

Marlow®

HIGH PERFORMANCE ROPES FOR
HIGH PERFORMANCE ENVIRONMENTS

ROPE ACCESS & RESCUE



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MARLOW UK

Ropemaker Park, Diplocks Way, Hailsham, East Sussex UK
+44 (0) 1323 444 444
sales@marlowropes.com



MARLOW USA

Suite 228, 10 Cordage Park Circle, Plymouth, Massachusetts MA02360 USA
+1 508 830 0444
salesusa@marlowropes.com



marlowropes.com

OUR MEMBERSHIPS



Certification Number 315
ISO 9001 ISO 14001

Marlow® ROPE ACCESS & RESCUE

INTRODUCTION

At Marlow our legacy is woven into every rope we produce. With over 200 years of ropemaking heritage, we are proud to be a British manufacturer, where our commitment to quality, innovation and technical expertise continues to thrive. From 1807 to our modern-day operations, we have built a reputation for excellence that reaches around the world.

Our Rope Access division exemplifies this legacy, serving and trusted by rope access technicians and safety teams worldwide in sectors such as infrastructure maintenance, rescue operations, construction and offshore energy.

Manufactured in the UK and exported globally, our Rope Access products meet the highest international standards, including CE certification and NFPA compliance.

From our flagship Static LSK ropes—renowned for their low stretch, durability and longevity and compatibility with climbing and descent hardware—to our best heat resistant rope Protec 500, every rope is designed with precision and purpose.

This brochure showcases our complete Rope Access range, reflecting our dedication to safety, performance and innovation.

Whether you're scaling wind turbines, inspecting bridges, or conducting high-rise maintenance, our ropes are engineered to perform in the most demanding environments.



GRAVITAS STATIC ROPE



ENGINEERED FOR:



Rescue



Rope access



Window cleaning
and façade maintenance



Construction



Tree care



Challenge courses

Gravitas is the latest rope innovation in Marlow's 200+ year history, engineered for a variety of rope access operations. This static rope is your go to for ascending, descending, and work positioning. It is a high-strength static rope with one of the lowest elongations on the market: 1.7% at 300lbs (NFPA) and 2% at 50-150kg (CE EN 1891) This rope is by far the best in its class! Even more impressive than the data, is its handling. Gravitas has superior knotability, and not just for tying the knot, it's also easy to untie after it has been loaded. The nylon core keeps it supple and round, while the burly polyester cover gives it excellent resistance to abrasion and UV as well as strength retention when wet.

KEY FEATURES:

- Low elongation • High strength • Superior knotability • Easy to handle • Excellent abrasion resistance
- Excellent UV resistance • Excellent water resistance

TECHNICAL INFORMATION:

CE¹:

DIAMETER (mm)	11
WEIGHT (g/m)	91.1
AVG. BREAKLOAD (kN)	41
AVG. BREAKLOAD WITH SEWN EYE (kN)	37.3
AVG. BREAKLOAD WITH FIG. 8 LOOP (kN)	22.8
ELONGATION AT 50-150kg (%)	2
FALL FACTOR 1 FALLS WITH FIG. 8 LOOP (kN)	7+
PEAK FORCE WITH FIG. 8 LOOP (kN)	5.4

¹ Tested in accordance with CE EN 1891.

NFPA²:

DIAMETER (inch)	7/16
WEIGHT (lbs/100ft)	6.16
MIN. BREAKLOAD (lbs)	7895
ELONGATION AT 1.35KN/300LBF (%)	1.7
ELONGATION AT 2.7KN/600LBF (%)	4.4
ELONGATION AT 4.4KN/1000LBF (%)	7.2

² Tested in accordance with NFPA 2500:2022.

CONSTRUCTION	16-plait cover, multiple twisted cores
MATERIAL	Nylon (polyamide) core, polyester cover
LENGTHS (m/ft)	100m/328ft 200m/656ft, 183m/600ft, 500m/1640ft
TERMINATIONS	Plain end, sewn eye

CERTIFICATIONS:

CE EN 1891 Type A, NFPA 2500:2022 Edition

GRAVITAS STATIC ROPE

COLOURWAYS:



Black



Blue



Red



Green



Orange



White



© Image courtesy of Voodoo Rescue



© Image courtesy of Ronin Safety and Rescue

STEALTHLINE

ENGINEERED FOR:



Saddle hunting



Caving



Alpine rescue

Stealthline is the ultimate rope solution for professionals and adventurers who demand reliability in the most challenging environments.

Designed with a small diameter, Stealthline offers exceptional handling and packability without sacrificing strength. Its supple construction allows for smooth operation and easy knotting, making it ideal for precise manoeuvres in confined or complex terrain. Despite its flexibility, Stealthline maintains a high tensile strength, ensuring dependable support under load.

Durability is at the core of Stealthline's design. Engineered with Technora® for superior abrasion resistance, it stands up to rough surfaces and repeated use, providing long-lasting performance in abrasive environments like rocky caves or rugged alpine landscapes.

Additionally, the rope's fibres are water-resistant, retaining their strength even when wet, an essential feature for wet-weather operations and caving conditions

KEY FEATURES:

- Small diameter • Supple • High strength • Superior abrasion resistance • Low water absorption

TECHNICAL INFORMATION:

DIAMETER (mm)	9
WEIGHT (kg/100m)	6.20
AV. BREAKLOAD (kN)	27.9

CONSTRUCTION	32-plait cover, multiple twisted core
MATERIAL	Technora® & Polyester cover, Polyester core
LENGTHS (m)	200, 1000
TERMINATIONS	Plain end

Technora®

STEALTHLINE

COLOURWAYS:



Camo



TACTICAL ACCESS ROPE

ENGINEERED FOR:



Tactical operations



Hunting



Rescue

Designed for the demands of tactical, defence, hunting, and rescue operations. Its compact diameter belies its incredible strength, making it ideal for high-load applications where space and weight are critical.

Constructed with a polyester and Technora® blended cover over an HMPE core, the rope offers outstanding abrasion resistance and low water absorption, ensuring reliability in wet, rough, and unpredictable conditions. The camo colourway enhances stealth, blending seamlessly into natural surroundings for low-visibility operations.

Whether you're navigating vertical terrain, executing a rescue, or operating in the field, this rope is engineered to perform.

