SAFETY AND RESCUE

Products

© Knut Foppe

CONTENTS

⚠ WARNING

Using these products can entail risks. Do not use them for any other than the intended purposes. Especially, do not use them for personal protection or 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). Tested values with sewn termination are based on the seam pattern certified by TEUFELBERGER.

ONE COMPANY – INFINITE POSSIBILITIES

When it comes to your safety, we leave nothing to chance. As the largest manufacturer of safety and rescue ropes worldwide, we are your trusted partner for safety products that are perfectly tailored for working at height industries. TEUFELBERGER keeps you safe – always!

Global competence with facilities in Europe & USA

Trusted partner for international OEMs

Extensive product portfolio

Static ropes	Dynamic ropes	Heat-resistant ropes	Throwlines	General purpose ropes	Technical laces	Accessories

Comprehensive product development process

Fiber research	Prototype development	Internal inspection	Compatibility testing	Practical field testing	Certification

TEUFELBERGER is the largest manufacturer of safety and rescue ropes worldwide and specializes in ropes for workplace safety, rope access, emergency response and all segments involving working with a risk of falls from a height. In addition to the static safety and rescue ropes, including heat resistant ropes and throwlines, our portfolio also includes dynamic climbing ropes of TEUFELBERGER's MAXIM® brand, technical laces for safety footwear as well as customized production of fall protection ropes and equipment for international OEMs.

Together with our customers we develop ropes that make work easier, safer and more ergonomic. 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 industry professionals.

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 for work at great heights. Due to these characteristics, we have been able to convert groundbreaking ideas such as our innovative PLATINUM® technology into practical solutions.

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. Finally, the process culminates with the product certification conducted by independent third parties. This comprehensive product development process was developed and refined over the years and has played an important role in making TEUFELBERGER a key player in the world of work at height.

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. Each rope, lanyard or sling made by TEUFELBERGER has its individual inspection number which not only indicates the year it was manufactured but also ensures the traceability of the product.

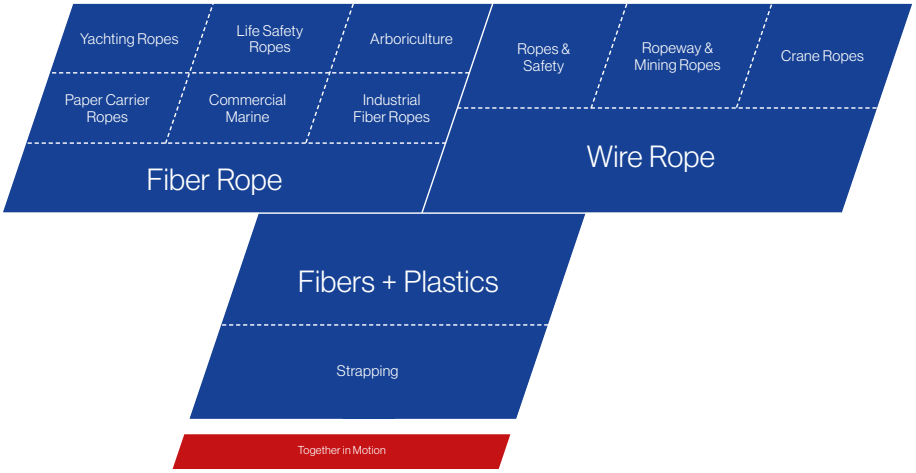
Your trusted partner
Our portfolio is already extensive, nevertheless we continue to develop innovative products that meet your evolving needs and requirements. TEUFELBERGER offers comprehensive expertise in various segments of rope engineering, which gives you a decisive advantage in the selection and development of your rope. Our research and development department engineers custom-tailor solutions and implements them in the best possible way. Whatever requirements are, we are the right partner for you!

EXPERTISE FROM 225 YEARS OF EXPERIENCE

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.

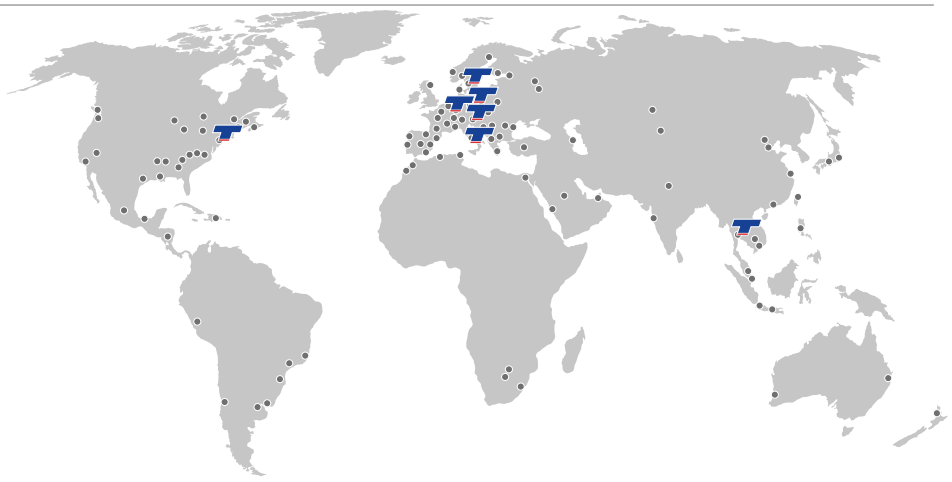
Great diversity

TEUFELBERGER's products and services are destined 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 us a reliable partner who, competently and effectively, supports you in mastering your day-to-day challenges.



Global presence and 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., Italy, Sweden, and Thailand, 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 and steel wire ropes as well as strapping. The spectrum of technologies in TEUFELBERGER's portfolio generates various synergies between the extrusion of thermoplastics, the braiding of high performance fibers, and the processing of wires into ropes and strapping.

Especially fiber and steel wire products have 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 is committed to development and quality assurance.

© Tom Nichol

STATIC ROPES

Low elongation kernmantle ropes are engineered specifically for rope assisted work activities including working at height, restraint tasks, rescue operations and caving.

