification: DNV GL & Mills Floats/Sinks: Floats	

3- & 4-STRAND MULTIFILAMENT POLYPROPYLENE

DIAMETER (MM)	kg/100M	kg/220M	BREAK LOAD (T)	BREAK LOAD (kN)
6	1.78	3.92	0.4	4.31
7	2.43	5.35	0.6	5.69
8	3.17	6.97	0.7	7.35
9	4.01	8.82	0.9	9.12
10	4.95	10.89	1.1	11.10
11	6	13.20	1.3	13.20
12	7.15	15.73	1.7	16.30
13	8.2	18.04	1.9	18.70
14	9.5	20.90	2.2	21.70
16	12.5	27.50	2.8	27.80
18	15.75	34.65	3.5	34.50
19	17.6	38.72	3.9	38.30
20	19.5	42.90	4.3	42.10
22	23.75	52.25	5.1	50.20
24	28.25	62.15	6	59.00
25	30.5	67.10	6.5	63.30
26	33	72.60	7	68.50
28	38.5	84.70	8	78.60
30	43.75	96.25	9.1	89.30
32	50	110.00	10.3	101.00
34	56.5	124.30	11.5	113.00
35	59.5	130.90	12.1	119.00
36	63	138.60	12.8	126.00
38	70.5	155.10	14.1	138.00
40	78	171.60	15.6	153.00

8-STRAND MULTIFILAMENT POLYPROPYLENE

DIAMETER (MM)	kg/100M	451kg/220M	BREAK LOAD (T)	BREAK LOAD (kN)
42	85.5	188.1	17	167.00
44	93.7	206.14	18.5	181.50
45	98	215.6	19.4	190.00
48	112	246.4	21.7	213.00
50	121.5	267.3	23.5	231.00
52	131	288.2	25.1	246.00
55	146.5	322.3	28.1	276.00
56	152	334.4	28.8	283.00
60	174.5	383.9	33.1	325.00
64	202	444.4	37.2	365.00
65	205	451	38.4	377.00





POLYSTEEL®



A low cost, low weight (floating), UV resistant, and a high quality tensile synthetic rope, manufactured from extruded copolymer fibres, whose properties result in ropes that size for size are almost triple the strength of traditional manila natural fibre ropes, and almost 50% stronger than conventional tape polypropylene ropes. These ropes have a very good abrasion resistance and are manufactured in various colours, and to different specifications depending on their particular use and customer requirements.

POLYSTEEL®

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Fishing	ISO 1346:2012	Material: Polysteel®	6 – 46 mm
Agriculture	ISO 9554:2010	Construction: 3-Strand, 8-Strand and 12-Strand	220 m reels (other lengths available on request)
Aquaculture	Excellent abrasion resistance		Colours: White, Silver, Turquoise, Brick,
Long-lining	UV resistant		Other colours available on request
Safety nets	Lightweight		
Fishing nets	Floats		
Lifting, mooring			
Truck tie downs			
Concrete re-enforcement			
General purpose industrial use			

3-STRAND POLYSTEEL®

DIAMETER (MM)	REEL SIZE (M)	kg / REEL	BREAK LOAD (kg)
6	220	4	770
8	220	7	1360
10	220	10	2035
12	220	14.5	2900
14	220	20	3905
16	220	25.5	4910
18	220	33	6300
20	220	40	7600
22	220	49	8900
24	220	57	10490
26	220	68	12320
28	220	78	13900
30	220	90	16000
32	220	101	17500
36	220	130	22080
38	220	144	24350
40	220	158	26860
42	220	176	29613
44	220	193	31780
46	220	211	34734



8-STRAND POLYSTEEL®

DIAMETER (MM)	REEL SIZE (M)	kg / REEL	BREAK LOAD (kg)
32	220	101	17500
36	220	130	22080
38	220	144	24350
40	220	158	26860
44	220	194	31780
48	220	230	37180
50	220	248	40000
56	220	312	49380
60	220	360	56680
64	220	407	64100
68	220	460	72062
72	220	515	80225
76	220	577	88000
80	220	640	99050
82	220	672	102000
84	220	705	106000
88	220	774	112000



12-STRAND POLYSTEEL®

DIAMETER (MM)	REEL SIZE (M)	kg / REEL	BREAK LOAD (kg)
8	220	7	1496
10	220	10	2238
12	220	14.5	3190
14	220	20	4295
16	220	25.5	5401
18	220	33	6930
20	220	40	8360
22	220	49	9790
24	220	57	11539
26	220	68	13552
28	220	78	15290
30	220	90	17600
32	220	101	19250
36	220	130	24288
38	220	144	26785
40	220	158	29546
44	220	194	34958
48	220	230	40898
50	220	248	44000
56	220	312	54318
60	220	360	62384



LEADED POLYSTEEL®

A low cost, general purpose leaded rope manufactured for the fishing industry. A high quality tensile synthetic rope with a high abrasion resistant Polysteel fibres manufactured in 3-Strand construction with a leaded core.