KEY FEATURES:

- Extremely high strength
- Low water absorption
- Excellent abrasion resistance

TECHNICAL INFORMATION:

DIAMETER (mm)	8
WEIGHT (kg/100m)	3.93
AV. BREAKLOAD (kN)	35.7

CONSTRUCTION	32-plait cover, 12-plait core
MATERIAL	Technora® & Polyester cover, HMPE core
LENGTHS (m)	200, 1000
TERMINATIONS	Plain end

Technora 

TACTICAL ACCESS ROPE

COLOURWAYS:



Camo



BLUE OCEAN® STATIC ROPE



ENGINEERED FOR:



Work positioning



Working at height



Abseiling



Rescue

This revolutionary 11 mm static rope is crafted entirely from GRS-certified Blue Ocean® yarn, which is made from recycled plastic bottles. Compatible with all relevant rope management climbing and descending devices, Blue Ocean® Static offers significantly lower elongation compared to conventional access ropes. Blue Ocean® Static has proudly garnered the IRATA City of London Corporation's Working at Height Innovation Award.

KEY FEATURES:

- High strength • Low elongation • Excellent abrasion resistance
- Sustainably manufactured with recycled materials • Recyclable

TECHNICAL INFORMATION:

DIAMETER (mm)	11
WEIGHT (kg/100m)	9.52
AV. BREAKLOAD WITH FIG. 8 LOOP (kN)	22
AV. BREAKLOAD (kN)	36.4

CONSTRUCTION	16-plait cover, multiple twisted core
MATERIAL	Blue Ocean® 100% recycled RPET polyester core and cover
LENGTHS (m)	100, 200
TERMINATIONS	Sewn Eye, Plain End



CERTIFICATIONS:

GRS
CE MR 1081

BLUE OCEAN® STATIC ROPE

SUSTAINABLY SOURCED

COLOURWAYS:



White



© Images courtesy of Avalon Pro



**BLUE OCEAN STATIC - AWARDED
THE WORKING AT HEIGHT INNOVATION
AWARD 2023.**

171 t

of CO2 emissions reduced
due to Marlow committing
to a renewable electrical
supply.

STATIC LSK ROPE



ENGINEERED FOR:



Work positioning



Rescue



Abseiling



Caving

Static LSK is a low-stretch kernmantle rope designed for rope access, work positioning, caving, and abseiling. It is manufactured using high-quality, high-tenacity nylon (polyamide) which has outstanding dynamic properties, significantly outperforming the standard EN 1891 test standards.

Compatible with all relevant diameter rope management, climbing, and descending devices, Static LSK comes in a range of flecked and solid colours and has a visible year of manufacture marker as standard (white ropes only).

KEY FEATURES:

- High strength • Easy to handle • Durable • Visible year marker (white ropes only) • High energy absorption
- Excellent abrasion resistance • Good UV resistance • Good chemical resistance

TECHNICAL INFORMATION:

DIAMETER		WEIGHT		ELONGATION	LENGTH		AVG. BREAKLOAD		AVG. BREAKLOAD WITH FIG. 8 LOOP	
mm	inch	kg/100m	lbs/100ft	%	m	ft	kN	lbs	kN	lbs
9	3/8	5.3	3.56	3.3	50, 100, 200, 600	164, 328, 656, 1968	25.4	5710	13.7	3080
10.5	7/16	6.72	4.52	2	50, 100, 200, 600	164, 328, 656, 1968	33.4	7306	19.5	4383
11	7/16	7.38	4.95	2.4	50, 100, 200, 600	164, 328, 656, 1968	35.3	7935	21.1	4743
12	1/2	9.03	6.07	1.9	50, 100, 200, 600	164, 328, 656, 1968	42.8	9621	24.3	5462

*Static LSK is tested in accordance with CE EN 1891.

CONSTRUCTION	16-plait cover, multiple twisted cores
MATERIAL	Nylon (polyamide) cover, nylon (polyamide) core
LENGTHS (m)	50, 100, 200, 600
TERMINATIONS	Plain end, Sewn Eye

CERTIFICATIONS:

CE EN 1891

STATIC LSK ROPE

OUR BEST SELLER

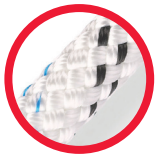
COLOURWAYS: Visible year marker as standard on white ropes only.



9 mm white/
red fleck



10.5 mm white/
red fleck



10.5 mm white/
blue fleck



11 mm white/
red fleck



11 mm white/
black fleck



11 mm black



11 mm red



11 mm orange



11 mm blue



11 mm green



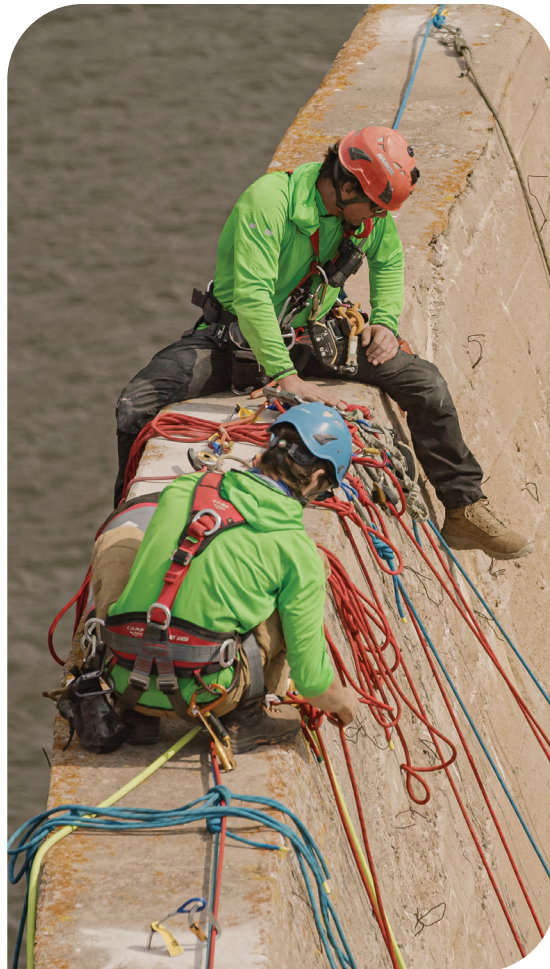
11 mm yellow



11 mm brown



12 mm white



© Image courtesy of Master Point Rope Access Solutions

REFLECTIVE STATIC LSK ROPE

ENGINEERED FOR:



Industrial access



Work positioning



Rescue



Abseiling



Caving

Reflective Static LSK is a low-stretch kernmantle rope designed for rope access, work positioning, caving, and abseiling at night / dark / confined working conditions.