PLATINUM® Offshore Access

MADE IN

PLATINUM® Offshore Access is a rope developed specifically for the harsh conditions encountered during work activities in offshore environments. While exhibiting extremely low elongation, it is still certified to EN 1891 A. PLATINUM® Offshore Access offers good breaking loads as well as advantageous chemical and physical properties such as UV resistance, seawater resistance, and good abrasion strength in both dry and wet conditions. Besides, its innovative color design guarantees excellent visibility. The properties of the fiber combination in connection with our PLATINUM® technology, where the cover and the core are interconnected to each other, result in a rope that is perfectly suited as a work rope for the offshore segment.

10.5mm
Orange/Grey/White

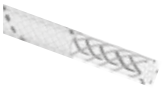
Features

- ✔ Low elongation
- ✔ Good resistance to acids
- ✔ Seawater resistance
- ✔ Slight water absorption or wet shrinkage
- ✔ Good visibility
- ✔ Excellent UV protection
- ✔ 10.5mm certified with PETZL ASAP (B71+B71AAA) and ASAP Lock (B71ALU) according to EN 353-2

Specifications

Core: Nylon
Cover: Polyester
Standard: EN 1891 A
NFPA 1983

Braid: 32



CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
10.5	13/32	78.0	5.20	2	2.00	2,800	6,300	1,500	3,370	2,200	4,950	50.5

NFPA test results

Ø		Elongation				Approved class
mm	inch	at 1.35 kN (%)	at 2.7 kN (%)	at 4.4 kN (%)	at 10 % of MBL	
10.5	13/32	3.3	6.3	9.4	7.4	Technical use

PLATINUM® Protect PES/PA

MADE IN

This PLATINUM® Protect version featuring a polyester cover has been employed with great success in many domains of work at height. Especially when it comes to rope access procedures at extreme heights (e.g. window cleaning), PLATINUM® Protect PES/PA is a must-have for every industrial climber because of its low elongation and safety factor. The PLATINUM® technology with a mechanical connection between the core and the cover enhances your safety because it reduces sheath slippage. In addition, the good handling also makes your work easier.

10.5mm
Green/Grey/White

Black/Grey

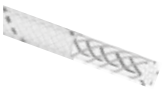
Features

- ✔ Low elongation
- ✔ Good resistance to acids
- ✔ Excellent UV stability
- ✔ Stays flexible in wet conditions
- ✔ 10.5mm certified with PETZL ASAP (B71+B71AAA) and ASAP Lock (B71ALU) according to EN 353-2

Specifications

Core: Nylon
Cover: Polyester
Standard: EN 1891 A
NFPA 1983

Braid: 32



CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
10.5	13/32	78.0	5.20	2	2.00	2,800	6,300	1,500	3,370	2,200	4,950	50.5

NFPA test results

Ø		Elongation				Approved class
mm	inch	at 1.35 kN (%)	at 2.7 kN (%)	at 4.4 kN (%)	at 10 % of MBL	
10.5	13/32	3.3	6.3	9.4	7.4	Technical use

PLATINUM® Protect PA

MADE IN

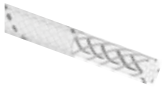
PLATINUM® Protect PA comes in 100% nylon which makes it lighter compared to the PLATINUM® Protect PES/PA. Compared to polyester, nylon is more robust in resisting extreme abrasive forces and thus is especially suitable for use in rough rescue and hoisting equipment scenarios. The permanent mechanical connection between the core and the cover prevents the cover from slipping even if it is cut. The benefit of greater safety and better handling pays off especially when using the rope in training facilities.

Features

- ✔ Lighter than PLATINUM® Protect PES/PA
- ✔ Good abrasion resistance in dry conditions
- ✔ Good ability to absorb shock loads

Specifications

Core: Nylon
Cover: Nylon
Standard: EN 1891 A
Braid: 32



10.5mm

Blue/Grey/White

Red/White

Green/White

CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
10.5	13/32	72.0	4.80	4	3.00	2,800	6,300	1,800	4,050	2,200	4,950	46

PLATINUM® Protect XG PES/PA

MADE IN

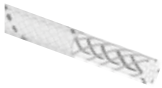
With PLATINUM® Protect XG, TEUFELBERGER has taken its PLATINUM® range to the next level and introduced with 11mm a popular diameter. As in all other PLATINUM® ropes, the core and cover are interconnected at regular intervals. In the PLATINUM® Protect XG, however, the binding yarn also changes its direction at each connecting point. The rope is steadier in access and features reduced kinking especially in case of long abseiling distances. Due to the low stretch, the good UV resistance as well as the high abrasion resistance of the polyester cover, PLATINUM® Protect XG PES/PA is perfectly suited for working at great heights and in rough terrain.

Features

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

Specifications

Core: Nylon
Cover: Polyester
Standard: EN 1891 A
Braid: 32



11mm

Red/White

White/Red

CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
11	7/16	86.0	5.80	3	3.00	3,400	7,640	1,700	3,820	47

KM III

MADE IN

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. 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.

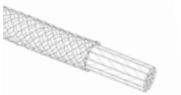
Features

- ✔ 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 (10mm, 10.5mm, 11mm, 13mm)
NFPA 1983 (8.0mm, 9.5mm, 11.0mm, 13.0mm, 14.5mm)

Braid: 32



8mm
White

9.5–14.5mm
White

Red | Safety Green | Blue | Orange | Yellow

OD Green | Black

CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
8.0	5/16	59.5	4.00	< 5	3.50	2,135	4,800	1,200	2,695	1,200	2,695	51
9.5	3/8	65.5	4.40	< 5	3.50	2,700	6,070	1,200	2,695	1,200	2,695	48
10.0	N/A	72.0	4.84	< 5	2.20	2,700	6,070	1,500	3,370	1,500	3,370	48
10.5	N/A	85.0	5.71	< 5	2.20	3,000	6,750	1,500	3,370	1,500	3,370	48
11.0	7/16	86.3	5.80	< 5	2.20	3,510	7,900	1,500	3,370	1,500	3,370	46
13.0	1/2	117.5	7.90	< 5	1.80	4,600	10,350	1,500	3,370	1,500	3,370	47
14.5	5/8	151.8	10.20	< 5	1.30	5,100	11,465	1,500	3,370	1,500	3,370	46

NFPA test results

Ø		Elongation			Approved class
mm	inch	at 1.35 kN (%)	at 2.7 kN (%)	at 4.4 kN (%)	
8.0	5/16	4.30	7.60	11.30	Escape rope
9.5	3/8	3.50	6.20	9.20	Technical use
10.0	N/A	1.80	4.20	6.70	Technical use
10.5	N/A	3.90	7.00	9.70	Technical use
11.0	7/16	2.40	4.20	6.30	Technical use
13.0	1/2	2.80	4.50	7.00	General use
14.5	5/8	2.50	3.40	5.20	General use

KM III Grip

MADE IN

KM III grip has all the benefits of traditional KM III including the special Polygrip sheath design. The Polygrip sheath provides a better grip for hauling systems without sacrificing the functionality and hand that you expect from KM III.