These ropes are specifically for potting for fishermen working in extremely rough sea and rocky sea beds with big currents.

LEADED POLYSTEEL®

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Fishing	Excellent abrasion resistance	Material: Polysteel® with lead in core	10-16mm
Agriculture	Sink	Construction: 3-Strand	220 m reels
Aquaculture			Colours: vary according to size
Pot Rope			
Fishing Nets			

3-STRAND POLYSTEEL®

DIAMETER (MM)	REEL SIZE (M)	kg / REEL
10	220	17
12	220	22
14	220	30.5
16	220	38





FAST ROPE

8-Strand rope for rapid helicopter deployments or extractions

This rope is primarily designed for use in the Special Forces and is available in two options:

- Fast Rope for rapid deployment from helicopters
- Fast Rope with Stealth Fibre® loops interlaced for transportation and evacuation of personnel

The second option allows personnel to clip themselves and/or their equipment onto the rope before being lifted to safety.

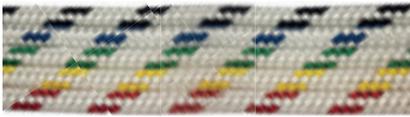
FASTROPE

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Rapid deployment of personnel	Excellent soft grip and liquid absorption	Material: Polyester, Nylon, or Multifilament Polypropylene	32mm and 40mm nominal diameter
Transportation and evacuation of personnel	Strength not affected by water	Construction: 8-Strand or 12-Strand	Various end terminations to order
Special Forces	Does not shrink	Fast ropes can be made to conform to Standard: MIL-F-44422	Various Length as per request
	UV resistant		Available in Black and Olive drab colour
	Abrasion resistant		Other materials available on request
	Soft eye splice on one end		

BREAK LOADS

DIAMETER (MM)	kg/M (APPROX.)	BREAK LOAD (kg)
32	0.6	15800
40	1.0	17000





YACHTMASTER



This rope is easier to splice than a conventional Polyester Yacht Braid, due to its loose construction, meaning it is favoured by riggers and is ideal for genoa sheets and quick splice halyards.

YACHTMASTER

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Leisure marine yacht applications	Easy splicing	Cover: HT Polyester	2 – 24 mm (larger diameters available on request)
Control Lines	High tenacity and abrasion resistance	Core: HT Polyester	200 m reel
General Purpose Ropes	High resistivity to UV and most chemicals	Construction: Braid-on-braid	Various long lengths available on request Available in solid colours and white with colour markers Spliced eyes

BREAK LOADS

DIAMETER (MM)	kg/M (APPROX.)	BREAK LOAD (kg)
6	27	900
8	48	1700
10	67	2350
12	100	3250
14	133	4200
16	143	5600
18	222	7800



DOCK LINE



The combination of nylon core and polyester cover gives this rope excellent stretch recovery and abrasion resistant properties – perfect for mooring.

DOCK LINE

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Mooring lines	Durable	Cover: HT Polyester	10 – 36 mm
Fender lines	Excellent stretch recovery	Core: Nylon	220 m reel
Painter lines	Easy to handle Easy stowing	Construction: Braid-on-braid	Available in solid colours: Black, Navy and White

BREAK LOADS

DIAMETER (MM)	kg/M (APPROX.)	BREAK LOAD (kg)
10	14.3	2550
12	20.9	3500
16	31.9	6420
18	40	8100
25	78	15600



POLYETHYLENE



Polyethylene has an excellent resistance to abrasion, as well as to shock loading. The rope performs well on line haulers and is particularly well suited for small, individual trap fishing applications. The ropes have a smooth, slippery finish and are easy to handle. Polyethylene does not have the same tenacity as Polysteel and when used in a similar application, a larger diameter polyethylene rope should be used.