The reflective markers glow in the dark when in contact with light, making it an ideal choice for applications where line visibility is important.

Reflective Static LSK works well with ascenders and descenders and comes with a visible year marker as standard (white ropes only).

KEY FEATURES:

- High energy absorption • Excellent abrasion resistance • Reflective markers • Good chemical resistance
- Good UV resistance • Visible year marker (white ropes only)

TECHNICAL INFORMATION:

DIAMETER (mm)	10.5	11	12
WEIGHT (kg/100m)	6.72	7.38	9.03
AV. BREAKLOAD WITH FIG. 8 LOOP (kN)	19.5	21.1	24.3
AV. BREAKLOAD (kN)	33.4	35.3	42.8

CONSTRUCTION	16-plait cover, multiple twisted cores
MATERIAL	Nylon (polyamide) cover, nylon (polyamide) core
LENGTHS (m)	50, 100, 200, 600
TERMINATIONS	Plain end, Sewn Eye

CERTIFICATIONS:

CE EN 1891 Type A

REFLECTIVE STATIC LSK ROPE

COLOURWAYS:



White



Orange



PH-i STATIC ROPE

ENGINEERED FOR:



Industrial access

PH-i Static is a CE EN 1891 certified static rope with all the same features of the Marlow Static LSK rope. It has a unique chemical exposure marker that will change from yellow to red when exposed to strong acids. Even a 20-second exposure to some acids can weaken a rope by 25%, compromising safety. Longer exposure will increase this strength loss. PH-i Static (Permanent Halochromic Indicating) offers a clearly defined permanent colour change, indicating when a rope has been compromised by strong acid chemicals and should be retired.

Marlow's PH-i indicator is an aid to retirement of the rope and not a definitive indicator for every chemical. There are chemicals that will damage the rope and will not be indicated by the indicator e.g. peroxide & phenol.

Care must always be taken to avoid exposing the rope to any chemical, whether potentially harmful or not. If in any doubt retire the rope.

KEY FEATURES:

- High energy absorption • Excellent abrasion resistance • Chemical exposure markers
- High strength • Durable • Easy to handle

TECHNICAL INFORMATION:

DIAMETER (mm)	10.5	11	12
WEIGHT (kg/100m)	6.72	7.38	9.03
AV. BREAKLOAD WITH FIG. 8 LOOP (kN)	19.5	21.1	24.3
AV. BREAKLOAD (kN)	33.4	35.3	42.8

CONSTRUCTION	16-plait cover, multiple twisted cores
MATERIAL	Nylon (polyamide) cover, nylon (polyamide) core
LENGTHS (m)	50, 100, 200, 600
TERMINATIONS	Plain end, Sewn Eye

CERTIFICATIONS:

CE EN 1891 Type A

PH-i STATIC ROPE

COLOURWAYS:

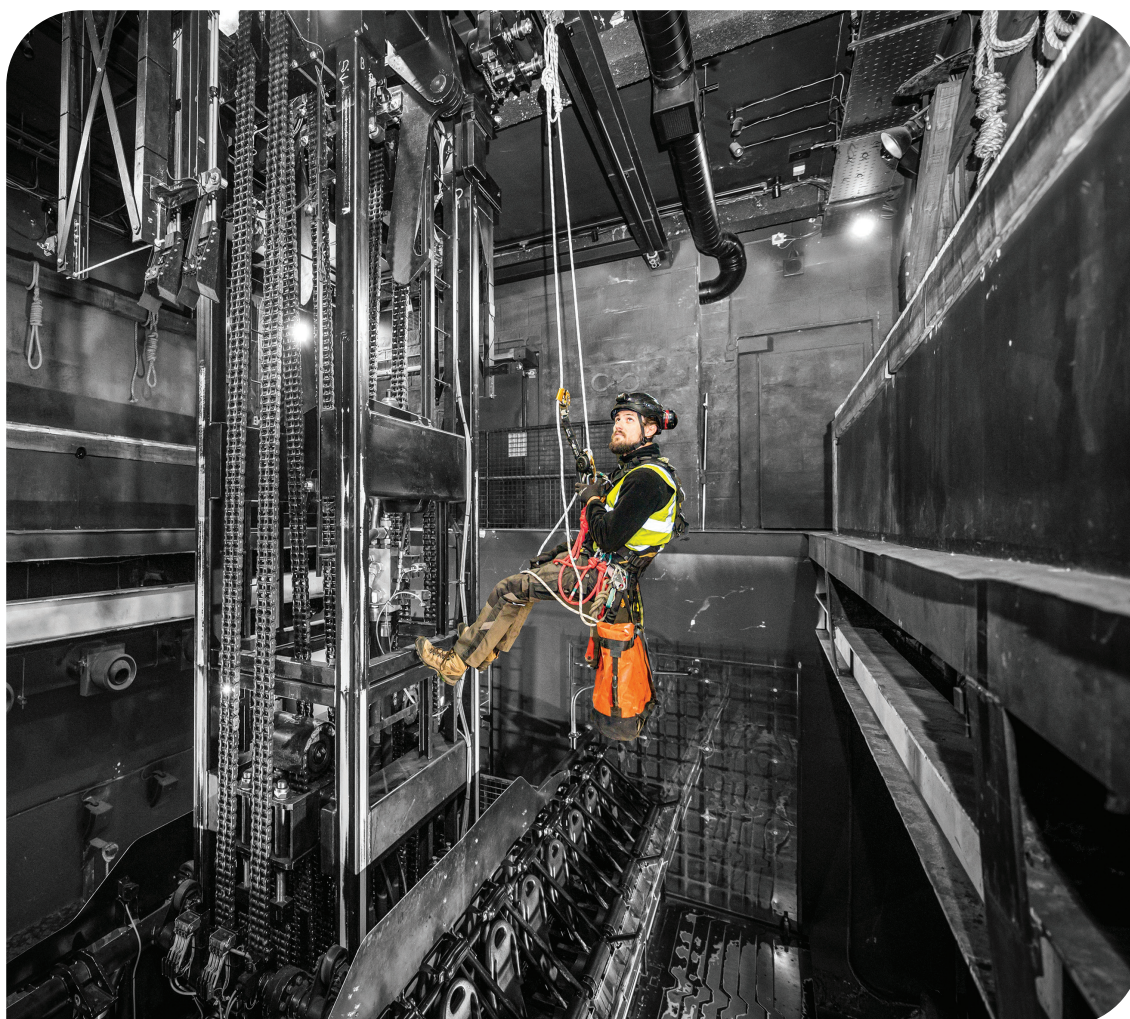


White/
black fleck

Before exposure



After exposure



© Image courtesy of Arco Professional Safety Services

PROSAFE ROPE

ENGINEERED FOR:



