

A man with a beard and a yellow t-shirt is climbing a dark, textured rock face. He is wearing a climbing harness and has a rope attached to it. His left arm is extended upwards, and his right hand is gripping a rock ledge. The background is a dark, shadowed rock wall. In the top right corner, there is a yellow splash graphic containing the text 'CATALOG VOL. 42'. In the bottom right corner, there is a white splash graphic containing the 'maxim CLIMBING ROPES' logo.

CATALOG
VOL. 42

The logo for Maxim Climbing Ropes features a stylized mountain range silhouette above the word 'maxim' in a bold, lowercase sans-serif font. Below 'maxim' is the text 'CLIMBING ROPES' in a smaller, all-caps sans-serif font. The entire logo is set against a white background with a splash effect.

maxim
CLIMBING ROPES



CONTENTS

Products

Airliner	6
Pinnacle	8
Glider	10
Apex	12
Equinox Elite	15
Unity	18
Chalk Line	20
Ecoline	23
Canyon Elite	24
Personal Escape Rope	24
Nylon Accessory Cord	26
Polyester Accessory Cord	28
Prusik Cord	29
Tech Cord	30
Ultra Cord	31

Tech tips

Fiber structures	32
Raw materials	32
Rope constructions	34
Teufelberger	36
Sustainability	38

WARNING

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 PPE-Regulation (EU) 2016/425, 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 brand 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 DRY-treatment process extends the life of your rope by keeping water out and improving its resistance to internal abrasion. MAXIM® offers STD-DRY treatment where only the rope core is dry treated and 2x-DRY where also the cover offer dry treatment. 2x-DRY ropes are also UIAA water repellent (UIAA Dry). The Bi-Pattern technology makes the mid-point quickly and easily visible to the climber — a huge gain in safety!

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

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.

A product for every need

As a brand of Teufelberger, an over 200 year old family owned rope manufacturer, the MAXIM® product portfolio is not only limited to dynamic ropes. Climbers will find static ropes, accessory cords, shock cords and slings in the portfolio of our partner Teufelberger www.teufelberger.com.

All Information about our products you can also find on our website www.maximropes.com. Our comprehensive product portfolio paired with excellent performance and safety make MAXIM® your perfect partner in climbing.



**WITH YOU WHEN YOU CLIP,
WITH YOU WHEN YOU WHIP.**

Look for
MAXIM® Ropes



SNAPSHOT OF PRODUCTS

	Ø	Weight		Sheath slippage	Elongation		Max. Impact Force	Number of Falls
	mm	g/m	lbs/100	%	dynamic %	static %	kN	minimum
AIRLINER	9.0	54.0	3.50	0	33.5 31.0 29.5	10 10 7.5	8.9 6.9 10.3	5-9 18 28
PINNACLE	9.4	57.0	3.60	0	33.0	8.0	9.0	6-10
GLIDER	9.9	65.0	3.50	0	32.0	8.0	9.3	10
APEX	11.0	81.8	5.50	0	24.0	4.6	9.2	13
EQUINOX ELITE	9.7	61.2	4.10	0	33.5	9.0	8.75	7-12
UNITY	7.8	39.0	2.23	0	32.0 30.0	10.0 5.5	6.4 9.9	7-12 20
CHALKLINE	10.1	65.5	4.40	0	35.0	9.5	9.1	6-10
ECOLINE	10.1	66.0	4.42	0	34.5	9.5	8.7	7

All of our products begin with the highest quality of raw materials.

We, as a brand, 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 strength 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.

AIRLINER

The MAXIM® Airliner is ultra-light, ultra-skinny and perfect for quick ascents with long pitches, multi day climbs or areas with long approaches. The Airliner is an indestructible rope that is triple certified as a single, twin and half rope. Using this skinny climbing rope is the quickest way to save some weight.

9.0 mm



Carnival 2x-DRY



Jungle 2x-DRY



Features

- ✦ Ultra-light
- ✦ Ultra-skinny
- ✦ Durable
- ✦ Triple-certified as a single, half and twin rope
- ✦ 2x-DRY treated (UIAA Dry)

Specifications

- Core: Nylon
- Cover: Nylon
- Standard: EN 892, UIAA 101
- ① Single rope
- ② 1/2 Half rope
- ③ Twin rope

Ø	Weight		Sheath slippage	Elongation		Max. Impact Force	Number of Falls
	g/m	lbs/100		dynamic %	static %		
9.0	54.0	3.50	0	33.5 31.0 29.5	10 10 7.5	8.9 6.9 10.3	5-9 18 28

rope type: single rope | half rope | twin rope

Burly like a 10 mm but super light and handles like a skinny rope!