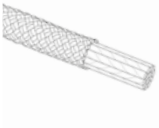
Features

- ✔ Improved handling thanks to Polygrip sheath design
- ✔ Better grip in hauling systems, especially in wet conditions
- ✔ High abrasion resistance

Specifications

Core: Nylon
Cover: Polyester
Standard: NFPA 1983

Braid: 32



11mm
Red

Blue

13mm
Orange

CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
11	7/16	86.3	5.80	< 5	2.20	3,510	7,900	1,500	3,370	1,500	3,370	46
13	½	117.5	7.90	< 5	1.80	4,600	10,350	1,500	3,370	1,500	3,370	47

NFPA test results: Technical data see KM-III. The certification is under process.

NFPA test results

Ø		Elongation			Approved class
mm	inch	at 1.35 kN (%)	at 2.7 kN (%)	at 4.4 kN (%)	
11	7/16	2.40	4.20	6.30	Technical use
13	½	2.80	4.50	7.00	General use

KM III Max

MADE IN

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 finer 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.

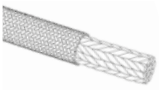
Features

- ✔ TPT construction
- ✔ Exceptional abrasion resistance

Specifications

Core: Nylon
Cover: Polyester
Standard: EN 1891 B (10mm)
EN 1891 A
(11mm, 13mm)
NFPA 1983 (13mm)

Braid: 32



All diameters
Black/Yellow

10 mm
Black

11mm
Orange

CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
9.5	3/8	65.5	4.40	< 5	3.50	2,700	6,070	1,200	2,695	1,200	2,695	48
11	7/16	87.8	5.90	< 5	2.20	3,510	7,900	1,500	3,370	1,500	3,370	47
13	½	116.0	7.80	< 5	1.80	4,600	10,350	1,500	3,370	1,500	3,370	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	3.50	6.20	9.20	Technical use
11	7/16	2.40	4.20	6.30	Technical use
13	½	2.80	4.50	7.00	General use

Ultrastatic

MADE IN

The Ultrastatic is an exceptional static rope with a polyester sheat over a nylon core. Ultrastatic is certified to EN 1891 A and features extremely low stretch along with high static strength and superior handling characteristics. Following these characteristics, the Ultrastatic is a great choice for work and rescue at great heights, use in rough environments of rescue and hoisting equipment, as well as for the use as a rapelling aid.

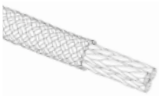
Features

- ✔ Above average breaking strength
- ✔ Exceptionally low stretch
- ✔ Excellent UV stability
- ✔ Good resistance to acids

Specifications

Core: Nylon
Cover: Polyester
Standard: EN 1891 A

Braid: 32



11mm

White/Black 

Yellow 

Black 

Red 

CE test results per EN 1891

Ø		Weight		Elongation 50-150 kg	Shrinkage	Min. breaking strength Free length		With figure 8 knot		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
11	7/16	88.0	5.90	2	2.00	4,000	8,990	1,800	4,050	40

Comes

MADE IN

Comes is the perfect companion for work and rescue operations at great heights. This highly static rope is certified to EN 1891 A and features particularly low stretch and high breaking forces. The cover yarns in the polyester cover are twisted, which makes the rope considerably more abrasion resistant than the popular Ultrastatic, without exhibiting major changes in terms of stretch behavior. Therefore, as well as due to its excellent UV stability, the rope is also perfectly suitable for use in rough terrain. Moreover, Comes is very flexible, feels good to hold and is characterized by very good knotability.

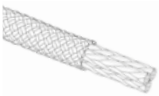
Features

- ✔ Extraordinarily high breaking forces
- ✔ Very low stretch
- ✔ Improved abrasion resistance
- ✔ Very good knotability
- ✔ High UV stability

Specifications

Core: Nylon
Cover: Polyester
Standard: EN 1891 A

Braid: 32



11mm

White/Black 

Red/White 

Black 

CE test results per EN 1891

Ø		Weight		Elongation 50-150 kg	Shrinkage	Min. breaking strength Free length		With figure 8 knot		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
11	7/16	82.0	5.50	2.5	2.50	3,500	7,860	2,000	4,495	36

Patron PLUS

MADE IN

The Patron PLUS was developed specifically to withstand heavy loads in applications such as motor winches. Dirt, climatic influences, heavy loads, and dimensional stability requirements place high demands on a rope. When designing Patron PLUS, we focused on making it extremely robust and compact.

Features

- ✔ High-quality nylon
- ✔ High breaking loads compared with extra light weight
- ✔ Robust and compact
- ✔ Protection against abrasion and ingress of dirt
- ✔ Soft handling
- ✔ High comfort in transport and storage
- ✔ 11.0mm certified with CTL Sparrow (2D646) according to EN 341 A

Specifications

Core: Nylon
Cover: Nylon
Standard: EN 1891 A

Braid: 32

CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
10.0	3/8	66.0	4.44	3	3.00	2,900	6,525	1,600	3,590	2,500	5,625	40
10.5	13/32	72.0	4.85	4	3.00	3,200	7,190	1,800	4,040	2,600	5,850	46
11.0	7/16	75.0	5.04	4	3.00	3,300	7,425	1,900	4,275	2,700	6,075	35

Patron

MADE IN

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 breaking, 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.