Industrial access



Work positioning



Rescue



Abseiling

ProSafe is a semi-static rope that combines strength, durability, and dependable handling for rescue operations and work positioning. Its high-strength nylon core is protected by a hard-wearing 32-plait polyester cover. ProSafe provides the reliability and performances demanded by rope access and rescue professionals, delivering excellent abrasion resistance and low elongation.

KEY FEATURES:

- Low water absorption • Excellent abrasion resistance • High strength
- Excellent friction resistance • Hard-wearing

TECHNICAL INFORMATION:

DIAMETER (mm)	11
WEIGHT (kg/100m)	8.33
AV. BREAKLOAD WITH FIG. 8 LOOP (kN)	21.5
AV. BREAKLOAD (kN)	37.5

CONSTRUCTION	32-plait cover, multiple twisted cores
MATERIAL	Polyester cover, nylon (polyamide) core
LENGTHS (m)	100, 200
TERMINATIONS	Plain end, sewn eye

CERTIFICATIONS:

CE EN 1891 Type A
NFPA T Rated

PROSAFE ROPE

COLOURWAYS:



White



Orange



Blue



Green



Black



© Image courtesy of Arco Professional Safety Services

RONIN HP ROPE

ENGINEERED FOR:



Ronin power ascenders

Approved by Ronin Revolution, Ronin HP is a CE certified EN 1891 Type A 11.5 mm semi-static rope. Available with either a natural or black Technora® cover and inner red cover that gives clear indication of outer cover damage.

Engineered for work with a Ronin Power Ascender.

KEY FEATURES:

- Outer cover damage indicator • Proven longevity • Excellent abrasion resistance • Durable

TECHNICAL INFORMATION:

DIAMETER (mm)	11.5
WEIGHT (kg/100m)	8.96
AV. BREAKLOAD WITH FIG. 8 LOOP (kN)	23.5
AV. BREAKLOAD (kN)	51.3

CONSTRUCTION	32-plait cover, multiple twisted cores
MATERIAL	Technora® cover, nylon (polyamide) core
LENGTHS (m/ft)	100, 200
TERMINATIONS	Plain end, Sewn Eye

Technora

CERTIFICATIONS:

CE EN 1891 Type A

RONIN HP ROPE

COLOURWAYS:



Natural



Black



© Image courtesy of Ronin Revolution

LIFELINES

ENGINEERED FOR:



Roofing



Solar installation



Fall protection

Engineered for safety and simplicity, Lifeline is a complete, ready-to-use solution for working at height in roofing, solar installation, and fall protection environments. Made from our Static LSK rope, it features a pre-sewn eye termination, dual-action snap hook, and integrated chafe guard. This eliminates the need for knots and reduces set-up time.

Available in multiple lengths and pre-packaged for convenience, Lifeline is designed to work seamlessly with leading mobile fall arrest devices such as the KONG Backup and PETZL ASAP.

KEY FEATURES:

- Pre-sewn termination with dual-action snap hook
- Complete, ready-to-use solution
- Designed for use with KONG Backup, PETZL ASAP, and similar devices
- Integrated chafe guard

TECHNICAL INFORMATION:

DIAMETER (mm)	11
WEIGHT (kg/100m)	Available upon request

CONSTRUCTION	16-plait cover, multiple twisted cores
MATERIAL	Nylon (polyamide) cover and nylon (polyamide) core
LENGTHS (m)	9.1, 15.2, 30.5, 45.7
TERMINATIONS	Sewn eye, snap hook, chafe guard

CERTIFICATIONS:

CE EN 1891 Type A

OSHA

LIFELINES

COLOURWAYS:



Black



WORK POSITIONING LANYARD

ENGINEERED FOR:



Work positioning



Industrial use



Climbing

Marlow's Work Positioning Lanyards are CE-certified to EN354 and are compatible with all certified mechanical climbing devices. Made in colour-coded lengths from our 11 mm Static LSK rope.

KEY FEATURES:

- Good abrasion resistance • High strength • High elongation • High energy absorption
- Colour-coded lengths

TECHNICAL INFORMATION:

DIAMETER		WEIGHT		LENGTH		AVG. BREAKLOAD		MIN. BREAKLOAD	
mm	inch	g	lbs	m	ft	kN	lbs	kN	lbs
11	3/8	188	0.414	2	6.56	30.9	6940	22	4940
11	3/8	261	0.575	3	9.84	30.9	6940	22	4940
11	3/8	355	0.783	4	13.12	30.9	6940	22	4940
11	3/8	409	0.902	5	16.4	30.9	6940	22	4940
11	3/8	517	1.14	5 with Snaphook	16.4	30.9	6940	22	4940

CONSTRUCTION	16-plait cover, multiple twisted cores
MATERIAL	Nylon (polyamide) cover and nylon (polyamide core)
LENGTHS (m)	2, 3, 4, 5
TERMINATIONS	Sewn eye each end, snap hook

CERTIFICATIONS:

CE EN 354

WORK POSITIONING LANYARD

COLOURWAYS:



2m blue



3m white



4m orange



5m red



5m yellow



5m blue work positioning lanyard

PROTEC 500 ROPE



ENGINEERED FOR:



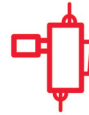
Work positioning



Working at height



Rapid descent



Power ascenders



Rescue and event rigging

Protec500 is a durable and heat-resistant aramid abseil rope. It is an essential for all rope access and rescue professionals who require a rope with outstanding heat-resistant properties.

Protec500 is made with a Technora® cover which has a decomposition temperature of 500°C (932°F). For added safety, the high-visibility polyester markers will melt/fuse if exposed to temperatures over 250°C (482°F), providing visual and tactile evidence of high-temperature exposure. This makes Protec500 ideal for use around hot pipes and in welding operations.

