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MARNING

Using these products can entail risks. Do not use them for any other than the intended purposes. Especially, do not use them for lifting purposes as specified in EU Directive 2006/42/EC, unless the products are clearly identified as suitable for such purposes under relevant standards. Customers shall make sure that persons using the products are familiar with their correct use and the necessary safety precautions. Keep in mind that any of these products can cause damage if incorrectly used, stored, cleaned, or overloaded. Check national safety regulations, industry recommendations, and standards for locally applicable requirements (e.g. choice of safety factors).

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MAXIMUM PERFORMANCE AT EVERY SEND

When it comes to your safety, we leave nothing to chance. Whether it be rock, alpine or gym climbing, MAXIM® Climbing Ropes are your perfect partner!

The demands made on climbing ropes are tremendous. Safety and reliability are paramount, as the life of each climber depends on their rope. Other important factors include, ease of handling, feeding behavior, stretch, knotability and longevity. MAXIM® continues to set the highest standards and strive to deliver the best products for climbers worldwide.

Cutting-edge technology

MAXIM® was founded by the inventor of Goldline, the original climbing rope of the 1960's. We were the first company in America. to produce kernmantle ropes and nylon dynamic climbing ropes. We are pioneers of climbing rope technology and future innovations. The MAXIM® Engineering team has its finger on the pulse, creating ropes with unique technologies that support climbers in many different ways.

The Endura DRY® treatment process extends the life of your rope by keeping water out and improving its resistance to internal abrasion. The Bi-Pattern technology makes the mid-point quickly and easily visible to the climber—a huge gain in safety! Also the innovative PLATINUM® braiding technology and the Warning Track tracer system add an unsurpassed level of safety. By connecting the core and the cover of the PLATINUM® rope permanently, the rope gets more compact, abrasion resistant and will never slip when cut. Ropes with the Warning Track tracer system indicate the midpoint with a yellow tracer and warn the climber of the end of the rope by an increasing number of red tracers.

Strong partnerships

MAXIM® ropes excel due to their longevity and excellent performance. That is why many professional climbers and expedition teams rely on our ropes. Through our corporate sponsorships and outstand-

ing climbing team, we stay actively involved in the climbing community and establish partnerships that are meant to last.

Rock climbing legend Randy Leavitt leads a team of today's top athletes in the sport including; Alex Honnold, Chris Sharma, Jonathan Siegrist, Paige Claassen, Pamela Shanti-Pack, Will Stanhope, the Hörst family, David Allfrey, Greg Kerzhner and many others. By sponsoring and aligning ourselves with the best of the best we are in the thick of the climbing scene, not just on its edge. Our product development is born from their experience, testing and ideas.

In addition, MAXIM® strives to raise the overall climbing lifestyle by supporting groups whose missions are to further the sport of recreational climbing, increase awareness of climbing safety and to improve access to climbing areas. Among these are our long standing partnerships with the Access Fund, the American Mountain Guides Association, the Climbing Wall Association and the Outdoor Industry Association.

A product for every need

As a brand of TEUFELBERGER, a 225 year old family owned rope manufacturer, the MAXIM® product portfolio is not only limited to dynamic ropes. Climbers will also find static ropes, accessory cords, shock cords and slings. Our comprehensive product portfolio paired with excellent performance and safety make MAXIM® your perfect partner in climbing.

MAXIM®—With you when you clip, with you when you whip.



SNAPSHOT OF PRODUCTS

	Ø	Length*	Falls		Weight	:	Maximum impact	Elongation	
	mm	meter	min.	avg.	g/m	lbs/100	kN	dynamic (%)	static (%)
Airliner	9.1	60, 70, 80	5	5	52.1	3.50	9.8	28.0	6.4
Pinnacle	9.4	60, 70, 80, 90, 200	6	7	55.4	3.72	8.2	30.8	7.4
	9.5	35, 60, 70, 80	5	7	61.0	4.10	10.3	26.0	5.0
Glider	9.9	35, 60, 70, 80, 200	5	7	65.5	4.4	9.5	29.0	5.0
	10.2	35, 60, 70, 80, 200	7	9	67.0	4.5	9.8	29.0	4.5
	10.5	35, 60, 70, 80, 200	10	12	74.4	5.0	9.4	29.0	4.8
Apex	9.5	35, 60, 70, 80	5	7	61.0	4.10	10.4	26.0	5.0
	9.9	35, 60, 80, 80, 200	5	7	65.5	4.4	9.5	29.0	5.0
	10.2	35, 60, 70, 200	7	9	67.0	4.5	9.8	29.0	4.5
	10.5	35, 60, 70, 80, 200	10	12	74.4	5.0	9.4	29.0	4.8
	11.0	35, 60, 70, 80, 200	13	15	81.8	5.5	9.6	29.0	4.8
Equinox	9.9	40, 60, 200	5	7	65.5	4.4	9.5	29.0	5.0
	10.2	60, 200	7	9	67.0	4.5	9.8	29.0	4.5
Equinox Elite	9.7	50, 60, 70, 80, 90, 200	7	12	61.2	4.10	9.3	34.0	9.0
Jnity	8.0	30, 50, 60, 70, 200	7	8	46.9	3.15	6.0	29.0	9.6
	9.0	30, 50, 60, 70, 200	10	12	50.6	3.40	6.3	29.0	7.0
Gym Rat	10.0	40, 200	5	7	65.5	4.40	9.5	29.0	5.0
Chalk Line	9.7	Per foot or 200m spools	5	6	62.0	4.17	9.1	29.0	8.5
	10.2	Per foot or 200m spools	5	7	67.0	4.5	9.8	29.0	4.5
	10.8	Per foot or 200m spools	5	7	72.9	4.90	10.6	28.1	9.9

 $[\]ensuremath{^{\star}}\xspace The lengths are depending on certain diameters and colors.$

- All of our products begin with the highest quality of raw materials.
- We are rope specialists and only manufacture rope.
- Our products are rigorously inspected for quality compliance.

Unless stated differently, the numbers published for dynamic climbing ropes are reported from our third party test certificates according to EN892:2016. Stated breaking stength for static ropes and accessories shows the load under which the rope/accessories would break, tested in the laboratory. Performance in actual conditions may vary.

Precautions have been taken to assure accuracy of the information in this catalog. Typographic or pictorial errors that are brought to our attention will be corrected in subsequent issues.

TEUFELBERGER reserves the right to make product changes from time to time without prior notification which may change the dimensions shown. We therefore recommend at all information be checked

and verified before using for customer projects or product development and specification. The designs and dimensions

of the products listed in this catalog were correct at the date of publication and are subject to change without notice.

Photo credits: Taylor Shaffer, Merlin Essl, Jonathan Siegrist, Cameron Hörst, Alice Hafer, JP Melville, John Evans, David Allfrey

Climbers: Jordan Cannon, Mich Kemeter, Jonathan Siegrist, Cameron Hörst, Alice Hafer, Randy Leavitt, Axel Manz, Pamela Shanti Pack, David Allfrey

AIRLINER

Airliner is ultra-light, ultra-skinny and perfect for quick ascents on long pitches. But don't let Airliner's small size and light weight fool you. It does not sacrifice an ounce of performance. The Airliner has the same durability that you have come to expect from MAXIM® Climbing Ropes. All Airliner ropes come standard with the Endura 2x-DRY treatment. Airliner is triple-certified as a single, twin and half rope.