Jonathan Siegrist



© Ryan Deegan



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 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!



9.4 mm



Blue Ocean 2x-DRY



Community STD-DRY



Yellow Jacket 2x-DRY | **Bi-Pattern**

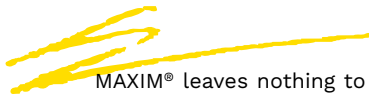
Features

- ✦ Lightweight
- ✦ Durable
- ✦ Abrasion resistant
- ✦ Twill Pattern Technology TPT
- ✦ PFC Free

Specifications

Core: Nylon
 Cover: Nylon
 Standard: EN 892, UIAA 101
 ① Single rope

Ø	Weight		Sheath slippage	Elongation		Max. Impact Force	Number of Falls
	g/m	lbs/100		dynamic %	static %		
9.4	57.0	3.60	0	33.0	8.0	9.0	6-10



MAXIM® leaves nothing to chance. For me, it is the epitome of perfection which I trust with my life daily. No matter what my outdoor pursuits are, those ropes are my perfect partner.

Mich Kemeter



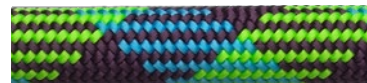


GLIDER

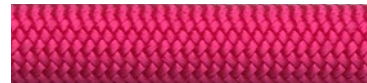
Glider ropes feature our Twill Pattern Technology (TPT), a unique twill sheath design. This unique braiding technology results in a smoother cover that reduces drag. This gives the feeling of lighter weight as you pull the rope through protection on sport routes. What really separates the Glider from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



9.9 mm



Session 2x-DRY



Pink 2x-DRY



Send Your Face STD-DRY



Rasta 2x-DRY | Bi-Pattern

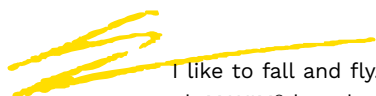
Features

- * Twill Pattern Technology (TPT)
- * Smoother cover that glides through protection
- * Supple feel
- * Twill Pattern Technology TPT
- * PFC Free

Specifications

Core: Nylon
 Cover: Nylon
 Standard: EN 892, UIAA 101
 ① Single rope

Ø	Weight		Sheath slippage	Elongation		Max. Impact Force	Number of Falls
	g/m	lbs/100		dynamic %	static %		
9.9	65.0	3.50	0	32.0	8.0	9.3	10



I like to fall and fly. And I like to be stopped before the ground. MAXIM® has the ropes that can do that job the best!

Klemen Becan





APEX

MAXIM® Apex is the workhorse of the MAXIM product line. Designed for top rope, big wall, trad climbing or for working projects and developing routes, this traditional pattern climbing rope meets the mark of high performance and a high UIAA fall rating.



11.0 mm



Spring STD-DRY



Purple Hase STD-DRY




OD Green 2x-DRY

Features

- * Extremely high durability
- * Select model offers 2x-DRY (UIAA Dry)
- * Designed for big wall and trad climbing
- * Supple handling
- * Extremely high durability
- * Runs freely
- * Excellent knotability

Specifications

Core: Nylon
 Cover: Nylon
 Standard: EN 892, UIAA 101
 ① Single rope

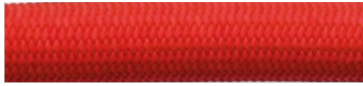
 Only available in US

Ø	Weight		Sheath slippage	Elongation		Max. Impact Force	Number of Falls
	g/m	lbs/100		dynamic %	static %		
11.0	81.8	5.50	0	24.0	4.6	9.2	13





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 MAXIM® Equinox Elite makes climbing a true joy!