KEY FEATURES:

- Extreme heat resistance • Excellent cut resistance • Excellent abrasion resistance
- High-visibility markers • High strength

TECHNICAL INFORMATION:

DIAMETER (mm)	9	11
WEIGHT (kg/100m)	5.58	8.30
AV. BREAKLOAD WITH FIG. 8 LOOP (kN)	15.9	24.4
AV. BREAKLOAD (kN)	31	49.1

CONSTRUCTION	32-plait cover, multiple twisted cores
MATERIAL	Technora® & polyester cover, nylon (polyamide) core
LENGTHS (m)	100, 200
TERMINATIONS	Plain end, Sewn Eye

Technora®

CERTIFICATIONS:

CE EN 1891

NFPA G Rated - 11 mm only

PROTEC 500 ROPE

OUR BEST HEAT RESISTANT ROPE

COLOURWAYS:



9 mm
black/grey



11 mm
natural/red



11 mm
black/lime



11 mm
black/grey



© Image courtesy of Master Point Rope Access Solutions



DIABLO ROPE



ENGINEERED FOR:



Work positioning Industrial access Work near hot pipes Rescue and abseiling Rapid descent Event rigging

Diablo is a high-quality, heat-resistant rope with excellent abrasion resistance. Designed for military, police, and emergency services, Diablo is essential for rope access and rescue professionals who require a low-stretch kernmantle type rope with added abrasion resistance.

When exposed to direct heat, for example a blow torch or proximity to halogen lamps, Diablo's survival time at temperatures exceeding 300°C is 5 times that of a regular static rope. In instances of heat expose up to 300°C, Diablo continues to maintain load-bearing properties more than 10 kN even after 15 minutes. For a regular static rope, this figure is 45 seconds in comparison for the same load.

Diablo has an improved insulation buffer zone and a cover that is easily inspected for damage. The rope works well with ascenders and descenders.

Available in black for military and police applications and with high-visibility fibres incorporated in the cover for emergency applications.

KEY FEATURES:

- Extreme heat resistance • Excellent abrasion resistance • High strength • Light weight
- Good energy absorption • Excellent cut resistance

TECHNICAL INFORMATION:

DIAMETER (mm)	11
WEIGHT (kg/100m)	8.25
AV. BREAKLOAD WITH FIG. 8 LOOP (kN)	18.3
AV. BREAKLOAD (kN)	35.5

CONSTRUCTION	24-plait cover, multiple twisted cores
MATERIAL	Technora® & nylon (polyamide) cover, nylon (polyamide) core
LENGTHS (m)	50, 61, 100, 200
TERMINATIONS	Plain end, Sewn Eye

Technora

CERTIFICATIONS:

CE EN 1891 Type A

DIABLO ROPE

HIGH ABRASION RESISTANCE

COLOURWAYS:



Black



Black/orange



Natural/orange



© Image courtesy of Master Point Rope Access Solutions

ESCAPE CORD

ENGINEERED FOR:



Working at height



Rescue and emergency



Rapid descent



Wind turbine maintenance

Escape Cord is engineered to work with emergency egress descender devices. The Technora® single-braid construction gives the ideal balance between high strength, excellent friction resistance, and excellent heat resistance to ensure safe operation.

CE certified sewn terminations, stops, and assemblies can be supplied upon request.

KEY FEATURES:

- Extreme heat resistance • Excellent friction resistance • High strength
- Light weight • Compact

TECHNICAL INFORMATION:

DIAMETER (mm)	8
WEIGHT (kg/100m)	3.50
AV. BREAKLOAD (kN)	24.6

CONSTRUCTION	24-plait
MATERIAL	Single-braid Technora®
LENGTHS (m)	Available upon request
TERMINATIONS	Plain end, Sewn Eye