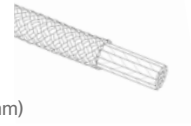
Features

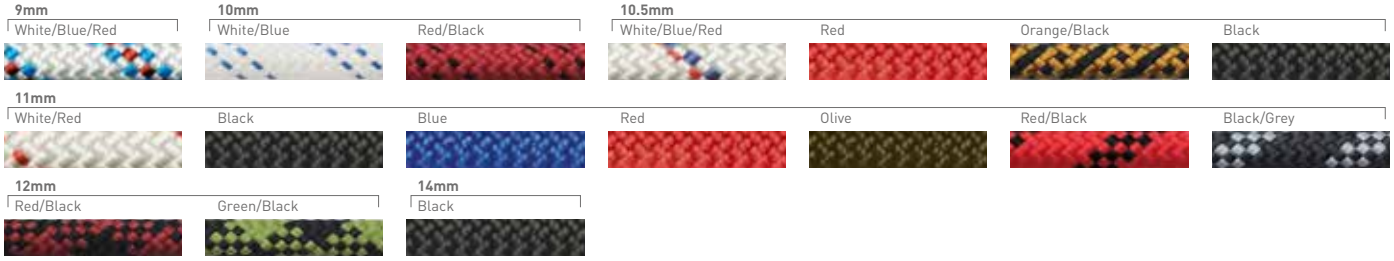
- ✔ High-grade nylon
- ✔ Twisted cores
- ✔ Extra light weight at high minimum breaking load
- ✔ High-twist 32-strand mantle braid > dirt resistance, good grip and high abrasion protection
- ✔ High strength
- ✔ 11.0mm certified with PETZL ASAP (B71 + B71AAA) and ASAP Lock (B71 ALU) according to EN 353-2
- ✔ 11.0mm certified with Anthron DSDplus according to EN 341 A

Specifications

Core: Nylon
Cover: Nylon
Standard: EN 1891 B (9mm)
EN 1891 A
(10mm, 10.5mm,
11mm, 12mm, 14mm)

Braid: 32





CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
9.0	5/16	51.0	3.43	3	3.00	2,000	4,490	1,300	2,920	-	-	41
10.0	3/8	66.0	4.44	3	3.00	2,900	6,525	1,600	3,590	2,500	5,625	40
10.5	13/32	72.0	4.84	4	3.00	3,200	7,190	1,800	4,040	2,600	5,850	46
11.0	7/16	75.0	5.04	4	3.00	3,300	7,425	1,800	4,040	2,700	6,075	35
12.0	1/2	92.3	6.19	4	3.00	3,800	8,540	2,400	5,400	3,400	7,650	36
14.0	9/16	123.0	8.20	4	3.00	4,200	9,450	2,800	6,300	3,800	8,550	41

Multiline II

MADE IN

Multiline II is a 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 II is easily identified by its familiar two orange markers.

All diameters
White/Orange

Features

- ✔ Improved grip and knot holding even when wet
- ✔ Fibrillated polyolefin cores for firm and round hand
- ✔ Consistently supple feel over the service life of the rope
- ✔ Great for natural crotch rigging

Specifications

Material: Polyolefin
Polyester

Braid: 3

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
8	5/16	39.6	2.66	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	1 1/8	447.8	30.10	9,340	21,000

New England Multiline

MADE IN

New England Multiline has the same 3-strand composite construction as Multiline II, constructed by twisting three strands of a blend of spun and filament polyester around cores of fibrillated polyolefin. In addition, New England Multiline uses block creel fibers making it very grippy and therefore also CI-1805 compliant. 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.

All diameters
White/Yellow

Features

- ✔ Block creel fibers for enhanced grip
- ✔ Polyolefin cores for improved abraison resistance and handling
- ✔ CI-1805 compliant Life Safety 3-Strand Rope
- ✔ Fully certified as Life Safety Rope per ACCT (Association for Challenge Course Technology) standards

Specifications

Material: Polyolefin
Polyester

Standard: CI-1805
ACCT

Braid: 3

CE test results per EN 1891

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	1 1/8	447.8	30.10	9,340	21,000

Tutor XG

MADE IN

The “next generation”, Tutor XG, replaces Tutor HST and offers other diameters. Due to its higher cover proportion and the 40-plait braided cover, Tutor XG is very robust and also features particularly high breaking forces in the figure eight hitch. The closely braided thick 40-plait cover of polyamide offers high abrasion resistance. Tutor XG is certified to EN 1891 A, and in selected systems also to 353-2.

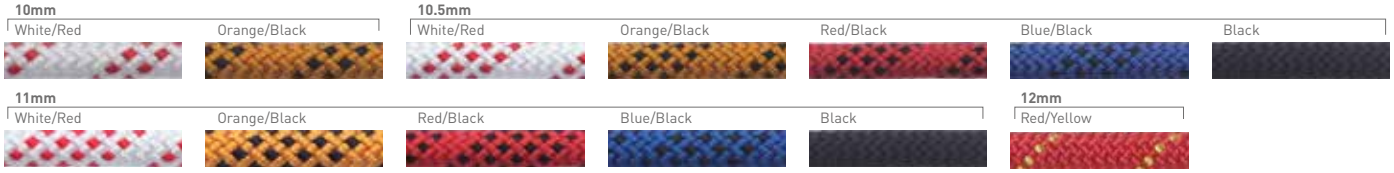
Features

- ✔ Very robust due to high cover proportion
- ✔ High abrasion resistance due to 40-plait braided cover
- ✔ Extremely high breaking force of 11mm in figure eight knot

Specifications

Core: Nylon
Cover: Nylon
Standard: EN 1891 A

Braid:
32 (10mm)
40 (10,5mm -12mm)



CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
10.0	7/16	61.0	4.10	3	3.00	2,600	5,845	1,600	3,595	40
10.5	13/32	70.5	4.70	3	3.00	3,200	7,190	1,800	4,040	36
11.0	7/16	76.0	5.10	4	3.00	3,400	7,640	2,000	4,495	41
12.0	1/2	87.9	5.90	4	3.00	3,800	8,540	2,100	4,720	35

Fides III

MADE IN

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.