9.1 mm



Afterburner 2x-DRY



Jet Stream 2x-DRY





Dark Star 2x-DRY | Bi-Pattern





Torch 2x DRY | Bi-Pattern

Features

- Ultra-light
- Ultra-skinny
- Durable
- Triple-certified as a single, half and twin rope
- Endura 2x-DRY treated

Specifications

Core: Nylon Cover: Nylon

Standard: EN 892, UIAA 101

①Single rope ② Half rope

Twin rope

ø v	Weight		Sheath	Elongation		Max. Impact Number of Falls		f Falls
			slippage			Force		
mm g	g/m lbs	s/100	mm	dynamic	static	kN	minimum	average
9.1 5	52.1 3.5	50	0	28.0 %	6.4 %	9.8	5	5

Certain sizes and colors are also available in various lengths.

I've climbed on most of the leading skinny ropes and none can withstand half of the beating that the Airliner can. It is overall without question the very best cord I have used. I really, really love it.





9.4 mm



Blue Ocean 2x-DRY

9.5 mm



Slick 2x-DRY





Yellow Jacket 2x DRY | Bi-Pattern



Cobalt STD-DRY



Launch STD-DRY

PINNACLE

Pinnacle is a lightweight rope designed to meet the needs of today's sport climber. It's light enough for redpointing, but still has the legendary durability for which MAXIM® is known. Pinnacle is also an option for the trad climber who wants to climb longer pitches without adding weight or sacrificing durability and abrasion resistance. All Pinnacle ropes have an Endura DRY-treated core and some versions features a 2x-DRY cover, making Pinnacle a good choice for a lightweight single ice rope as well. The Pinnacle series is the right choice your next challenge!



Features

- Lightweight
- Durable
- Abrasion resistant
- Twill Pattern Technology TPT

Specifications

Core: Nylon Cover: Nylon

Standard: EN 892, UIAA 101

(1) Single rope

Ø	Weight	ŧ	Sheath slippage	Elongation		Max. Impact Force	Number o	f Falls
mm	g/m	lbs/100	mm	dynamic	static	kN	minimum	average
9.4	55.4	3.72	0	30.8 %	7.4 %	8.2	6	7
9.5	61.0	4.10	0	26.0 %	5.0 %	10.3	5	7

Certain sizes and colors are also available in various lengths.

MAXIM's Pinnacle Yellow Jacket is my favorite all-around rope. Skinny and lightweight for hard redpoints, yet durable and with a great handle, it's perfect for projecting and trad climbing as well.





GLIDER

Glider ropes feature our Twill Pattern Technology (TPT), a unique twill sheath design. This unique braiding technology results in a smoother cover that reduces drag. This gives the feeling of lighter weight as you pull the rope through protection on sport routes. What really separates the Glider from other climbing ropes is the supple feel, easy clips, and superior hand.



Features

- Twill Pattern Technology (TPT)
- Smoother cover that glides through protection
- Supple feel
- Easy clips

Specifications

Core: Nylon Cover: Nylon

Standard: EN 892, UIAA 101

1 Single rope

Ø	Weight	1	Sheath	Elongation		Max. Impact	Number of	Falls
			slippage			Force		
mm	g/m	lbs/100	mm	dynamic	static	kN	minimum	average
9.9	65.5	4.40	0	29.0 %	5.0 %	9.5	5	7
10.2	67.0	4.50	0	29.0 %	4.5 %	9.8	7	9
10.5	74.4	5.00	0	29.0 %	4.8 %	9.4	10	12

Certain sizes and colors are also available in various lengths.





Moss 2x-DRY



Peak 2x-DRY



Send Your Face 2x-DRY



Pink 2x-DRY





Smoke 2x DRY | Bi-Pattern



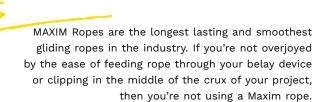


Venus STD-DRY | Bi-Pattern

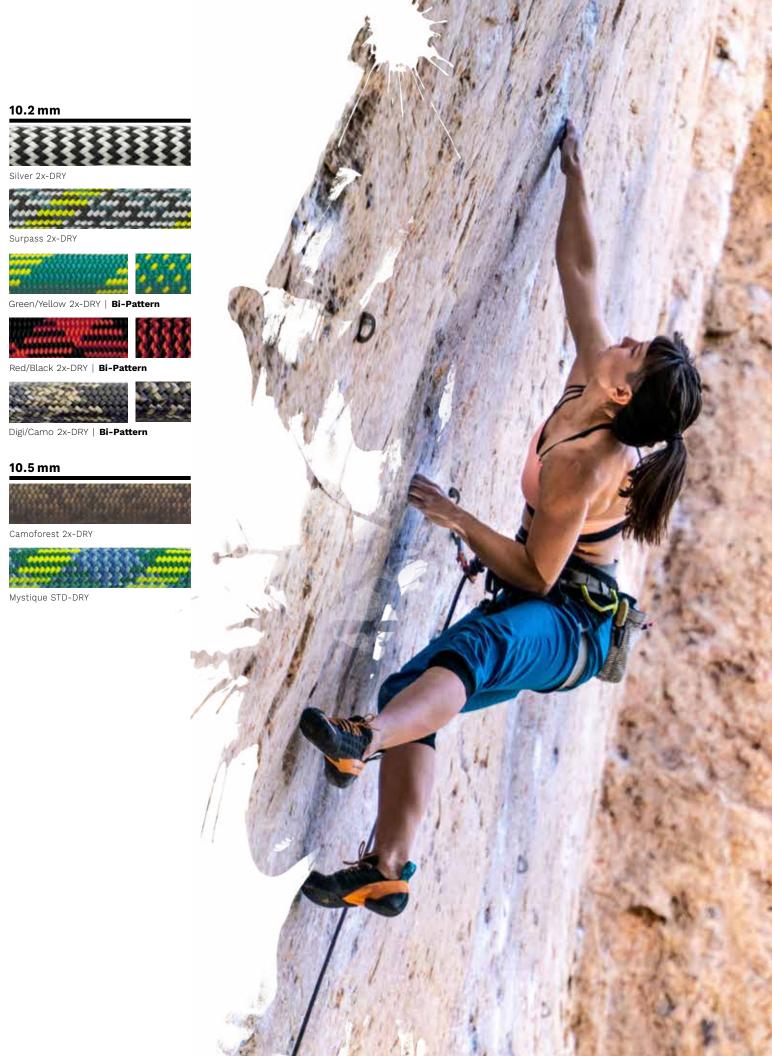




Desert Sun STD-DRY | Bi-Pattern







APEX

Apex is the workhorse of the MAXIM® product line. Designed for big wall and trad climbing or for working projects and developing routes, Apex makes an excellent rope for challenge courses and fall protection for safety personnel. It consistently takes a beating but still delivers reliable clips. All Apex ropes feature an Endura DRY core. Selected models are 2x-DRY, which adds an Endura DRY cover for the ultimate dry protection.



Features

- All Apex ropes feature Endura DRY on the core
- Select models have 2x-DRY on the
- Designed for big wall and trad climbing
- Great for developing routes

Specifications

Core: Nylon Cover: Nylon

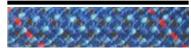
Standard: EN 892, UIAA 101

(1) Single rope

Ø	Weight	t	Sheath	Elongation		Max. Impact	Number o	f Falls
			slippage			Force		
mm	g/m	lbs/100	mm	dynamic	static	kN	minimum	average
9.5	61.0	4.10	0	26.0 %	5.0 %	10.3	5	7
9.9	65.5	4.40	0	29.0 %	5.0 %	9.5	5	7
10.2	67.0	4.50	0	29.0 %	4.5 %	9.8	7	9
10.5	74.4	5.00	0	29.0 %	4.8 %	9.4	10	12
11.0	81.8	5.50	0	29.0 %	4.8 %	9.6	13	15

Certain sizes and colors are also available in various lengths.