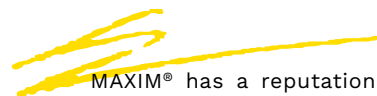
Features

- ✦ 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
	g/m	lbs/100		dynamic %	static %		
9.7	61.2	4.10	0	33.5	9.0	8.75	7-12



MAXIM® has a reputation for high-quality, trustworthy gear. I'm able to focus more on my climbing when I don't have to worry about what happens when I eventually find myself hanging at the end of the rope.



Cat Runner

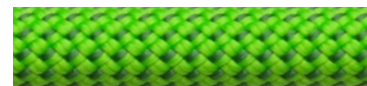




UNITY

Unity is a multi-purpose half/twin 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 7.8 mm in 2x-DRY (UIAA Dry).

7.8 mm



Emerald 2x-DRY



Sapphire 2x-DRY



Features

- ✦ Multi-purpose half/twin rope
- ✦ Constructed to reduce drag
- ✦ Increases fall protection over sharp edges
- ✦ Light and tough enough to be used as a glacier rope

Specifications

Core: Nylon
 Cover: Nylon
 Standard: EN 892, UIAA 101
 ½ Half rope
 ② Twin rope

Ø	Weight		Sheath slippage	Elongation		Max. Impact Force	Number of Falls
	g/m	lbs/100		dynamic %	static %		
7.8	39.0	2.23	0	32.0 30.0	10.0 5.5	6.4 9.9	7-12 20

rope type: half rope | twin rope

I really use it most, it is a very utilitarian, multi use rope. On a long multi pitch rock wall this skinny double rope is easy and light to manipulate and offers very good energy absorbing capacity in case of falls on questionable trad runners. It takes punishment well - for such a thin rope - and has durability over edges, in rough rock and in continuous prolonged use. Also being dry, it does not absorb water so i can use this rope on frozen icefalls as twin rope and in glacier travel as single strand.



Tunc Findik



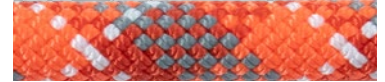
CHALK LINE

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.

10.1 mm



Arctic



Arno



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 slippage	Elongation		Max. Impact Force	Number of Falls
	g/m	lbs/100		dynamic %	static %		
10.1	65.5	4.40	0	35.0	9.5	9.1	6-10





10.1 mm



Multicolor (example 1)



Multicolor (example 2)

ECOLINE

MAXIM® Ecoline is the economical solution for high-use indoor climbing. Built with eco-friendly sheath fibers and solid abrasion resistance, this rope is gym-ready and budget-smart. At 10.1 mm, it's easy to handle, easy to knot, and great for belaying—perfect for rental setups, beginner areas, and training routes where value and reliability matter most.



Features

- * Economical all-around gym rope
- * Eco-friendly sheath fibers
- * High abrasion resistance for extended indoor use
- * Easy to knot, great to belay
- * PFC & PFAS free

Specifications

Core: Nylon
 Cover: Nylon
 Standard: EN 892, UIAA 101
 ① Single rope

Ø	Weight		Sheath slippage	Elongation		Max. Impact Force	Number of Falls
	g/m	lbs/100		dynamic %	static %		
10.1	66.0	4.42	0	34.5	9.5	8.7	7

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!

9.0 mm




Sandstone STD-DRY

Features

- ✦ 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

 Only available in US

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

Static Lines

PERSONAL ESCAPE ROPE

By popular demand, Maxim® has created a personal escape line. This tiny 7 mm 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 its small size and weight means that it's well worth bringing.

7.0 mm




White

Features

- ✦ Light weight
- ✦ Kink resistant
- ✦ High strength

Specifications

Core: Nylon
Cover: Nylon
Standard: EN 564

 Only available in US

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



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.




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

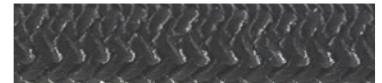
Specifications

Core: Nylon
Cover: Nylon
Standard: EN 564, UIAA 102 (7 mm)

 Only available in US

Ø	Weight			Min. Breaking Strength		
	mm	inch	g/m	lbs/100	Free length	
					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	

3.0 mm



Black

4.0 mm



Orange/Black

5.0 mm



Red/Teal

6.0 mm



Gold/Purple

7.0 mm



Yellow/Red

8.0 mm



Gold/Blue



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

 Only available in US

Ø	Weight			Min. Breaking Strength			
	mm	inch	g/m	lbs/100	Free length	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		

3.0 mm



Red/Black

4.0 mm



Gray/Orange

5.0 mm



Yellow/Black

6.0 mm



Orange/Gray

7.0 mm



Green/Blue

8.0 mm



Yellow/Red

5.0 mm



Yellow

6.0 mm



Red



Light Blue

7.0 mm



Gold



Teal

8.0 mm



Burgundy



Green

9.0 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 5mm – 9mm 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

 Only available in US

Ø	Weight		Min. Breaking Strength			
	mm	inch	g/m	lbs/100	Free length	
					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.