Features

- ✔ Perfect for the use in devices conforming to EN 341:2011
- ✔ Above average breaking forces in combination with devices
- ✔ Soft in handling
- ✔ High abrasion strength
- ✔ 3 braided cores

Specifications

Core: Nylon
Cover: Nylon
Standard: EN 1891 A

Braid: 32

CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN		%
9.6	3/8	61.0	4.10	3	4.00	2,500	5,630	1,600	3,590	40
10.5	13/32	74.0	4.98	3	4.00	2,800	6,750	1,800	4,050	35
11.0	7/16	80.0	5.37	3	3.00	3,300	7,420	2,200	4,940	36
12.0	1/2	95.0	6.38	3	3.00	4,000	8,990	2,300	5,170	37

Flex Static

MADE IN

Flex Static is a 9 mm rope which, compared to other ropes of the same diameter, excels due to its extraordinary design both in terms of breaking force and in stretch behavior. The three braided nylon cores provide for higher breaking forces, especially when combined with various devices. Beyond the low-stretch core construction, the multiple-wound cover also adds to low stretch.

9mm
White/Red

Features

- ✔ Highest breaking load due to braided cores
- ✔ Low stretch in use
- ✔ High breaking force in devices

Specifications

Core: Nylon
Cover: Nylon
Standard: EN 1891 B

Braid: 32

CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
9	5/16	50.5	3.40	3	3.00	2,100	4,720	1,300	2,920	40

Pro Static

MADE IN

Pro Static is a nylon rope that is especially suited for use in guided-type fall arresters. The core consisting of six braided core strands and the 40-plait cover make the rope compact while flexible and convenient to use. The closely braided 40-plait cover protects the cores from contamination and makes the rope particularly abrasion resistant.

12mm
White/Red/Black

Features

- ✔ Highest breaking load due to braided cores
- ✔ Compact 40-plait cover prevents interior contamination
- ✔ Excellently suited for guided-type fall arresters

Specifications

Core: Nylon
Cover: Nylon
Standard: EN 1891 A

Braid: 40

CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
12	½	91.5	6.20	4	3.00	4,200	9,440	2,300	5,170	33

Braided Safety Blue

MADE IN

Braided Safety Blue combines features that ensure unparalleled safety, ergonomics, and durability. The blue core of Braided Safety Blue is exposed when the rope suffers deep damage or has worn down to a point where it should be discarded. As a full 12.7mm rope, Braided Safety Blue goes easy on your hands. This allows you to work longer and avoid injury. Where durability is concerned, Braided Safety Blue's design and detailed workmanship are unrivaled. The additional step of plying the yarns in the strands results in a firmer, rounder, and more durable strand. Other 16-strand ropes skip this step, making them more susceptible to abrasion and shortening their life spans.

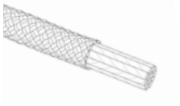
Features

- ✔ Proprietary “blue” safety core
- ✔ Plied strand yarns for improved abrasion resistance
- ✔ Coating with a protective finish improves durability and grip
- ✔ Easy to splice

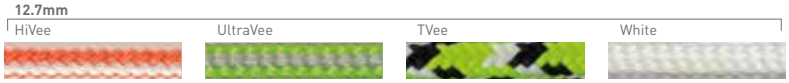
Specifications

Core: Nylon
Cover: Polyester
Standard: EN 1891 A

Braid: 16



12.7mm



CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With [slaice]®		With figure 8 knot		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
12.7	½	106.0	7.10	< 5	2.20	2,580	5,800	1,500	3,370	1,500	3,370	83

Tachyon

MADE IN

In arborist circles, Tachyon has quickly become the most popular of 24-strand ropes. Thanks to its unparalleled feel and its exceptional performance, it is ideal for use with the latest mechanical systems. Its firm and flexible design features a polyester cover which significantly improves friction hitch performance without “bagginess”. The inner core keeps the diameter constant, even under load, for improved grip and less hand fatigue.

Features

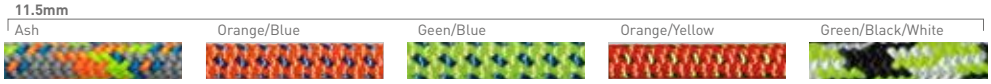
- ✔ Functions perfectly in combination with standard hardware designed for use with 11mm ropes
- ✔ 11.5mm diameter for improved grip and reduced hand fatigue
- ✔ Low stretch at low loads for less bounce while climbing
- ✔ High stretch at high loads to minimize impact in the event of a fall
- ✔ Consistent diameter while climbing ensures improved grip
- ✔ Easy to splice

Specifications

Core: Nylon
Cover: Polyester
Standard: EN 1891 A

Braid: 24

11.5mm



CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With [slaice]®		With figure 8 knot		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
11.5	7/16	94.0	6.30	0.3	2.20	2,625	5,900	1,500	3,370	1,500	3,370	58

Fly

MADE IN

Fly features an ideally balanced structure made up of a polyester cover and a nylon core. Fly is engineered to stay firm and round, which significantly reduces any glazing that can occur when ropes flatten out in hardware. Yet, it remains supple enough to tie into and hold knots well.

Features

- ✔ Unique feel and excellent knot holding properties
- ✔ Resists flattening and glazing on the rope’s surface
- ✔ Low stretch
- ✔ Durable polyester cover