9.5 mm



Blue STD-DRY

9.9 mm



Yellow 2x-DRY



OD Green 2x-DRY





Cranberry STD-DRY



Ivy STD-DRY



Terra Cotta STD-DRY

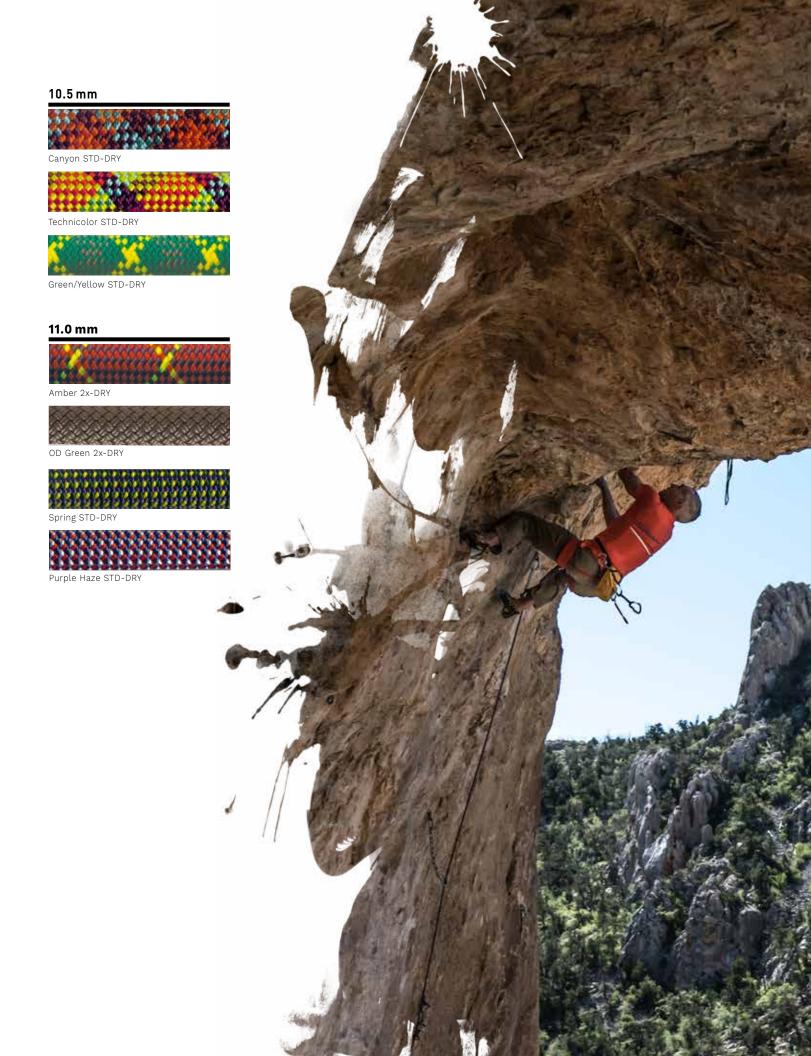
10.2 mm



Autumn STD-DRY







EQUINOX

Equinox is the best value in a high quality rope. By incorporating more white yarns in the sheath construction, which reduces expensive yarn dying processes, we can offer a money-saving alternative with high performance. The durable Equinox features an Endura DRY treated core and is made to the same high standards as our Apex series. With its excellent knotability, ease of clipping, and its slim 9.9mm and 10.2mm, the versatile Equinox is ideal for sport climbing or multi-pitch routes.



9.9 mm

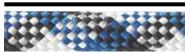


Red/White STD-DRY



Yellow/White STD-DRY

10.2 mm



Blue/White STD-DRY



Digi Purple STD-DRY

Features

- Great value
- Endura DRY treated core
- Excellent knotability
- Ease of clipping
- Designed for long life when top roping, sport or trad climbing

Specifications

Core: Nylon Cover: Nylon

Standard: EN 892, UIAA 101

(1) Single rope

Ø	Weigh	ŧ	Sheath	Elongation		Max. Impact	Number o	f Falls
			slippage			Force		
mm	g/m	lbs/100	mm	dynamic	static	kN	minimum	average
9.9	65.5	4.40	0	29.0 %	5.0 %	9.5	5	7
10.2	67	4.50	0	29.0 %	4.5 %	9.8	7	9

Certain sizes and colors are also available in various lengths.

9.7 mm



Red Velvet STD-DRY



Sunrise STD-DRY

EQUINOX ELITE

Equinox Elite is a versatile single rope that opens countless options for both ambitious climbers and beginners. The unique smooth TPT pattern on the sheath and a high proportion of sheath ensures resilience in open areas and durability. The rope features a dry treated core (STD-DRY) to reduce water absorption. The new MAXIM® Equinox Elite makes climbing a true joy!



Features

- Twill Pattern Technology (TPT)
- Robust and durable
- STD-DRY treatment
- Versatile rope for all levels

Specifications

Core: Nylon Cover: Nylon

Standard: EN 892, UIAA 101

1 Single rope

Ø	Weight Sheath slippage			Elongation		Max. Impact Force	Number of Falls	
mm	g/m	lbs/100	mm	dynamic	static	kN	minimum	average
9.7	61.2	4.10	0	34.0 %	9.0 %	9.3	7	12

Certain sizes and colors are also available in various lengths.

UNITY

Unity is a multi-purpose half rope that is perfect for the weight-conscious alpinist. Used as a half rope, the Unity is designed to be alternately clipped to protection and constructed to reduce drag and increase fall protection over sharp edges. The Unity provides outstanding performance on routes with multiple traverses. Unity is also light enough and tough enough to be used as a glacier rope on the world's toughest mountains. Unity is available in 8mm Endura DRY and 2x-DRY or 9mm in 2x-DRY. Select models feature our exclusive TPT sheath.



Specifications

— Multi-purpose half rope

Features

— Constructed to reduce drag

Increases fall protection over sharp edges

 Light and tough enough to be used as a glacier rope Core: Nylon Cover: Nylon

Standard: EN 892, UIAA 101

Half rope
Twin rope

Ø	Weight	t	Sheath slippage	J		Max. Impact Force	Number of Falls	
mm	g/m	lbs/100	mm	dynamic	static	kN	minimum	average
8.0	46.9	3.15	0	29.0 %	9.6 %	6.0	7	8
9.0	50.6	3.40	0	29.0 %	7.0 %	6.3	10	12

9mm Unity is also available in OD Green and Tan per military specifications AA-59835-Type-II.

8.0 mm



Burgundy 2x-DRY



Teal 2x-DRY

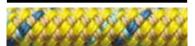


Fire STD-DRY



Ocean STD-DRY

9.0 mm



Yellow 2x-DR



Blue 2x-DRY

10 mm



Red STD DRY



Blue STD DRY

GYM RAT

The Gym Rat is the perfect companion for those of you who live in the climbing gym and prefer, or are required, to bring your own lead line. They are designed for the hard living and abuse that your all day every day cord needs to withstand yet they still remain supple and round. They feature our proprietary Endura DRY treatment on the core and are CE certified to EN892 as a single rope.



Features

- Robust and long lasting
- Perfect for indoor lead climbing
- Endura DRY treatment on the core

Specifications

Core: Nylon Cover: Nylon

Standard: EN 892, UIAA 101

(1) Single rope

Ø	Weight	t	Sheath	Elongation		Max. Impact	Number o	f Falls
			slippage			Force		
mm	g/m	lbs/100	mm	dynamic	static	kN	minimum	average
10.0	65.5	4.40	0	29.0 %	5.0 %	9.5	5	7

Certain sizes and colors are also available in various lengths.

CHALK LINE

Chalk Line was specifically developed for the punishment gyms inflict on rope. Whether you have a small gym or big wall, the Chalk Line can take the constant falls and belays. The Str8 Jacket construction allows the Chalk Line to hold its shape and keeps the cover and core in balance which virtually eliminates sheath slippage. This will reduce flat spots and help maintain the performance of the overall rope. The Chalk Line will provide a safe and easy belay through a variety of devices while still maintaining its shape. Gym owners who use Chalk Line love their longevity which saves them money by not having to replace them as often.