Features

- ✦ Exceptionally strong
- ✦ Abrasion resistant
- ✦ Perfect for cordelette

Specifications

Core: Technora®
 Cover: Polyester
 Only available in US

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

3.0 mm



Black

5.0 mm



Green



Orange



Blue



ULTRA CORD

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 backpacking




Features

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

Specifications

Core: Dyneema®
Cover: Polyester (1.8 mm),

 Only available in US

Ø		Weight		Min. Breaking Strength	
		g/m	lbs/100	Free length	Free length
mm	inch			daN	lbf
1.8	1/16	2.52	0.17	100	225

FIBER STRUCTURES

Monofilaments

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

Characteristics:

- * Low dirt take-up
- * Very good abrasion resistance
- * 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
- * Traditional look and feel
- * High elasticity

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 Polyamide)

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. It is also highly valuable in situation where increased cut resistance is needed.

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.

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 Flexibility
- * High 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

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.

PA (Polyamide)

PA 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)

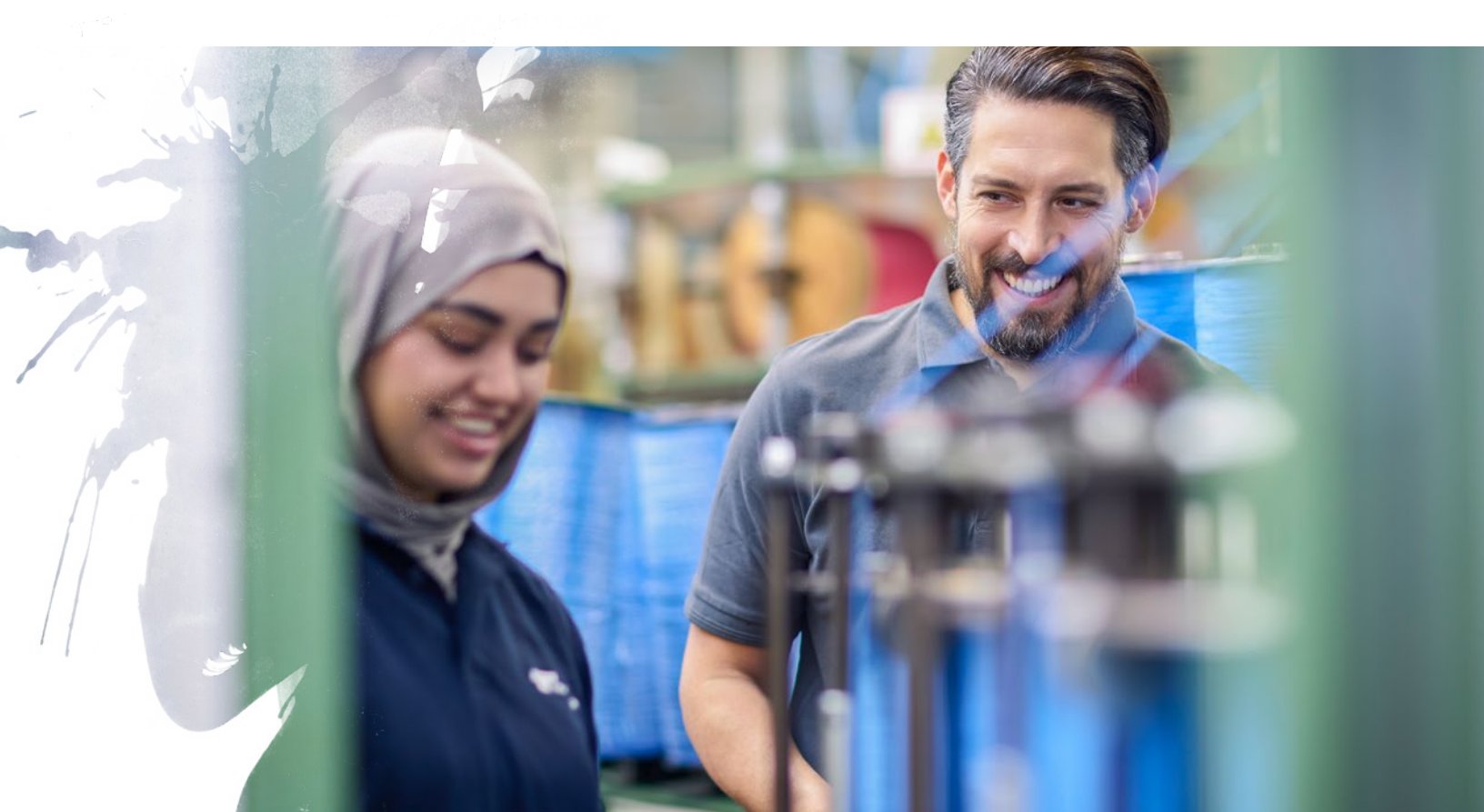
Due to its limited technical characteristics, polypropylene is only used for simple applications. PP is very light and even buoyant in water. Its abrasion resistance and temperature resistance are lower than those of most other fibers.