Technora

HEAT RESISTANT

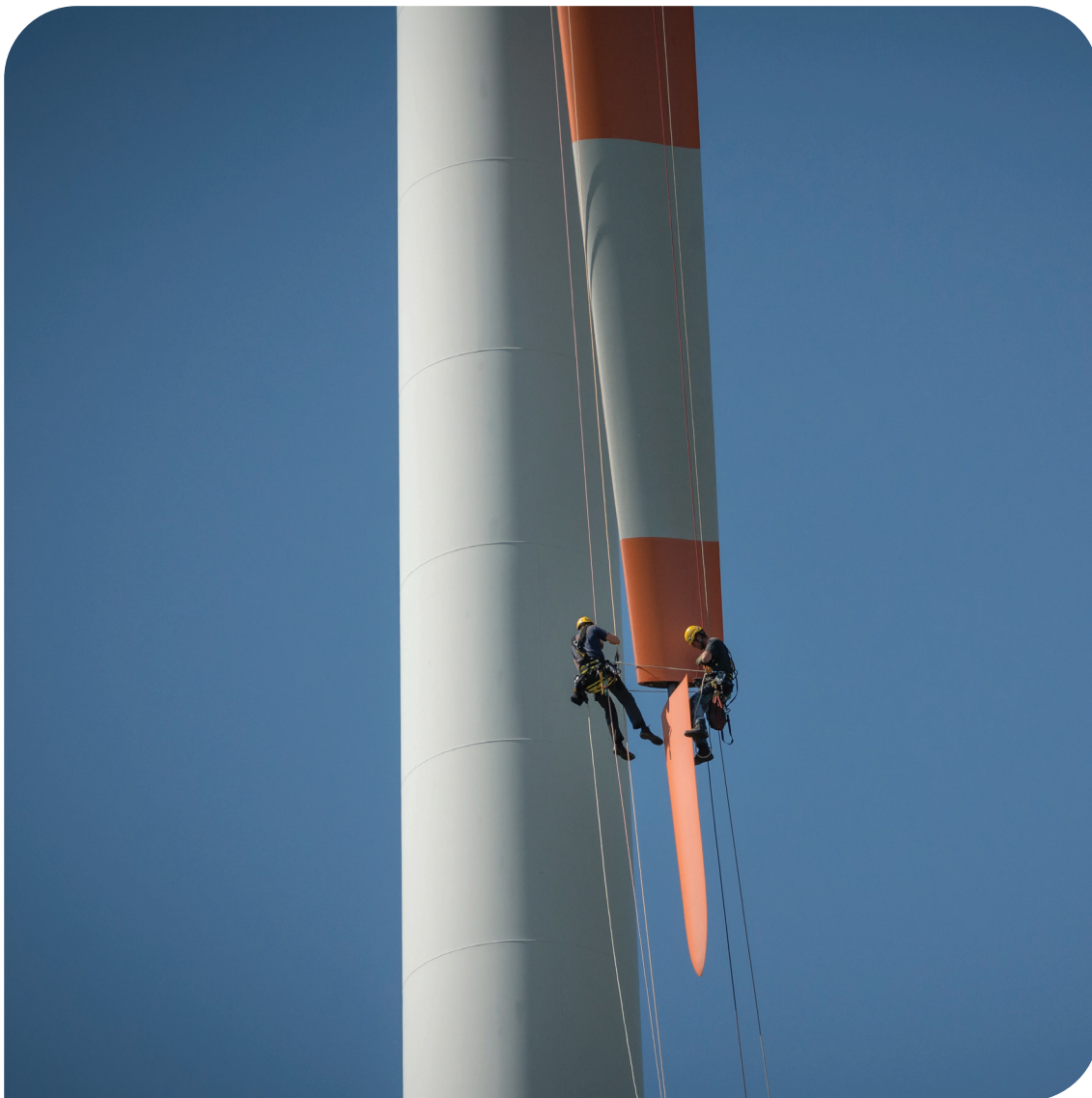
ESCAPE CORD

COLOURWAYS:



Natural

Black available upon request.



POLYESTER ACCESSORY CORD

ENGINEERED FOR:



Safety and rescue



Rigging



General purpose

Marlow's low-stretch polyester accessory cord is ideal for any application where low elongation is required for your application. It is an ideal replacement for nylon static ropes in rigging applications where stretch must be kept to a minimum.

KEY FEATURES:

- Light weight
- Exceptional strength
- Very low elongation

TECHNICAL INFORMATION:

DIAMETER (mm)	9
WEIGHT (kg/100m)	6.19
AV. BREAKLOAD (kN)	25.51

CONSTRUCTION	32-plait cover, 12-strand core
MATERIAL	Polyester cover, polyester core
LENGTHS (m)	100, 200
TERMINATIONS	Plain end

CERTIFICATIONS:

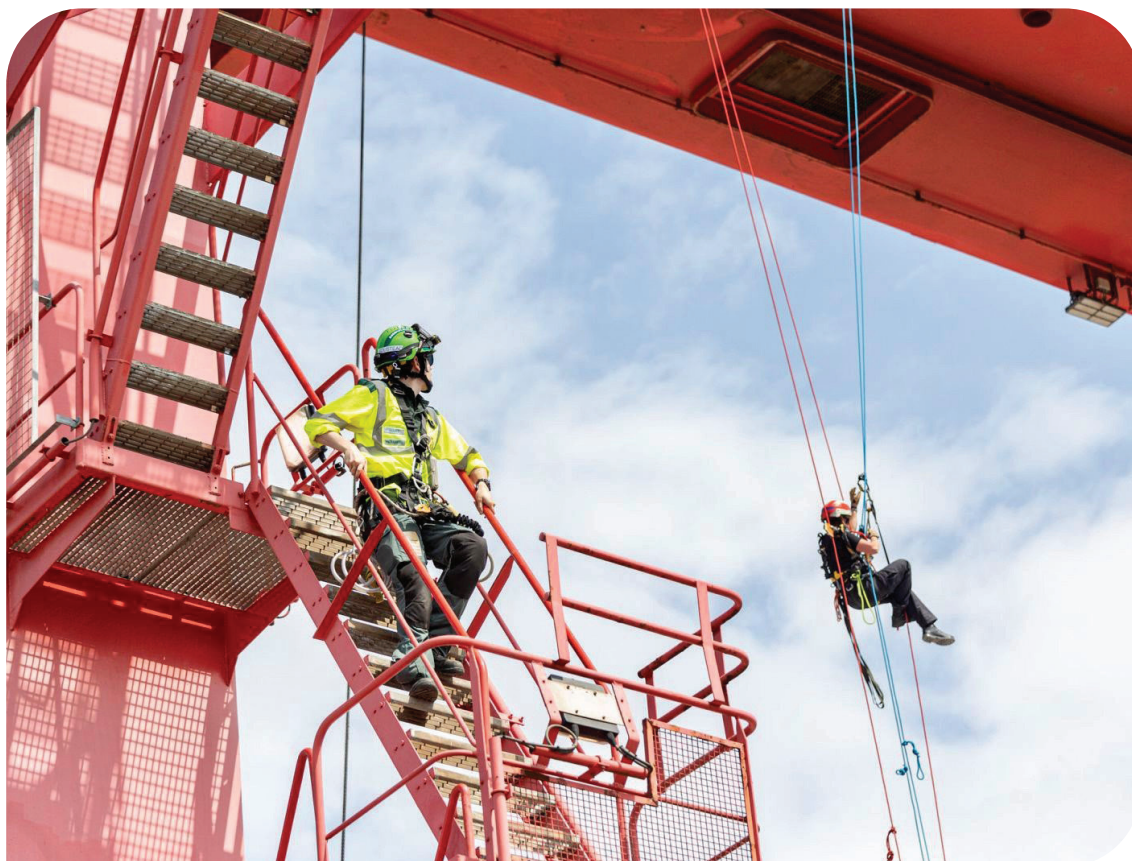
CE EN 564

POLYESTER ACCESSORY CORD

COLOURWAYS:



Orange/black



DYNEEMA® ACCESSORY CORD

ENGINEERED FOR:



Safety & Rescue



Rigging



General Purpose

The Dyneema® Accessory Cord is ideal for technical rigging where exceptional strength and light weight are essential. Very low elongation thanks to its Dyneema® core ensures accurate positioning to maintain efficient rigging.