Features

- Maintains shape
- Reduces sheath slippage
- No flat spots
- No more baggy rope

Specifications

Core: Nylon Cover: Nylon

Standard: EN 892, UIAA 101

(1) Single rope

Ø	Weight Sheath E slippage		Elongation		Max. Impact Force	Number of Falls		
mm	g/m	lbs/100	mm	dynamic	static	kN	minimum	average
9.7	62	4.17	0	29.0 %	8.5 %	9.1	5	6
10.2	67.0	4.50	0	29.0 %	4.5 %	9.8	5	7
10.8	72.9	4.90	0	28.1 %	9.9 %	10.6	5	7

Certain sizes and colors are also available in various lengths.

9.7 mm



Blue/Gray STD-DRY



Orange/Gray STD-DRY

10.2 mm



Blue STD-DRY



Green/Yellow/Purple STD-DRY



Empire STD-DRY

10.2 mm Soft



Red/Black/Yellow STD-DRY



Black/White/Gray STD-DRY

10.8 mm



Gray STD-DRY



Purple/Black STD-DRY



KM III

KM III is an exceptional static rope for rappelling, caving, rescue, top roping, fixed rope applications, hauling, and life safety applications. The unique polyester sheath differentiates KM III from other static ropes. The polyester sheath is balanced with a nylon core to limit rotation, bouncing, and stretch. KM III is NFPA and CE approved, and all come with an NFPA certification tag and CE labels. Thirty-two strands provide the correct sheath for the unique demands of static rope and the optimum sheath/core ratio. This allows for an incredibly smooth sheath, higher tensile strengths, and superior handling characteristics.

Features

- 32-strand sheath for optimum sheath / core ratio
- Polyester over nylon with a balanced torque free construction
- Excellent handling and knot holding characteristics
- High abrasion resistance
- Excellent UV protection

Specifications

Core: Nylon Cover: Polyester Standard:

EN 1891 B: (8.0mm, 9.5mm)

EN 1891 A: (9.5, 10, 10.5, 11mm, 13mm) NFPA 1983:2017: (5/16, 3/8, 7/16, 1/2, 5/8,

10mm, 10.5mm)

CE Test Results per EN 1891

Ø		Weight		Shrinkage	Elongation	Min. Brea	king Strength
						Free length	
mm	inch	g/m	lbs/100	%	%	daN	lbf
8.0	5/16	59.0	4.00	< 5	3.0	2,275	5,120
9.5	3/8	65.0	4.40	< 5	1.8	2,790	6,275
10.0	N/A	65.0	4.40	< 5	1.7	2,790	6,275
10.5	N/A	84.0	5.65	< 5	1.6	3,335	7,500
11.0	7/16	91.0	6.12	< 5	1.8	3,765	8,465
13.0	1/2	117.0	7.90	< 5	1.8	5,015	11,275
14.5	5/8	152.0	10.20	< 5	1.8	5,815	13,075

Ø		Min. Breaking Stren	igth	Cover
		Sewn		
mm	inch	daN	lbf	%
8.0	5/16	1,895	4,260	52
9.5	3/8	1,895	4,260	47
10.0	N/A	N/A	N/A	52
10.5	N/A	N/A	N/A	48
11.0	7/16	3,085	6,935	45
13.0	1/2	3,680	8,265	47
14.5	5/8	3,925	8,830	47

NFPA Test Results (Elongation Results Per Underwriter's Lab (UL)

Ø		Elongation			Approved Class
mm	inch	at 1.35 kN (%)	at 2.7 kN (%)	at 4.4 kN (%)	
8.0	5/16	4.3	7.6	11.3	Escape rope
9.5	3/8	3.5	6.2	9.2	Technical use
10.0	N/A	1.8	4.2	6.7	Technical use
10.5	N/A	3.9	7.0	9.7	Technical use
11.0	7⁄16	2.4	4.2	6.3	Technical use
13.0	1/2	2.8	4.5	7.0	General use
14.5	5/8	2.5	3.4	5.2	General use

8 mm



White



Black

All diameters



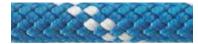
Orange



Red



Safety Green



Blue



Black



OD Green



White/ Blue



Yellow

All diameters



Black/Yellow

9.5 mm



Black

11 mm



Orange

KM III MAX

KM III Max has a well balanced, low rotation, unique twill design. It is a perfect static rope for work placement and smooth descents. Our KM III Max features our TPT construction that results in a smoother cover reducing drag and creating a more fine control on descents. The smooth, low profile sheath allows for better braking, faster ascending, and exceptional abrasion resistance. Originally designed for work placement applications, KM III Max is an excellent choice for heavy exposure fixed lines, big wall hauling, caving, and a variety of rescue applications.

Features

- TPT construction
- Exceptional abrasion resistance

Specifications

Core: Nylon Cover: Polyester Standard:

EN 1891 B: (9.5mm) EN 1891 A: (11, 13mm) NFPA 1983:2017: (1/2 inch)

CE Test Results per EN 1891

Ø		Weight		Shrinkage	Elongation	Min. Brea Free leng	aking Strength
mm inc	h	g/m	lbs/100	%	%	daN	lbf
9.5	3/8	65.0	4.40	< 5	1.8	2,790	6,275
11.0	7/16	91.0	6.12	< 5	1.8	3,765	8,465
13.0	1/2	117.0	7.80	< 5	1.8	5,015	11,275

Not CE certified, only NFPA

Ø		Min. Breaking Str	ength	Cover
		Sewn		
mm	inch	daN	lbf	%
9.5	3/8	1,895	4,260	47
11.0	7/16	3,085	6,935	45
13.0	1/2	3,680	8,265	47

NFPA Test Results

Ø		Elongation			Approved Class
mm	inch	at 1.35 kN (%)	at 2.7 kN (%)	at 4.4 kN (%)	
9.5	3/8	3.5	6.2	9.2	Technical use
11.0	7/16	2.4	4.2	6.3	Technical use
13.0	1/2	2.8	4.5	7.0	General use

PLATINUM® PROTECT PES/PA

Platinum® Protect PES/PA has a polyester cover which has made it very successful in all facets of working at height. Platinum® Protect PES/PA is a must-have for every industrial climber because of its novel design and low elongation. Platinum® technology creates a permanent mechanical connection between the core and cover of the rope, enhancing it's safety without sacrificing the hand.

Features

- Extremely low elongation
- Good resistance to acids
- Excellent UV stability
- Stays flexible it wet conditions

Specifications

Core: Nylon Cover: Polyester Standard: EN 1891 A

10.5 mm



Green/Gray/White



Black/Gray

CE Test Results per EN 1891

Ø		Weig	ght	Shrinkage	Elongation	Min. B	reaking	Strengt	th			Cover
						Free ler	igth	Sewn		With fig.	8 knot	
mm	inch	g/m	bs/100	%	%	daN	lbf	daN	lbf	daN	lbf	%
10.5	13/32	78.0	5.20	2.0	2.0	2,800	6,290	2,200	4,945	1,500	3,370	50.5

PLATINUM® PROTECT XG PES/PA

PLATINUM® Protect XG also features the cover-core-connection, which prevents bunching of the cover as the rope runs into the device. However, in this model, the binding yarns change direction at each connecting point. This makes the rope steadier in access and features reduced kinking especially in case of long distance abseiling.