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.

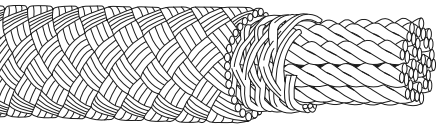
Technical properties of available raw materials

	PBO Polybenzoxa- zoles, Crystal Polymer	UHMWPE Ultra High Molecular Weight Polyethylene	Aramid Aromatic Polyamide	LCP Liquid Crystal Polymer	PES Polyester	PA Polyamide	PP Polypropylene	PLA Polylactide
Typical terms & brand names	Zylon®	Dyneema®	Technora®/ Twaron®/ Kevlar®	Vectran®	PES	Nylon® Perlon®	PP	—
Strength (daN/mm ²)	574	345	300	300	110	81	52	51
Specific weight (g/cm ³)	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	limited	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. (°C)	charred at 650	140	charred at 500	330	260	230	165	170



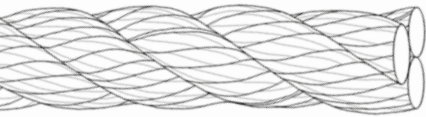
ROPE CONSTRUCTIONS

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.



Core Protect

A high-strength aramid intermediate sheath forms a protective barrier around the core, providing unique cut resistance and stability under load, while maintaining the rope's flexibility in extreme conditions.



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.



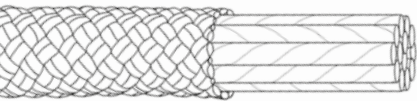
Single braid

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



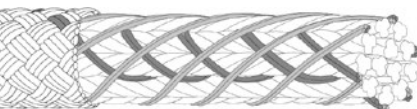
Double braid

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.

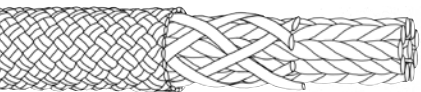


Bi-Pattern

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.

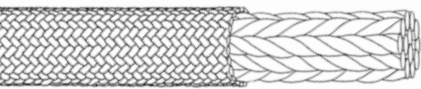


© Oscar Garcia



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.



**MAXIM[®] is a brand
by Teufelberger,
a globally active
family-owned
enterprise.**



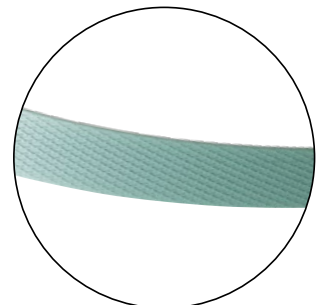
Fiber Rope

- Industrial Fiber Ropes
- Life Safety Ropes
- Paper Carrier Ropes
- Treecare
- Yachting Ropes



Wire Rope

- Cableway Ropes
- Crane & Industrial Ropes
- Mining Ropes
- Offshore Ropes
- S&S / Teci
- Tensostructures



**Strapping
Solutions**

- PET Strapping
- PP Strapping
- better.collect

ONE COMPANY INFINITE POSSIBILITIES

What started back in 1790 as a simple shop making 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.