Specifications

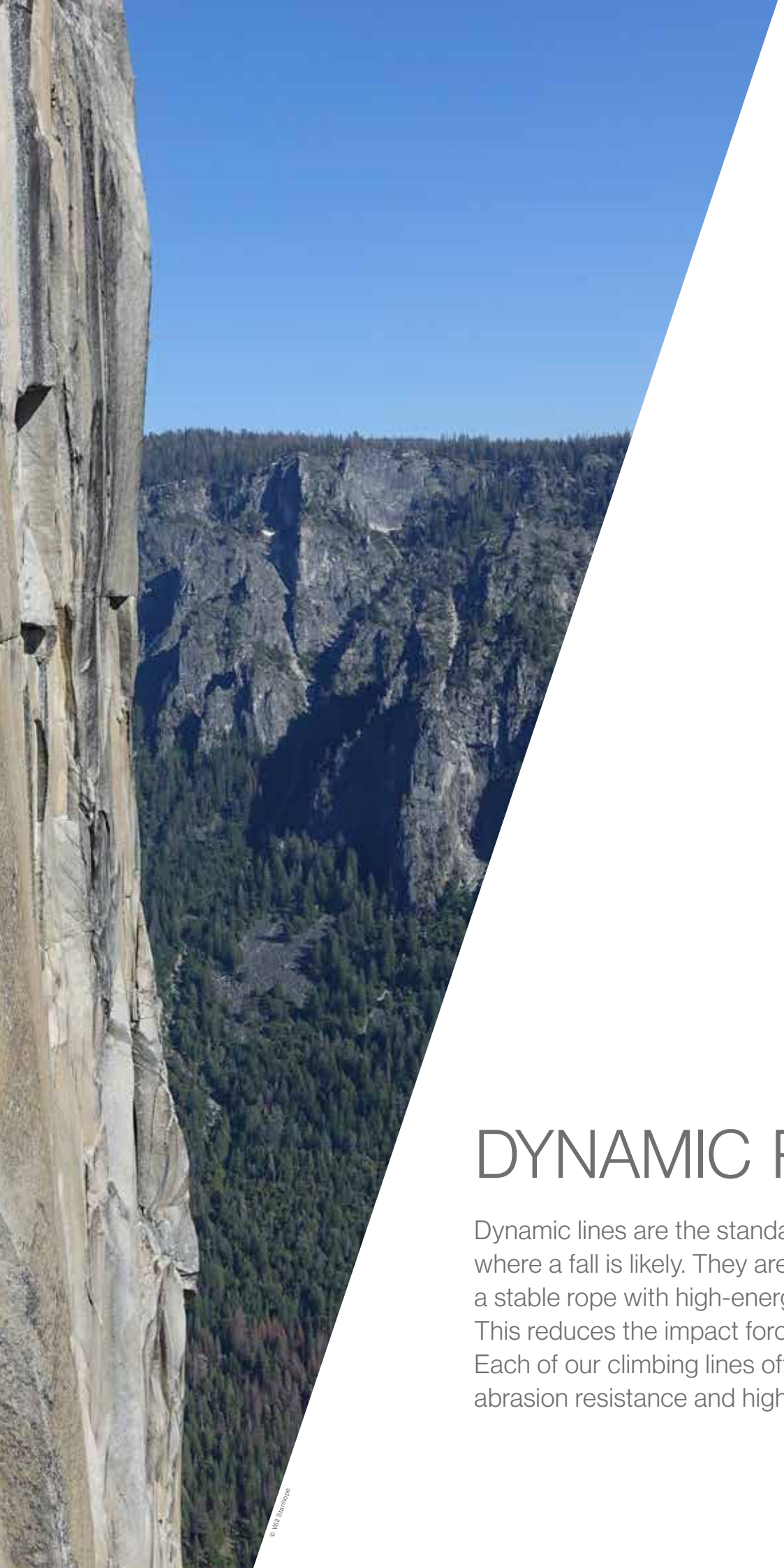
Core: Nylon
Cover: Polyester
Standard: EN 1891 A

Braid: 24

11mm

CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length		With figure 8 knot		Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
11	7/16	86.3	5.80	< 5	1.60	2,400	5,400	1,500	3,370	1,500	3,370	56



© Will Stanhope

DYNAMIC ROPES

Dynamic lines are the standard for situations where a fall is likely. They are designed to offer a stable rope with high-energy absorption. This reduces the impact forces on the climber. Each of our climbing lines offers superior abrasion resistance and high durability.

Apex

MADE IN

Our Apex series ropes are designed to provide optimum life safety while permitting the climber to push past his or her personal limits. Apex offers excellent durability with extreme fall protection. Designed to be pushed everyday. Apex ropes provide the long life and safety assurance you have come to expect from MAXIM® Climbing Ropes. Apex features our proprietary Endury DRY treatment process. All of our ropes have dry treated cores. Select styles have a dry core and cover for the ultimate in dry protection.

Features

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

Specifications

Core: Nylon
Cover: Nylon
Standard: EN 892
UIAA 101

Bi-Pattern

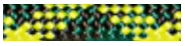
Braid: 48

9.9mm


Cranberry STD-DRY


Yellow 2x-DRY


Terra Cotta STD-DRY


Ivy STD-DRY


OD Green 2x-DRY

10.2mm


Sky 2x-DRY


Autumn STD-DRY

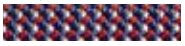
10.5mm


Canyon STD-DRY


Technicolor STD-DRY


Green/Yellow STD-DRY

11.0mm


Purple Haze STD-DRY


Amber 2x-DRY


Spring STD-DRY


OD Green 2x-DRY

Ø	Weight		Elongation EN 892, UIAA		Max. impact force UIAA	Cover	Number of falls	
mm	g/m	lbs/100'	Dynamic (%)	Static (%)	kN	%	Min.	Avg.
9.9	65.5	4.40	29.0	5.0	9.5	35	5	7
10.2	67.0	4.50	29.0	4.5	9.8	38	7	9
10.5	74.4	5.00	29.0	4.8	9.4	28	10	12
11.0	81.8	5.50	29.0	4.8	9.6	29	13	15

Glider

MADE IN

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 when 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
- ✔ Bi-Pattern ropes feature design change at mid point
- ✔ Supple feel
- ✔ Easy clips

Specifications

Core: Nylon
Cover: Nylon
Standard: EN 892
UIAA 101

Bi-Pattern

Braid: 48

9.9mm


Moss* 2x-DRY


Peak 2x-DRY


Midnight 2x-DRY


Milkyway STD-DRY


Venus STD-DRY

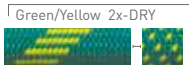

Desert Sun STD-DRY


Smoke 2x-DRY


Send your Face 2x-DRY


Pink 2x-DRY

10.2mm


Green/Yellow 2x-DRY


Red/Black 2x-DRY


Digi/Camo 2x-DRY


Silver* 2x-DRY


Surpass 2x-DRY

10.5mm


Camoforest* 2x-DRY


Mystique STD-DRY

* Denotes regular sheath pattern

Ø	Weight		Elongation EN 892, UIAA		Max. impact force UIAA	Cover	Number of falls	
mm	g/m	lbs/100'	Dynamic (%)	Static (%)	kN	%	Min.	Avg.
9.9	65.5	4.40	29.0	5.0	9.5	35	5	7
10.2	67.0	4.50	29.0	4.5	9.8	38	7	9
10.5	74.4	5.00	29.0	4.8	9.4	28	10	12

Dynaflex

MADE IN

Dynaflex is a dynamic rope that is designed to withstand a relatively high number of falls. It is provided with a 40-or 48-plait cover whose close weave protects the nylon cores within from contamination. The highly twined yarns increase the abrasion resistance of the rope, and the regular pattern in the cover makes Dynaflex very grippy and convenient to use. All these characteristics make it the perfect rope for use under extreme conditions and for Cow's Tails in rope access. All diameters of Dynaflex are certified to EN 892.