Features

- Low elongation
- Reduced kinking in case of long absailing distances
- Excellent UV resistance

Specifications

Core: Nylon Cover: Polyester Standard: EN 1891 A

CE Test Results per EN 1891

Ø		Weig	ght	Shrinkage	Elongation	Min. B	reaking	Strengt	h	Cover
						Free ler	ngth	With fig.	8 knot	
mm	inch	g/m	bs/100	%	%	daN	lbf	daN	lbf	%
11	7/16	86.0	5.78	2.0	2.0	3,400	7,640	1,700	3,820	47.0

11 mm



White/Red



Red/White

All diameters



White with Red

MULTILINE II

Multiline II is a 3-strand composite rope, constructed by twisting three strands of a blend of spun and filament polyester around cores of fibrillated polyolefin. The polyolefin keeps the strands firm and round without adding weight, which improves abrasion resistance and handling. The spun polyester gives Multiline II its characteristic fuzzy feel and makes it easier to grip, even when wet. Multiline II provides the greatest durability, highest strength, lightest weight, and most consistent supple feel over time of any commercially available composite rope. Multiline is easily identified by its familiar two orange markers.

Features

- Spun polyester improves grip and knot holding even when wet
- Cores of fibrillated polyolefin keep strands firm and round, enhancing knot holding and hand
- Consistently supple feel over the service life of the rope
- Good resistance to acids

Specifcations

Material: Polyolefin/Polyester

Ø		Weight		Min. Breaking Strength		
				Free length		
mm	inch	g/m	lbs/100	daN	lbf	
8	5/16	39.6	2.70	825	1,860	
10	3/8	62.5	4.20	1,290	2,900	
11	7⁄16	77.4	5.20	1,775	4,000	
12	1/2	99.7	6.70	2,265	5,100	
16	5/8	154.7	10.40	3,780	8,500	
19	3/4	215.7	14.50	4,490	10,100	
22	7/8	266.3	17.90	5,780	13,000	
25	1	313.9	21.10	6,895	15,500	
28	11/8	447.8	30.10	9,340	21,000	

All diameters



White with Yellow

NEW ENGLAND MULTILINE

New England Multiline has the same 3-strand composite construction as Multiline II, constructed by twisting three strands polyester around cores of fibrillated polyolefin. In addition, the New England Multiline uses block creel fibers making it a CI-1805 compliant Life Safety 3-Strand rope. Having met the requirements for CI-1805 compliance it is also fully certified as a Life Safety rope per the Association for Challenge Course Technology (ACCT) standards.

Features

- CI-1805 compliant due to block creel fibers
- Fully certified as Life Safety rope per ACCT standards
- Great for natural crotch rigging
- Good resistance to acids

Technical data see MULTILINE II.

Specifcations

Material: Polyolefin/Polyester Standard: CI-1805, ANSI/ACCT 03-2016

PATRON

The entire Patron series is exceptionally appealing because of its low weight and high breaking strength. Due to the high strength and the low danger of cracking, Patron ropes are the right choice for many different applications. The high-twist 32-strand mantle braid provides for high dirt resistance, better grip and high abrasion protection.

Features

— Lightweight

- High breaking load
- Excellent grip and handling
- 11 mm certified with PETZL ASAP, PETZL

ASAP LOCK acc. to EN 353-2

Specifications

Core: Nylon Cover: Nylon

Standard: EN 1891 B (9 mm)

EN 1891 A (10 mm, 10.5 mm, 11 mm, 12 mm,

14 mm)

CE Test Results per EN 1891

Ø		Weight		Shrinkage	Elongation	Min. Brea	king Strength
						Free length	
mm	inch	g/m	lbs/100	%	%	daN	lbf
9.0	23/64	51.0	3.43	3.0	3.0	2,000	4,495
10.0	3/8	66.0	4.44	3.0	3.0	2,900	6,515
10.5	13/32	72.0	4.84	4.0	3.0	3,200	7,190
11.0	7/16	75.0	5.04	4.0	3.0	3,300	7,415
12.0	1/2	92.3	6.19	4.0	3.0	3,800	8,540
14.0	9/16	123.0	8.20	4.0	3.0	4,200	9,440

ø	Ø Min. Breaking Strength				Cover		
		Sewn		With fig. 8	With fig. 8 knot		
mm	inch	daN	lbf	daN	lbf	%	
9.0	23/64	-	-	1,300	2,920	41.0	
10.0	3/8	2,500	5,620	1,600	3,595	38.0	
10.5	13/32	2,600	5,845	1,800	4,045	37.0	
11.0	7/16	2,700	6,070	1,800	4,045	36.0	
12.0	1/2	3,400	7,640	2,400	5,395	36.0	
14.0	9/16	3,800	8,540	2,800	6,290	41.0	

9.0 mm



White/Blue/Red

10.0 mm



White/Blue



Red/Black

10.5 mm







Orange/Black



Black

11.0 <u>mm</u>



White/Red



Black



Blue



Red



Olive



Red/Black



Black/Grey

12.0 mm



Red/Black



Green/Black

14.0 mm



Black



STA-SET

Sta-Set is a low-stretch polyester double braid. This low-stretch durable line is ideal for all applications requiring control, positioning, lifting, or lowering lines.

Features

Low stretch

Strong

Flexible

— Flexible

— Durable

- Long wearing

Specifications

Core: Polyester Cover: Polyester

Ø		Weight			ing Strength
				Free length	
mm	inch	g/m	lbs/100	daN	lbf
_ 5	3/16	16.4	1.10	530	1,200
6	1/4	29.8	2.00	975	2,200
8	5/16	46.1	3.10	1,555	3,500
10	3/8	64.0	4.30	1,775	4,000
11	7/16	89.3	6.00	2,310	5,200
12	1/2	116.0	7.80	3,935	8,850
14	9/16	150.3	10.10	4,225	9,500
16	5/8	177.1	11.90	5,780	13,000
19	3/4	252.9	17.00	9,785	22,000
22	7/8	352.6	23.70	11,830	26,600
25	1	482.0	32.40	14,855	33,400
28	11/8	592.1	39.80	16,680	37,500
32	11/4	732.0	49.20	16,945	38,100

PERSONAL ESCAPE ROPE

By popular demand, Maxim® has created a new personal escape line. This tiny 7mm cord is perfect for use as a haul line, tag line, lengthening your raps or as a personal escape rappel line when you need to bail. Its stiff construction resists kinking and hanging up while it's small size and weight means that it's well worth bringing.

Features

— Light weight

Kink resistant

— High strength

Specifications

Core: Nylon Cover: Nylon

Standard: EN 564:2015

Ø Weight		Min. Breakir	Min. Breaking Strength		
		Free length			
mm	inch	g/m	lbs/100	daN	lbf
7	9/32	32.7	2.20	1,175	2,650

All diameters



White



Green Fleck



Red Fleck



Blue Fleck



Green



Red



Blue





White

9.5 mm



Blue STD-DRY

CANYON CLASSIC

Canyon has been created especially for the harsh conditions of canyoneering. This particular rope has an Endura DRY® treated Nylon core and a highly abrasion resistant Polyester sheath, that also features excellent UV protection. Canyon is the perfect rope for your wildest explorations.

Features

- High abrasion resistance
- Excellent UV protection
- Endura DRY treatment in the core
- Polyester over nylon with a balanced torque free construction
- Ideal for the harsh conditions of canyoneering

Specifications

Core: Nylon Cover: Polyester

Ø	Weight		Min. Breaking Strength		
				Free length	
mm	inch	g/m	lbs/100	daN	lbf
9.5	3/8	65.5	4.40	2,700	6,070

9.0 mm



Sandstone STD-DRY

CANYON ELITE

Canyoneering presents one of the most extreme conditions that a rope can be put through. Ropes that do not absorb water are a lot easier to handle and last longer. To strive for this level of performance, MAXIM® offers the higher end Canyon Elite. This rope features a blended Technora® and Polyester cover over a dry treated Nylon core. The Technora® fiber adds an extreme level of abrasion resistance and therefore makes the rope perfect for the most demanding canyoneering. With Canyon Elite there is no limit to your canyoneering experience!