POLYETHYLENE

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Fishing	Lightweight	Material: Polyethylene	4 – 38 mm
Agriculture	Durable	Construction: 3-Strand hawser lay	220 m reels (other sizes available on request)
Truck tie downs	Floats		8mm – 30m, 50m hanks and 220m coils
General purpose industrial use			10mm – 30m, 50m hanks and 300m coils
			Available in orange (other colours available on request)

3-STRAND BREAK LOADS

DIAMETER (MM)	REEL SIZE (M)	kg / REEL	BREAK LOAD (kg)
6	220	5	400
8	220	8	700
10	220	11.5	1090
12	220	16	1540
14	220	22	2090
16	220	28.5	2800
18	220	36	3500
20	220	44	4300
22	220	53.5	5100
24	220	63.5	6100
26	220	74.4	7000
28	220	86.3	8000
30	220	100	9150
32	220	113	10400
36	220	140	13000
38	220	157	14300
40	220	175	15600

BASKET BRAID

Polyethylene braid
General purpose flat polyethylene braid

BASKET BRAID

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Cargo nets	Lightweight	Material: Polyethylene	6 - 12 mm available in 500m coils
General purpose	Loose construction promotes easy splicing	Construction: 12-Strand	8mm – 30m hank
Rescue line	Durable		8mm – 500m coils
Safety Rope	Floats		Available in solid colours
Tie-downs			

BREAK LOADS

DIAMETER	kg/M	BREAK LOAD (kg)
6	340	77
8	585	45
10	693	35
12	994	20

SKI ROPE

Polyethylene braid
General purpose polyethylene braid

SKI ROPE

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Cargo nets	Lightweight	Material: Polyethylene	6 - 18 mm available in 200m reels
General purpose	Loose construction promotes easy splicing	Construction: 8-Strand	Available in solid colours and white/colour combinations
Towing rope for water sports	Durable		
Rescue line	Floats		
Nets	UV Stabilized		
Safety Rope			
Tie-downs			

BREAK LOADS

DIAMETER	kg/M	BREAK LOAD (kg)
6	340	77
8	585	45
10	693	35
12	994	20

GENERAL PURPOSE CORDS

RESCUE ROPE

Ideal safety rope

An ideal safety rope that is light weight, easy to handle floating line with high visibility. Good to attach to Dan bouy and painter lines for dinghies.

RESCUE ROPE

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Painter Line	Good visibility	Material: Multifilament Polypropylene	8mm, 10 mm
Safety line for Dan buoys	Light weight	Construction: 8-Strand Plait	300 m reels
Floating throw line	Easy to handle		
	Soft hand		
	Floating line		

BREAK LOADS

DIAMETER	REEL SIZE	BREAK LOAD (kg)
6	300m	600
8	300m	900
10	300m	1300

ACCESSORY CORD

Diverse rope offering a multiple range of uses. High tensile polyester cover and core providing low stretch.

ACCESSORY CORD

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Control lines	Rigid construction	Material: Polyester	2-3 mm available 300m reels
Leader lines	Low stretch	Construction: Round polyester braid	4-6 mm available 200m reels
Flag halyards	Abrasion resistant		Available in solid colours
Tie-downs	UV resistant		
Blind cords			
Awning cords			
Messenger lines			
Utility lines			
Net repair			

BREAK LOADS

DIAMETER (MM)	REEL SIZE (M)	kg / REEL	BREAK LOAD (kg)
2	300	270	150
3	300	120	300
4	200	77	480
5	200	55	540
6	200	40	700



MOUSE LINE

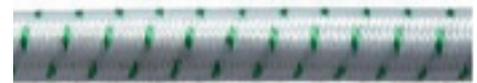


MOUSE LINE

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Mouse lines	Rigid Construction	Material: Multifilament polypropylene	3mm
Securing objects		Construction: Braided	White, Red, Blue, Black, Green, Yellow
Supplied on 2kg spools			



SHOCK CORD



High stretch elastomer covered with a polyester braid giving excellent stretch & recovery properties, and a stretch ratio of 100%!

SHOCK CORD

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Securing	100% stretch	Cover: Polyester	2-10 mm
Tie-downs	Excellent recovery from stretch	Core: Rubber	50m or 100 m reels
Nets		Construction: Braid over parallel core	Available in solid colours and white with colour markers



STEALTH STRETCH



Shock Cord with Stealth Fibre® cover

High stretch elastomer covered with a HMPE braid. This cord is primarily designed for securing objects that need stretch. The cover is made from the Southern Ropes Stealth Fibre®. The Stealth Fibre® makes the cover harder wearing and stronger. The Stealth Shock cord will not absorb water.