Features

- ✔ Compact 40- or 48-plait cover
- ✔ Very grippy handling
- ✔ High abrasion resistance
- ✔ Good for cow's tails

Specifications

Core: Nylon
Cover: Nylon
Standard: EN 892

Braid:
40 (10mm)
48 (11,3mm)

10mm

Red/Black

Black

11.3mm

Red/Black

Blue/Black

Ø	Weight		Elongation EN 892, UIAA		Max. impact force UIAA	Cover	Number of falls	
mm	g/m	lbs/100'	Dynamic (%)	Static (%)	kN	%	Min.	Avg.
10.0	61.0	4.10	31	6.5	9.0	39	7	9
11.3	82.0	5.50	30	6.0	9.0	36	16	18

© Knut Foppe

THROW LINES

It is their excellent handling characteristics that make throwlines from TEUFELBERGER stand out. Providing unlimited buoyancy, excellent grip, and high strength, they are ideally suited for rescue operations on ice, in fast-flowing waters, or at sea.

Floating Security Line

MADE IN

Easy to spot XLF security rope 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 see.

All diameters
Yellow/Red

Features

- ✔ Good handling
- ✔ Excellent floating characteristics

Specifications

Material: Polypropylene

Braid: 16

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

MFP-Throw Line

MADE IN

The MFP Throwline is a 12-plait hollow braid rope made of high-strength polypropylene. It is ideal for use as a throwline and heaving line as it flakes easily and resists kinking. MFP-Throw Line is easily spliced and floats indefinitely. Applications for MFP-Throw Line include: Water Rescue Throw Line, Heaving Line and River Raft Lanyards.

11mm
Yellow/Red

Features

- ✔ Good handling
- ✔ Superior quality fibers
- ✔ Easily packable
- ✔ Excellent float characteristics

Specifications

Material: Polypropylene

Braid: 12

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
11	7/16	46.1	3.10	1,335	3,000

NFPA-Throw Line

MADE IN

The NFPA-Throw Line is a double braid that features a polypropylene cover with a Dyneema® core. This extremely strong and versatile rope has a good hand and a high visibility cover. Designed to be light, strong, and easily packable. The result is a product that is extremely strong and floats indefinitely. Certified to NFPA 1983:2012 for throwlines.

8mm
Yellow/Red

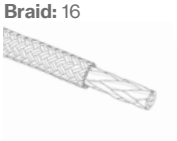
Features

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

Specifications

Core: Dyneema®
Cover: Polypropylene
Standard: NFPA 1983

Braid: 16



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

Water Rescue Rope

MADE IN

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.

11mm

Yellow/Blue

Yellow/Red

Features

- ✔ High load capacity
- ✔ Floats
- ✔ High visibility
- ✔ Good grip ability

Specifications

Core: MFP
Cover: Nylon

Braid: 20

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
11	7/16	78.9	5.30	1,645	3,700

Polygrip Throwline

MADE IN

The Polygrip Throwline is a floating rope made of a polypropylene cover on a nylon core that keeps the rope round. The cover has an added “grip” feature which makes the rope easier to grab and hold with your hand in comparison to other similar diameter ropes. The Polygrip Throwline is certified to NFPA 1983 throwline requirements.

9.1mm

Yellow

Features

- ✔ Excellent floating characteristics
- ✔ Very good grip

Specifications

Core: Nylon
Cover: Polypropylene
Standard: NFPA 1983

Braid: 16

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
9,1	23/64	43.1	2.90	1,375	3,100

© Sam Cossman / Masaya Volcano in Nicaragua

HEAT RESISTANT ROPES

Heat resistant ropes made by TEUFELBERGER were designed specifically for emergency escape or search purposes. Special fibers and designs ensure good heat resistance, abrasion resistance, and higher tensile strength thanks to their compactness, but also good and easy handling characteristics. Each of our climbing lines offers superior abrasion resistance and high durability.

Aramid Escape

MADE IN

Aramid Escape Line was designed in collaboration with science and safety officers from the country's largest fire departments and the world's leading fiber manufacturers, to improve the safety of firefighters – especially those working in tall buildings. Technora® is a perfect fiber for a fire escape rope for its high decomposition point (500°C / 900°F) and durability, an important consideration in bailout situations where sharp glass or rough exterior building materials threaten the integrity of the escape rope. The supple product packs tightly into a compact bag which can be worn on a belt and deployed instantly if necessary.

7.5mm
Gold-Technora® nature

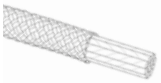
Features

- ✔ Especially designed for firefighters
- ✔ Packs tightly into a compact bag
- ✔ High decomposition point and durability due to Technora® fiber

Specifications

Core: Technora®
Cover: Technora®
Standard: NFPA 1983
Limited UV resistance

Braid: 20



Ø		Weight		Min. breaking strength Free length		Cover
mm	inch	g/m	lbs/100'	daN	lbf	%
7.5	¼	45.8	3.08	2,780	6,250	50.3

NFPA test results

Ø		Elongation			Approved class
mm	inch	at 1.35 kN (%)	at 2.7 kN (%)	at 4.4 kN (%)	
7.5	¼	1.10	1.40	1.60	Escape rope

Yellowstone

MADE IN

TEUFELBERGER's Yellowstone has a thick Technora® sheath and a Safety Blue core made of high tenacity nylon. Yellowstone has little to no stretch and is highly cut and heat resistant. It is perfect for rappelling in high heat situations or over sharp edges and has therefore even been used for rapelling into vulcanos. The Safety Blue nylon core eliminates the bumpiness and "knot memory" that is common to other Technora® ropes. Additionally, it shows easily through any damage to the sheath.