Features

- Endura DRY treatment in the core
- Technora® in the cover for very high abrasion resistance
- Ideal for the harsh conditions of canyoneering and caving

Specifications

Core: Nylon

Cover: Technora®/Polyester

Ø		Weight		Min. Breaking Strength	
				Free length	
mm	inch	g/m	lbs/100	daN	lbf
9	3/8	65.5	4.40	3,010	6,770

NYLON ACCESSORY CORD

Nylon Accessory Cords feature a kernmantle construction designed and engineered with the same attention to detail as our dynamic climbing ropes. Nylon Accessory Cords are perfect multi-purpose lines for stringing accessories, keeping personal items off the ground, tie-down ropes, or as a decorative accessory for packs or other gear. Each diameter is available in complementary light and dark versions as well as black.



Features

- Perfect for balancing anchors and creating self-equalizers
- Perfect multi-purpose line for stringing accessories
- Great for tie-downs
- Perfect way to keep personal items off the ground

Specifications

Core: Nylon Cover: Nylon

Ø		Weight		Min. Bre	eaking Strength
				Free leng	gth
mm	inch	g/m	lbs/100	daN	lbf
3	1/8	6.0	0.40	165	380
4	5/32	10.4	0.70	205	460
5	3/16	18.9	1.27	495	1,120
6	1/4	25.3	1.70	775	1,750
7	9/32	28.3	1.90	910	2,050
8	5/16	40.2	2.70	1,375	3,100

3 mm



Blue/Purple



Purple/Blue

4 mm



Orange/Black



Black/Orange

5 mm



Red/Teal



Teal/Red

6 mm



Tan/Purple



Purple/Tan

$7 \, mm$ Yellow/Red Red/Yellow OD Green 8 mm Blue/Gold Gold/Blue OD Green **All diameters** Black

POLYESTER ACCESSORY CORD

Polyester Accessory Cords offer the best of both worlds. Polyester resists water, has less stretch, has super vibrant colors and has greater UV resistance. Polyester is also more durable than nylon and its lower stretch offers more abrasion resistance. The Polyester Accessory Cords carry UIAA 102 and EN 564 certification.



Features

- Resists water
- Less stretch
- UV resistant

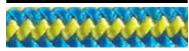
Specifications

Core: Polyester Cover: Polyester

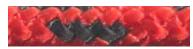
Standard: EN 564 (4-8mm), UIAA 102

ø	Weight		Min. Breaking Strength		
				Free length	า
mm	inch	g/m	lbs/100	daN	lbf
3	1/8	6.7	0.45	130	300
4	5/32	12.3	0.83	290	660
5	3/16	18.9	1.27	475	1,070
6	1/4	26.8	1.80	690	1,550
7	9/32	34.2	2.30	930	2,100
8	5/16	46.1	3.10	1,090	2,450

3 mm

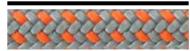


Blue/Yellow



Red/Black

4 mm



Gray/Orange



Orange/Gray

5 mm



Yellow/Blue



Yellow/Black

7mm



Blue/Green





Yellow/Red



Red/Yellow

5 mm



Green



Yellow

6 mm



Red



Light Blue

7 mm



Gold



Teal

8 mm

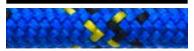


Burgundy



Green

9 mm



Blue



Yellow

PRUSIK CORD

Prusik Cord strikes the perfect balance between firm and supple. We engineered Prusik Cord so that the rope has enough give to grip the climbing rope but is not so mushy that the knot locks up. This results in a smooth, controlled movement over the climbing rope and makes untying the prusik knot easier. Prusik Cord is available in assorted colors in 5 mm – 9 mm diameters.



Features

- Perfect balance between firm and supple
- Provides the ability to have a great grip on the climbing rope without letting the knot lock up

Specifications

Core: Nylon Cover: Nylon

Ø		Weight		Min. Breaking Strength	
				Free length	
mm	inch	g/m	lbs/100	daN	lbf
5	1/7	18.9	1.20	500	1,100
6	1/4	25.3	1.70	780	1,750
7	9/32	28.6	1.92	870	1,955
8	5/16	40.2	2.70	1,380	3,100
9	7/20	52.1	3.50	1,780	4,000

TECH CORD

Tech Cord is an exceptionally strong cord that is very abrasion resistant and is perfect for cordelette. The polyester sheath surrounds a parallel fiber core of 100% Technora®, resulting in a cord that gets extremely high tensile strength. Tech Cord is perfect for balancing anchors, slinging chocks and hexes, and can be used as an emergency rap line. The reported tensile strength of Tech Cord, as with any rope, can be significantly reduced when used with a knot.



Specifications

Core: Technora® Cover: Polyester

Ø Weight

- Exceptionally strong

Abrasion resistantPerfect for cordelette

Features

Ø		Weight		Min. Breaking Strength	
				Free length	
mm	inch	g/m	lbs/100	daN	lbf
1111111	IIICII	6/111	103/100	daiv	toi
3	1/8	11.3	0.76	1,335	3,000
5	3/16	23.4	1.57	2,090	4,700

SHOCK CORD

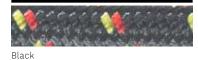
Shock Cord is comprised of top quality rubber which makes it compact, stable, and durable. The outer cover is made of extremely abrasion-resistant polyester.



Specifications

Core: Parallel rubber Cover: Polyester

Sizes



5 mm



Green



Orange



Blue

All diameters



Black



Blue



Red



Yellow



White/Red



ULTRACORD

Ultra light, ultra small and ultra strong – a great cord for general use. The Ultracord's high strength Dyneema® core gives additional strength even at smallest diameters. The 16 strand cover makes it abrasion and UV-resistant. This cord is your perfect companion for general use in climbing and backbacking



Features

- Ultra small
- Ultra strong
- Ultra light
- Ultra great cord general use

Specifications

Core: Dyneema®

Cover: Polyester (1.8mm),

Polyester/Dyneema® (1mm)

Ø	Ø Weight		Min. Breaking Strength		
				Free length	
mm	inch	g/m	lbs/100	daN	lbf
1.0	1/32	1.00	0.07	76	171
1.8	1/16	2.52	0.17	100	225

NFPA THROW LINE

The NFPA - Throw Line is a double braid that features a polypropylene cover with a Dynee-ma® core. This extremely strong and versatile rope has a good hand and a high visibility cover. Designed to be light, strong, and easily packable, it also floats indefinitely.

8 mm



Yellow/Red

Features

- Meets the NFPA specification for a floating water throw line
- Double braid construction
- Soft hand
- Good grip
- Easily packable

Specifications

Core: Dyneema® Cover: Polypropylene Standard: NFPA 1983:2017

Ø		Weight		Min. Breaking Strength	
				Free length	
mm	inch	g/m	lbs/100	daN	lbf
8	5/16	29.8	2.00	1,220	2,750

FLOATING SECURITY LINE

Floating Security Line is made of a 16-plait XLF hollow weave. This makes the line buoyant and easy to splice. Its high visibility colors make it easy to be see.

All diameters



Yellow/Red

Features

Specifications

- Good handling
- Excellent floating characteristics

Material: Polypropylene

Ø Weight			Min. Breaking Strength		
			Free length		
mm	inch	g/m	lbs/100	daN	lbf
8	5/16	21.0	1.41	630	1,410
10	3/8	33.0	2.22	810	1,820

All diameters



Yellow/Red



Yellow/Blue

WATER RESCUE ROPE

Water Rescue Rope is a spliceable floating rope for use in swift-water rescue applications. The rope has a durable nylon sheath that protects the braided multifilament polypropylene (MFP) core from damaging UV rays. This combination results in a strong product that floats just under the surface of the water.

The high visibility yellow color (with contrasting red or blue flecks) is easily seen in the water.