KEY FEATURES:

- Light weight
- Exceptional strength
- Very low elongation

TECHNICAL INFORMATION:

DIAMETER (mm)	5
WEIGHT (kg/100m)	1.82
AV. BREAKLOAD (kN)	17.9

CONSTRUCTION	32-plait cover, 12-strand core
MATERIAL	Polyester cover, Dyneema® core
LENGTHS (m)	100, 200
TERMINATIONS	Plain end



CERTIFICATIONS:

CE EN 564

DYNEEMA® ACCESSORY CORD

COLOURWAYS:



Red/black



© Image courtesy of Davide Bertorello Show Riggers

TECHNORA® ACCESSORY CORD

ENGINEERED FOR:



Safety and rescue



Rigging



General purpose

Technora® Accessory Cord has a heat-resistant Technora® cover to ensure consistent performance even with high-temperature contact points. The polyester core is optimised to prevent sheath/core movement with polyester heat markers, which will melt/fuse at 250°C (482°F), indicating exposure to high temperatures.

Compatible with modern, light-weight tactical descender devices.

KEY FEATURES:

- Light weight
- Excellent heat resistance
- Polyester heat markers
- Excellent abrasion resistance

TECHNICAL INFORMATION:

DIAMETER (mm)	6
WEIGHT (kg/100m)	2.87
AV. BREAKLOAD (kN)	17.6

CONSTRUCTION	24-plait cover, 12-strand core
MATERIAL	Technora® cover, Polyester core
LENGTHS (m)	100, 200
TERMINATIONS	Plain end,

Technora

CERTIFICATIONS:

CE EN 564

TECHNORA® ACCESSORY CORD

COLOURWAYS:



Grey Natural available upon request.



© Image courtesy of Master Point Rope Access Solutions

NYLON ACCESSORY CORD

ENGINEERED FOR:



General purpose

Strong, light, polyamide (nylon) accessory cord provides ideal performance for a variety of applications.

CE certified (4 mm, 5 mm, 6 mm and 8 mm only).

KEY FEATURES:

- Light weight • Excellent heat resistance • Polyester heat markers • Excellent abrasion resistance

TECHNICAL INFORMATION:

DIAMETER		WEIGHT		LENGTH		AVG. BREAKLOAD	
mm	inch	kg/100m	lbs/100ft	m	ft	kN	lbs
3	1/8	0.56	0.35	100, 200	328, 656	-	-
4	5/32	0.99	0.66	100, 200	328, 656	3.65	820
5	3/16	1.66	1.11	100, 200	328, 656	8.38	1880
6	7/32	2.25	1.51	100, 200	328, 656	11.17	2510
7	1/2	3	-	100, 200	328, 656	-	-
8	5/16	3.76	2.52	100, 200	328, 656	16.09	3620

CONSTRUCTION	16-plait cover, multiple twisted cores
MATERIAL	Nylon (polyamide) cover, nylon (polyamide) core
LENGTHS (m)	100, 200
TERMINATIONS	Plain end

CERTIFICATIONS:

CE EN 564 – 4, 5, 6 & 8 mm only

NYLON ACCESSORY CORD

COLOURWAYS:



Black



Yellow



© Image courtesy of Alta Linea

DYNAMIC CLIMBING ROPE

ENGINEERED FOR:



Climbing



Work positioning

Dynamic climbing rope has a combination of excellent abrasion resistance, good handling, and outstanding dynamic and energy absorption. This makes the rope ideal for climbing as well as safety back up lines when abseiling or work positioning.

KEY FEATURES:

- High elongation • Outstanding energy absorption • Excellent abrasion resistance • Good strength

TECHNICAL INFORMATION:

DIAMETER		WEIGHT		LENGTH		DYNAMIC ELONGATION	STATIC ELONGATION	IMPACT FORCE	
mm	inch	kg/100m	lbs/100ft	m	ft	(%)	(%)	kN	lbs
10.5	7/16	6.7	4.50	50, 100, 200	164, 328, 656	33%	4.6%	7.7	1731
11	7/16	7.7	5.16	50, 100, 200	164, 328, 656	33%	4.4%	7.7	1731

*Dynamic Climbing is tested in accordance with CE EN 892.

CONSTRUCTION	20-plait cover, multiple twisted cores
MATERIAL	Nylon (polyamide) cover, nylon (polyamide) core
LENGTHS (m)	50, 100, 200
TERMINATIONS	Plain end, Sewn Eye

CERTIFICATIONS:

CE EN 892

DYNAMIC CLIMBING ROPES

COLOURWAYS:



10.5 mm red



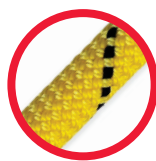
10.5 & 11 mm
black



11 mm orange



11 mm blue



11 mm yellow



© Image courtesy of Arco Professional Safety Services



8 PLAIT MARSTRON (FLOATING RESCUE LINE)

ENGINEERED FOR:



Water rescue

Designed as a floating rescue line for safety purposes. It is very easy to handle with excellent buoyancy and low water absorption, which is especially good for emergency situations at sea or for diving lines.

KEY FEATURES:

- Excellent buoyancy (floats) • Bright colours • Easy to handle • Low water absorption
- Reflective markers available upon request

TECHNICAL INFORMATION:

DIAMETER (mm)	6	8	10
WEIGHT (kg/100m)	1.76	2.70	5.00
MIN BREAKLOAD (kN)	3.9	6.0	11.1

CONSTRUCTION	8-plait single braid
MATERIAL	Polypropylene
LENGTHS (m)	100, 200
TERMINATIONS	Plain end

8 PLAIT MARSTRON (FLOATING RESCUE LINE)

COLOURWAYS:



Orange



Yellow



© Image courtesy of Jakub Stanek

CORDLESS HOT KNIFE

Marlow's cordless hot knife cuts and heat-seals ropes reaching a temperature of 400°C in seconds. It is supplied in a handy carry case, and includes 1x KD-DC100R handle, 1x brush, and 1x battery pack 14.4V/2.0Ah.

Charger sold separately.

Available with a choice of UK, EU, and US plugs.



DRAWSTRING TOTE BAG

This rope bag has been designed for use with abseil and intervention ropes between 9 mm-12 mm in diameter. There is a pull-up top to allow for extra storage for up to 45 metres of rope.

SPECIFICATIONS:

LENGTH (cm)	HEIGHT (cm)	WIDTH (cm)
42.5	32	26.5



BANDANA

Marlow's polyester bandanas are the perfect accessory. Its multi-use function means that it can be used as a bandana, wristband, or face mask.