Innovative products of outstanding quality

Our expertise in a wide range of technologies has generated numerous synergies between our various divisions, much to the benefit of our customers. By assigning five percent of our employees to research and development, we make sure that our customers keep benefitting from cutting-edge technologies. In addition to upholding social and environmental standards, we also pay close attention to delivering consistently high quality and make sure that all our products comply with our quality standards. We work on an equal footing with our customers to find optimal solutions in the field of fiber ropes and their applications. The continuity and stability of our family business make us a reliable partner who can support you in solving your daily challenges.

Quality without compromises

At Teufelberger, quality is a key priority. From the receipt of the raw materials to the delivery of the finished product, strict quality checks are standard practice.

Your trusted partner

Our portfolio is already extensive, nevertheless we continue to develop innovative products that meet your evolving needs and requirements. Teufelberger

offers comprehensive expertise in various segments of rope engineering, which gives you a decisive advantage in the selection and development of your rope.

Product development is key

The development of our product portfolio is an ongoing process fueled by our innovative spirit, our aspirations for continuous improvement and our passion to develop the best products.

Our product development process incorporates fiber research and testing, prototype development, internal inspections, tests for compatibility with commercially available products, field tests and practical trials by experienced users.

Global network and market proximity

The keys to our success are international locations and a high degree of interaction with the customer. Our product development teams in Europe and the US work closely with our customers and external partners, like research institutes and certification authorities, to create products that do not only meet European and International standards but also live up to the high expectations of professionals. 14 locations around the world, including manufacturing sites in Austria, Italy, Poland, Thailand, the Czech Republic, and the U.S.

FOCUSED ON SUSTAINABILITY

Our commitments

With its Agenda 2030 for Sustainable Development, the United Nations has set a milestone for the future when it comes to spurring worldwide economic progress in harmony with social justice and the ecological limits of our planet. Based on the goals of this agenda, Teufelberger has developed five relevant, group-wide commitments in order to promote sustainability:

1

to create added
value for employees
and the region



2

to protect
our
resources



Sustainability in everything we do.

Teufelberger, a family-run business for seven generations, looks back on 230 years of company history. Its continued successful development over such a long period of time has been made possible only through resource-saving and sustainable thinking and acting. "Sustainability in everything we do" has been a principle guiding us since 1790. And, in order to ensure the future existence of our company, we are now setting the course for the future – with a strong focus on sustainability.

3

to use energy sustainably



4

to increase safety and security



5

to achieve progress through innovation and technology



Sustainability at MAXIM® – Shaping a Better Future Together

At MAXIM®, we develop climbing ropes with a focus on technical reliability and responsible material use.

- ✦ One example is the **Ecoline**, which incorporates colour-change material streams to utilise existing resources more efficiently.
- ✦ Based on completed testing phases, we plan to introduce dynamic ropes containing re-material in 2026.
- ✦ All MAXIM® ropes are produced in the EU and do not include PFC-based finishes.

These characteristics help reduce transport distance and avoid specific chemical treatments, while maintaining the performance expected in climbing applications.

Sustainability is a shared journey

Our product development follows Design-for-Recycling approaches, aiming to support easier material separation at end of life. We are working on take-back options for used ropes, further evaluating internal regranulation of PP spools, and improving packaging solutions to reduce material use or increase recyclability.

These steps are part of our broader 2030 targets, which focus on resource efficiency, responsible material flows, and transparent product development processes.

Our vision is clear

MAXIM® creates ropes built to last, shaped by careful material choices and tested improvements that bring confidence, clarity, and readiness for future challenges.



MAXIM® – CRAFTED FOR THOSE WHO MOVE WITH INTENTION.



Teufelberger Fiber Rope Corp.

848 Airport Road
Fall River, MA 02720, USA
Telephone: +1 508 678 8200
Fax: +1 508 679 2363
maximropes@teufelberger.com

Teufelberger Fiber Rope GmbH

Vogelweiderstraße 50
4600 Wels, Austria
Telephone: +43 (0) 7242 413-0
Fax: +43 (0) 7242 413 169
maximropes@teufelberger.com

www.maximropes.com