Features

— High load capacity

- Floats in water
- High visibility
- Good grip

Specification	S
----------------------	---

Core: MFP Cover: Nylon

Ø		<u> </u>		Min. Breaking Strength	
mm	inch	g/m	lbs/100	Free length	lbf
11	7/16	78.9	5.30	1,645	3,700



MICRO RAPPEL KIT

Designed in collaboration with the U.S. Army Research, Development and Engineering Center for the U.S. Military Special Forces, the Micro Rappel system is a compact, lightweight two-mode system that converts from a belt to a harness in seconds. The system includes the rappel harness/belt, descender, two carabiners, deployment bag, usage log, instruction sheet, and 82 feet of 5mm Tech Cord with chafe guard. The leg straps for the harness are stowed in the belt. To deploy, the user pulls the leg loop out of the side pouches in the belt, pulls them down the front, in-between the legs, around the back of the leg, and back up. The leg loops and belay loop are then connected with a carabiner (included). The attached deployment bag holds the rope, carabiners, and descent device. The Micro Rappel kit provides a quick means of escape from any potentially volatile situation and requires special instruction and training.

Features

Specifications of rope

- Emergency harness
- Lightweight
- Compact packaging

Core: Technora® Cover: Polyester Standard: CI 1500

Ø		Weight		Min. Breaking Strength			
					Free length		
mm	inch	g/m	lbs/100	daN	lbf		
5	3/16	23.4	1.57	2,090	4,700		

FIBER STRUCTURES

Monofilaments

The yarns consist of one single element of a relatively large diameter and are braided into a rope.

Characteristics:

- Very good abrasion resistance
- Low dirt take-up
- Stiff structure

Textured fibers

A certain degree of disorder is caused in a formerly straight bundle of synthetic fibers to generate characteristics which are usually seen only on natural fibers.

Characteristics:

- Good grip
- High elasticity
- Traditional look and feel

Multifilaments

A bundle of thin fibers processed into twines which are then braided into a rope. The majority of fiber ropes follow this basic design.

Characteristics:

- High Flexibilty
- Hight tensile strength

Staple fiber

This type of material consists of spun pieces of short filaments instead of a bundle of long ones.

Characteristics:

- Excellent grip
- Soft handling

RAW MATERIALS

PBO (Polybenzoxazoles, Crystal Polymer)

The generic fiber PBO refers to Zylon® which is a high performance fiber with the highest strength and lowest stretch of any commercially available fiber. It is extremely expensive and experiences progressive strength loss when exposed to UV-rays.

UHMWPE (Ultra High Molecular Weight Polyethylene)

UHMWPE (also known as UHMPE or HMPE Dyneema®) is an extremely high strength fiber of ultra high molecular polyethylene. For the same weight it has 15 times the tensile strength of steel. Rope made from this type of fiber shows very low elongation and high tensile strength. If very high loads are being applied for a long period of time, UHMWPE fiber tends to creep. The rope then is irreversibly extending its length. At the same time, these robust fibers show excellent performance in terms of abrasion resistance and good UV-resistance.

Aramid (Aromatic Nylon)

On the one hand aramid fibers have an extremely high breaking load and show almost no stretch. On the other hand they are sensitive to UV-rays. It is mainly used in places where high temperature resistance is essential, for example on winches, in hot air balloon ropes, or for any other application where heat exposure needs to be considered.

LCP (Liquid Crystal Polymer)

LCP (known as Vectran®, a brand name of Hoechst Celanese), combines extremely low elongation with extremely high breaking loads. However, its UV-resistance is not very high. It is heat resistant and not very sensitive to bending over sharp edges. The big advantage of Vectran® is, however, that compared to UHMWPE it does not creep.

PES (Polyester)

Static ropes made of polyester fibers are characterized by good breaking loads and low stretch. This material offers both chemical and physical advantages such as UV resistance salt water resistance, and good abrasion strength in both dry and wet conditions. However, the dynamic energy absorption capacity is much lower than that of polyamide ropes and therefore only to a limited extent suitable for types of use involving high impact forces.

NY (Nylon)

Nylon has a high breaking load as well as high elongation. Preferably, it is used in products that are required to absorb shock loads. The abrasion resistance of nylon is better in wet conditions than in dry conditions because it tends to take up water (up to 7%). Kept in wet conditions for too long, the material can become stiff. Another disadvantage compared to polyester is the lower resistance to UV-radiation in sunlight.

PP (Polypropylene)

Due to its limited technical characteristics, polypropylene is only used for simple applications. PP is very light and even buoyant in water. Its abrasion resistance and temperature resistance are lower than those of most other fibers.

PLA (Polylactide)

In technical aspects, PLA yarn is not different from regular synthetic fibers: PLA fiber products also look and feel the same. Polylactic acid is derived from natural sugar resources – which are in turn photosynthesized from CO₂ in plants. They are biodegradable under a specific industrial process. The material can be regarded as "CO₂-neutral" and is therefore renewable.

Technical properties of available raw materials

	PBO Polybenzoxa- zoles, Crystal Polymer	UHMWPE Ultra High Molecular Weight Polyethylene	Aramid Aromatic Nylon	LCP Liquid Crystal Polymer	PES Polyester	NY Nylon	PP Polypropylene	PLA Polylactide
Typical Marketing Term	Zylon®	Dyneema®	Technora®/ Twaron®/ Kevlar®	Vectran®	PES	NY	PP	-
Strength (daN/mm²)	574	345	300	300	110	81	52	51
Specific weight (g/cm³)	1.54	0.97	1.4	1.41	1.4	1.14	0.91	1.25
Water intake (%)	0.5 - 2.0	0	2	<0.1	<0.5	4 - 6	0	0.4 - 0.6
UV-resistance	low	good	limited	limited	very well	average	good	limited
Elongation (%)	2.5 - 3.5	3.5	3.5	3.5	10 - 16	20 - 25	18 - 22	50
Abrasion resistance (dry)	good	very good	good	very good	good	very good	sufficient	limited
Abrasion resistance (wet)	good	very good	good	very good	very good	good	good	limited
Creep	almost not measurable	at high loads	almost not measurable	not measurable	almost not measurable	low	at high loads	_
Melting temp.	charred at	140	charred at 500	330	260	230	165	170



ROPE CONSTRUCTIONS

At TEUFELBERGER we go the extra mile to get the maximum performance out of each of our ropes. Whatever you expect from your rope, we have the right product for you.

3-Strand

A special stabilization process and a solid, balanced construction produce a durable, long-lasting, flexible and easy-to-handle rope that won't harden with age.

Single braid

A supple construction that absorbs twist and does not kink. This simple construction provides great ease of splicing.

Double braid

A braided core inside a braided cover produces an easy-to-handle rope that is strong and very durable. Since the rope consists of two individual parts, it is possible to combine different fibers to create ropes merging specific characteristics of different raw materials. For example, a high tensile core with a heat resistant cover.

Kernmantle

Features a 32-carrier, 40-carrier or 48-carrier sheath that protects the core from grit and particle absorption. The sheath is designed to generate some grab and friction for rappelling and lowering operations. The core is comprised of bundles of fiber that are loosely twisted. These bundles help to keep the rope firm yet flexible.

PLATINUM®

Fiber ropes with the PLATINUM® technology, TEUFELBERGER's innovative braiding technology, feature a permanent, mechanical connection between the core and the cover. The parallel cores are also connected to one another. This interconnection of the independent elements of a rope, result in a compact rope with good handling and higher safety, especially when used in harsh environments.

Bi-Pattern

Bi-Pattern ropes change pattern at their midpoint to permanently mark the center of the rope in a way that is immediately visible to the climber. This change in pattern is generated by repositioning the bobbins (spools) during the braiding process. As no fibers are cut, tied or spliced and no pigments or other chemicals are applied to mark the middle point, Bi-Patterns are the safest form of mid-point marking available for climbing ropes.