STEALTH STRETCH

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Securing objects	100% Stretch	Core: Rubber	4mm, 5 mm, 6mm
Take up lines	Excellent recovery from stretch	Cover: Stealth Fibre®	100 m reels
Nets	Soft hand	Construction: Braid over parallel core	
High tenacity and abrasion resistance			
Will not fade in UV			
High resistivity to UV			

ACCESSORIES

WHIPPING TWINE



WHIPPING TWINE

APPLICATIONS	FEATURES	TECHNICAL	OPTIONS
Whipping ropes	Colourful - can use as rope ID	Cover: Stealth Fibre®	1.5mm
Sewing thread	High tenacity and abrasion resistance	Construction: 12-Strand	100m reel
	High resistivity to UV		Blue, Purple, Grey, Red, Black, Yellow, White

HSGM HOT KNIFE / ROPE CUTTER

Effortlessly cutting synthetic ropes, webbing and cords, cut and seal as you go!

This industrial hot knife rope cutter is a hand operated tool that you plug into the wall. Once hot it will cut and seal the ends on all synthetic cords and ropes. It takes a mere 6-8 seconds to heat up to approx 600°C it will melt the rope and seal the ends. Heat may be controlled by switching tool on and off. This tool will save you both time and money compared to mechanical cutting, your ropes will last longer and the cutting process is quicker.

The Hot knife comes with blade for cutting and sealing rope easily.

2m cord with Euro plug

230V 50Hz 60Watt

Made in Germany by HSGM GmbH



ROPE MEASURER

Ideal for measuring rope at ease for rapid or repetitive measuring. Fast and accurate delivery of a variety of different ropes up to 24mm.

Numbers indicating length can be read from either side of the meter.



SELMA SPLICING FIDS

This set of 5 Selma fids are made from highly polished stainless steel, with the largest fid being made from nickel-plated brass. They are used for splicing double braids, twisted ropes and hollow braids ropes. They come in a protective case complete with detailed illustrated instructions for splicing loop splices, eye splices, back splices & end-to-end splices.





SAFETY

LIFEBUOY CABINET

Lifbuoy Cabinet can store 30 inch and the 24 inch round Lifbuoy Rings with the Encapsulated Floating Line Holder. The Cabinet can be supplied with a removable lid. This protects the lifesaving equipment against vandalism, theft and the elements.

Lifbuoy Cabinet specs:

Order Code: LBC

Material: Polyethylene

Dimensions: 850mm x 850mm x 230mm

Weight: 6.5kg

Lifbuoy Cabinet Lid Specs:

Order Code: LBC-L

Material: Polyethylene

Dimensions: 640mm x 800mm x 70mm

Weight: 3kg

Galvanised Mounting Poles:

1.5m Pole with base plate mounted for installation. Poles come supplied with fixings when purchasing the Southern Ropes lifbuoy cabinet.

Order Code: LBC-P15

Base plate size 200mm x 200mm

Weight: 8.3kg

2m Pole for below surface mounting

Order Code: LBC-P20

Weight: 8.4kg





Encapsulated Floating Line Holder

A tough plastic UV-resistant rope holder that fits neatly into inner diameter of the lifebuoys. It makes for easy deployment of the lifebuoy without the rope twisting and tangling.

LH30 - Encapsulated Floating Line Holder for 30inch LifeBuoy

LH24 - Encapsulated Floating Line Holder for 24inch LifeBuoy



30m 8mm Braided Floating Heaving line

Order code: SKI08OC

A 30m length of 8mm Braided Orange Polyethylene floating safety line c/w plastic hook



Lifebuoys

*75cm (30") – LB30C-4.3kg with SOLAS SHIPS WHEEL reflective tape

*72cm (30") – LB30C-2.5kg with SOLAS SHIPS WHEEL reflective tape

57cm (24") – LB24-1.5kg with Reflective Tapes

*Solas approved

Safety Throw Line Bag

Order code: TL-BAG

- 30 meters 6mm orange braided floating safety line.
- Weighted bag to make it easier to throw accurately.
- Easy to repackaged.
- Overall length of bag 50 cm
- Diameter of bag 10 cm
- Weight of bag is 650grams



How to use instructions are on reverse of the bag: Hold the plastic loop in one hand and throw the bag at your target.

Lifebuoy Cabinet Fixing U-Bolt Set

Order Code: LB-UB

The U-Bolt fixing set is to attach the lifebuoy cabinet to a scaffolding pole or a railing.

2 x M10 U-bolts, 4 x M10 nuts, 4 x spring washers, 4 x washers

Designed to fit approximately 50mm poles.



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