SPECIFICATIONS:

SIZE (cm)	COLOUR
25 x 50	Grey



BA GUIDE LINE

Snap hook spliced one end, soft eye the other end. Each end is sewn and whipped. Marked at 2.5 m intervals with twin marking tails 150 mm apart. Two tallies marked A&B are also spliced.



SPECIFICATIONS:

DIAMETER (mm)	LENGTH (m)	WEIGHT (g/m)	MIN BREAKLOAD (kN)	CONSTRUCTION
6	60	25	5.5	8 Plait matt polyester (white)
5.5	60	21	7.5	16 Plait (32 Strand) KT3 (Aramid core high visibility cover)

BA PERSONAL LINE

FC hook clamped one end; small hook clamped the other end. D-ring seized on rope 1.2 m from FSC hook end.



SPECIFICATIONS:

DIAMETER (mm)	LENGTH (m)	WEIGHT (g/m)	MIN BREAKLOAD (kN)	CONSTRUCTION
4	6	13	4.2	8 Plait polyester pre-stretched

RESCUE LINE

Available in either 3 strand polyester or 24 plait matt polyester with whipped end and nylon spliced other end.



SPECIFICATIONS:

DIAMETER (mm)	LENGTH (m)	WEIGHT (g/m)	MIN BREAKLOAD (kN)	CONSTRUCTION
16	30, 40, 67, 70	194	46.7	3 Strand polyester
16	30, 40, 67, 70	145	39.7	24 Plait matt polyester

FLAX SAFETY LINE

Stainless thimble spliced one end, whipped other end.



SPECIFICATIONS:

DIAMETER (mm)	LENGTH (m)	WEIGHT (g/m)	MIN BREAKLOAD (kN)	CONSTRUCTION
11 mm	20, 30, 40	50g/m	5.9	Flax covered galvanised steel wire

LOWERING LINE

Available in either 3 strand polyester or 24 plait matt polyester.
Spliced eye on standing leg marked with a turks head, additional 1.6m leg with running eye splice 1.4m from end of standing leg.

SPECIFICATIONS:

DIAMETER (mm)	LENGTH (m)	WEIGHT (g/m)	MIN BREAKLOAD (kN)	CONSTRUCTION
16	36, 40	194	46.7	3 Strand polyester
16	36, 40	145	39.7	24 Plait matt polyester



BELT LINE

Available in either 3 strand polyester pre-stretched or 8 plait matt polyester. Whipped one end, 100 mm eye other end.

SPECIFICATIONS:

DIAMETER (mm)	LENGTH (m)	WEIGHT (g/m)	MIN BREAKLOAD (kN)	CONSTRUCTION
6	3.6	29	8.7	8 Plait matt polyester
6	3.6	31	16.6	3 Strand polyester



GUY LINE

Available in 8 plait matt polyester. Spliced eye on standing leg marked with a turks head, additional 1.6m leg with running eye splice 1.4m from end of standing leg. Also available in hi-vis.

SPECIFICATIONS:

DIAMETER (mm)	LENGTH (m)	WEIGHT (g/m)	MIN BREAKLOAD (kN)	CONSTRUCTION
6	40	25	5.4	8 Plait matt polyester



TECHNICAL INFORMATION

SPECIFIC GRAVITY

Specific gravity is a measure of the density of a material; a Specific Gravity of 1.0 is equivalent to a density of 1g per cm³ (i.e. a Specific Gravity <1 means the material floats). The following table shows the specific gravity of some of the materials commonly used in fibre ropes.

MATERIAL	SPECIFIC GRAVITY
Polypropylene	0.91
HMPE (Dyneema®)	0.98
Fresh Water	1.0
Sea Water	1.03
Nylon	1.14
Polyester	1.38
Vectran®	1.41
Aramids (Technora®, Nomex®, Kevlar®, Twaron®)	1.44
Zylon®	1.54
Steel	7.85

ULTRA VIOLET

All materials are affected by UV radiation to some extent. The following table attempts simply to rank different materials in line with their resistance to UV radiation.

MATERIAL	UV RANKING
Polyester	5
HMPE (Dyneema®)	5
Nylon (UV treated)	4
Aramids (Technora®, Nomex®, Kevlar®, Twaron®)	3
Vectran®	3
Polypropylene	2
Zylon®	1

MELTING POINT

The table below shows the typical melting or decomposition temperature of some common rope making materials.

MATERIAL	MELTING POINT °C
Zylon®	650 (decomposition)
Aramids (Technora®, Nomex®, Kevlar®, Twaron®)	500 (decomposition)
Vectran®	330
Polyester	260
Nylon 6.6	250
Nylon 6	220
Polypropylene	170
HMPE (Dyneema®)	150

CHEMICAL RESISTANCE: This table shows the residual strengths of synthetic fibres after chemical exposure under specific conditions.

CHEMICAL	CONCENTRATION CHEMICAL/WATER (%)	TEMP. (° C)	EXPOSURE (HOURS)	NYLON (%)	POLYESTER (%)	POLYPRO- PYLENE (%)	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 AGENTS								
Hydrogen Peroxide	10	20	100	0	100	90	95	100

Rope strengths are tested according to Marlow's QA25 and 26 quality procedures. Generally these procedures are in line with BS EN ISO 2307, however, a number of other internationally recognised test standards are used including EN 1891, EN 892 and EN 564. Rope mass is determined by weighing a sample of rope whose length has been measured at a reference load. For most ropes this load is calculated as:

Reference Load (kg) = D²/8 Where D is the rope nominal diameter (mm)

WORKING LOADS: Marlow Ropes specify a minimum breaking load (or sometimes an Average Breaking Load). It is the responsibility of the user to determine an appropriate factor of safety and safe working load. This factor of safety must be determined after considering all the risks, the strength reducing factors, and the expected life of the rope. For factors that may affect the strength or expected life of a rope and therefore the determination of the safe working load, please contact +44 (0) 1323 444 444 or email sales@marlowropes.com.

Rope strengths in this catalogue are given in Kilonewtons (kN), which is the correct measure of force or breaking strength. However most people are more familiar with kilograms (kg) so below are conversion factors from one to the other:

kN to kg x 101.972 Kg to kN x 0.00981



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Marlow Ropes Ltd.

Hailsham
East Sussex
United Kingdom
+44 (0) 1323 444 444
sales@marlowropes.com



Marlow Ropes Inc.

Plymouth
Massachusetts
United States
+1 508 830 0444
salesusa@marlowropes.com

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