Str8 Jacket Core

The Str8 Jacket core allows the rope to hold its shape and keep the cover and core in balance which virtually eliminates sheath slippage.

TPT Technology

Twill Pattern Technology (TPT) is a special cover design resulting in a twill pattern (under two over one) or weave. The cover/sheath of TPT ropes has a smaller profile in cross-section than plain pattern sheaths – the more traditional-looking climbing rope cover. For the climber, this means improved abrasion resistance over abrasive surfaces due to the smaller profile, as well as significantly reduced drag in carabiners and mechanical devices.

Fides III Technology

This type of rope structure is characterized by a 32-plait braided cover and three braided cores. Its design makes this rope particularly well suited for use around sheaves. Furthermore, it provides above average breaking forces in combination with various types of hardware.





















ROPE CARE, SAFETY & USAGE

We take great care in manufacturing the highest-quality ropes. A few guidelines about their use will help you increase the service life of the rope and assist you in achieving the best possible performance using our products.

Abrasion and Sharp Edges

Abrasion and sharp edges are a rope's worst enemies. Check all pieces of your equipment prior to use in order to verify that there are no burrs or sharp edges. Following climbs in highly abrasive environments, always check the ropes for wear-induced damage.

Checks and Inspections

Prior to and after any use, verify that the ropes are in a proper functional condition. Any abnormalities must be noted on the inspection card accompanying the product or a rope log. In order to ensure the user's safety, the product must be checked at least once annually by a qualified expert. If there are any doubts about its safety, the product must be retired. For more detailed information, please read the instructions for use accompanying our products.

Cleaning

Dirt can penetrate a rope resulting in abrasion. In the case of slight soiling, wash the rope with clear water. In the case of more severe soiling, clean the rope with lukewarm water using a rope cleaning detergent. Rinse the rope thoroughly and allow it to dry slowly in the shade, not in direct sunlight and not near radiators. In general the use of distilled water is preferred, as upon drying extremely calcareous water causes lime to crystallize inside the rope. When using a washing machine, possible use a front-loading washer; otherwise, wash your rope in a mesh bag or pillowcase to avoid tangling.

Damage and Retiring of Products

Textile products (harnesses, ropes, lanyards) shall generally be retired:

- ✓ If straps or seams are damaged
- ✓ Upon contact with chemicals, acids, oils, solvents
- ✓ Upon exposure to heavy mechanical loads (falls)
- ✓ In the event of signs of extreme wear (abrasion, furring)
- ✓ In the event of heavy irreversible contamination (grease, oils, bitumen)
- ✓ In the event of fusion or signs of melting (after extreme thermalloads)
- ✓ Contact and friction heat
- \checkmark End of permitted maximum service life

Inspect all ropes before every use for signs of wear or damage. Retire any rope that is cut or abraded.

Elimination of Twist

Twist increases the likelihood that a rope will kink and get caught in pieces of equipment. Severe twist can cause the rope's cross-section to become non-round, resulting in higher wear rates and reduced strength. Eliminating twist from a rope improves its handling comfort and prolongs its service life. Therefore, the rope must be uncoiled correctly, laid out straight and dragged while the loose end is allowed to untwist itself freely.

Winding it up in figure 8 slings or stowing it in a rope bag prevents the rope from becoming twisted during storage.

Endura Standard DRY and 2x-DRY

Endura DRY is a multi-stage application process for MAXIM® climbing ropes to protect them against water. For standard (STD) dry ropes, the coating is applied to the individual core yarns prior to the braiding process. All MAXIM® ropes have dry-treated cores surrounded by a durable, protective nylon sheath to lock in the water-blocking power of the coating. Select models of MAXIM® ropes are 2x-DRY - they have dry treated core and cover. These ropes are treated a second time by submerging the finished rope in our proprietary dry coating. Then the finished product is cured by using an environmentally controlled process, creating a chemical bond between coating and fibers. Endura DRY does more than keeping water out of the rope. The coating also lubricates individual core fibers improving resistance to internal abrasion that can occur beneath the surface.

Rope Storage

Recommended conditions for proper storage:

- ✓ Storage temperature: approx. 68°F / 20°C
- Relative humidity: 65 % max.
- ✓ No direct exposure to sunlight
- ✓ No aggressive chemicals (e.g. acids and alkalis) in the rope's vicinity
- ✓ Protected against sharp-edged objects

The best way to store your rope is loosely, in a dry condition in a rope bag, protected against dirt and sunlight.

Service Life

It is clearly not possible to offer a general statement about the product's service life, as such life span depends on various factors, e.g., UV light, type and frequency of use, handling, climatic influences such as snow, environments such as salt, sand, battery acid, etc. The actual useful life depends solely on the condition of the product, which in turn is influenced by various factors (see above). Extreme influences may shorten it to a single use only or to even less if the equipment is damaged prior to its first use (e.g. in transport). Mechanical wear and other influences such as the impact of sunlight will decrease the service life considerably. Bleached or abraded fibers, harness webbing, discoloration, and hardened spots are surefire indicators that the product needs to be retired.

In general, the following rule applies: if the user, for whatever reason – however insignificant it may seem – is uncertain whether or not the product meets all the necessary criteria, its use must be discontinued and it must be handed to a qualified expert for testing and inspection. Retire any product that exhibits signs of wear! Following a fall, it is absolutely necessary that the product be replaced!

For details regarding the service life of the various products, please see the relevant manufacturer's information documents.

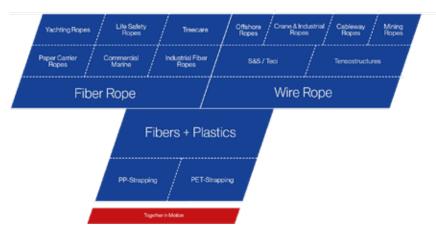


EXPERTISE FROM 225 YEARS OF EXPERIENCE

What started back in 1790, with simple hemp ropes has since evolved into a globally successful group of enterprises specializing in the development and production of fiber and steel wire ropes, as well as strapping.

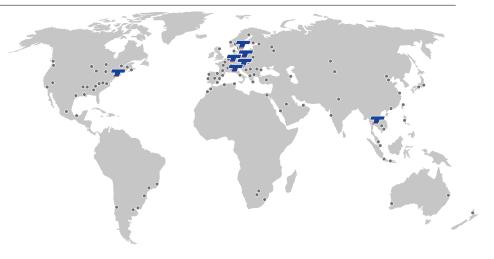
Great diversity

The products and services of TEUFELBERG-ER and its brands MAXIM und New England Ropes are designed for a wide variety of applications ranging from cranes and marine applications to packaging and through to personal protection. The continuity and stability of a family enterprise makes a reliable partner who, completely and effectively, supports you in mastering your day-to-day challenges.



Global presence ensures customer proximity

Manufacturing operations in various countries allow us to meet local quality and certification standards as well as customer requirements without difficulty. From our sites in Austria, the Czech Republic, the U.S., Sweden, Thailand and Italy and backed by a close-knit global network of distribution partners, we continue to satisfy the expectations of our customers.



Innovative solutions through synergies

TEUFELBERGER is a leading specialist for fiber ropes and steel wire ropes and strapping. The spectrum of technologies in TEUFELBERGER 's portfolio generates various synergies between the extrusion of thermoplastics, braiding of high performance fibers, processing of wires into ropes and strapping,

Especially fiber and steel wire products brought about valuable synergies with regard to both application and manufacturing technologies, which have benefited our customers tremendously. This makes TEUFELBERGER your ideal partner right from the project planning phase.

5% of TEUFELBERGER's employees are active in research and development and make sure that our customers have access to the latest, innovative rope technologies. 10% of the entire investment volume are committed to development and quality assurance.