13mm
Gold-Technora® nature

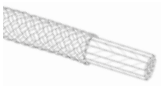
Features

- ✔ High decomposition point (up to 500°C)
- ✔ High firmness and increased resistance to cutting and abrasion

Specifications

Core: Nylon
Cover: Technora®
Standard: NFPA 1983:2012
Limited UV resistance

Braid: 16



Ø		Weight		Min. breaking strength Free length		Cover
mm	inch	g/m	lbs/100'	daN	lbf	%
13	½	98.9	6.65	4,090	9,200	79

NFPA test results

Ø		Elongation			Approved class
mm	inch	at 1.35 kN (%)	at 2.7 kN (%)	at 4.4 kN (%)	
13	½	2.10	4.60	6.30	Technical use

Vulcanus

MADE IN

Vulcanus is certified according to EN 1891 A, designed as a heat-resistant rope and comes with an aramid cover. Contrary to polyester and nylon, aramids are highly heat resistant. What is more, these fibers exhibit excellent strength and slight elongation at break. Vulcanus results in a rope which features increased resistance to cutting and abrasion. It is well suited as a work rope or work positioning rope for work activities near sources of heat and the probability that it gets in contact with sharp edges. In view of its heat resistance, using it for several fast abseiling procedures in rapid succession is not a problem. Hence, it is also well suited for special intervention units, emergency response organizations, and for use in rescue operations.

10.5mm

Gold-Technora® nature

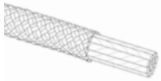
Features

- ✔ Fully compliant to EN 1891 A
- ✔ High decomposition point of the cover (up to 500°C)
- ✔ High firmness and increased resistance to cutting and abrasion

Specifications

Core: Nylon
Cover: Technora®
Standard: EN 1891 A
Limited UV resistance

Braid: 32



CE test results per EN 1891

Ø		Weight		Shrinkage	Min. breaking strength Free length		With figure 8 knot		Cover
mm	inch	g/m	lbs/100'	%	daN	lbf	daN	lbf	%
10.5	13/32	74.0	4.98	0.4	3,200	7,190	1,800	4,040	36

T-12

MADE IN

T-12 is a 12-strand single braid of 100% Technora®. T-12 is characterized by a high breaking force, a very low elongation, little creep, and excellent heat resistance. A special urethane coating improves the abrasion resistance of T-12.

All diameters

Black

Gold-Technora® nature

Features

- ✔ Very high breaking force
- ✔ Very low elongation
- ✔ Very high melting point
- ✔ Urethane coating to improve abrasion strength, and color coding
- ✔ Spliceable

Specifications

Material: Technora®
Limited UV resistance

Braid: 12

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
2	3/32	3.4	0.23	315	710
3	1/8	8.8	0.59	785	1,770
5	3/16	17.7	1.19	1,735	3,900
6	1/4	31.2	2.10	3,290	7,400
8	5/16	46.1	3.10	4,800	10,800
10	3/8	64.0	4.30	6,470	14,550
11	7/16	99.7	6.70	11,210	25,200
12	1/2	119.0	8.00	13,455	30,250
16	5/8	148.8	10.00	19,525	43,900
19	3/4	287.1	19.30	24,020	54,000

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ACCESSORY CORDS & LOOPS

Accessory cords, anchor loops, hitch cords, and multifunctional tools complement our product portfolio.

Sirius Reep Cord

MADE IN

The accessory cord Sirius Reep Cord is the classic prusik cord. Its combination of good knot-ability and flexibility ensures supreme ease of handling.

Features

- ✔ High-grade polyester
- ✔ High-twist 32-strand mantle braid
- ✔ Slip-proof, dirt-resistant, abrasion-resistant

Specifications

Core: Polyester
Cover: Polyester
Standard: EN 564 (8mm)

Braid: 32

8–10mm

Black/Red

Black/Green

Green/Grey

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
8	5/16	50.0	3.40	1,440	3,240
10	3/8	71.0	4.80	2,400	5,390

Sirius Loop

MADE IN

Sirius Loop makes your work easier and safer. The decisive advantage of the stitching of the Sirius Loop as compared to conventional knots is its reliability and compactness. The Sirius Loop is abrasion-resistant and flexible at the same time.

Features

- ✔ Compact stitching
- ✔ Flexible and abraison-resistant
- ✔ Available lengths: 0.50m, 0.60m, 0.70m

Specifications

Core: Polyester
Cover: Polyester
Standard: EN 795 B
ANSI Z133-2012
(Prusik)

Braid: 32

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbs
10	3/8	71.0	4.80	2,450	5,505

Nodus

MADE IN

The Nodus is made of high-grade polyester and is used as a prusik sling and for universal applications. The high-twist 32-strand mantle braid makes the accessory cord immune to dirt and provides for ergonomic handling and high abrasion resistance. The Nodus distinguishes itself by very good knot-ability. High-quality manufacturing provides for high strength and a low danger of breaking.

Features

- ✔ High-grade polyester
- ✔ High-twist 32-strand mantle braid
- ✔ Slip-proof, dirt-resistant, abrasion-resistant

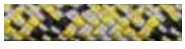
Specifications

Core: Polyester
Cover: Polyester
Standard: EN 564

Braid: 32

4–6mm

Yellow/Black/White



6mm

Black

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
4	5/32	12.4	0.80	450	1,010
6	1/4	26.5	1.80	940	2,110

epiCORD

MADE IN

epiCORD is the latest addition to the TEUFELBERGER hitchcord range. It comes with a tight cover of a polyester/Technora® mix that offers increased protection to the lightweight but heat sensitive core. The cover is flexible enough to allow the climber to tie hitches easily. The core of epiCORD is a blend of Technora® and Dyneema® braided in a special balance that allows your hitch to release when you need it to.

Features

- ✔ Tight Polyester/Technora® cover
- ✔ Blended Technora®/Dyneema® core
- ✔ Easy to tie and release hitches

Specifications

Core: Technora®/ Dyneema®
Cover: Polyester/ Technora®
Standard: ANSI Z133-2012

Braid: 32

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
8.0	5/16	52.1	3.50	2,400	5,400
9.3	11/32	59.5	4.10	3,250	7,300
10.0	3/8	62.5	4.20	4,080	9,180

Nylon Accessory Cord

MADE IN

Our Nylon Accessory Cords feature a kernmantle construction designed and engineered with the same attention to detail as our dynamic climbing ropes. Nylon Accessory Cord is a perfect multi-purpose line for stringing accessories, keeping personal items off the ground, tie-down ropes, or as a decorative accessory for packs or other gear.

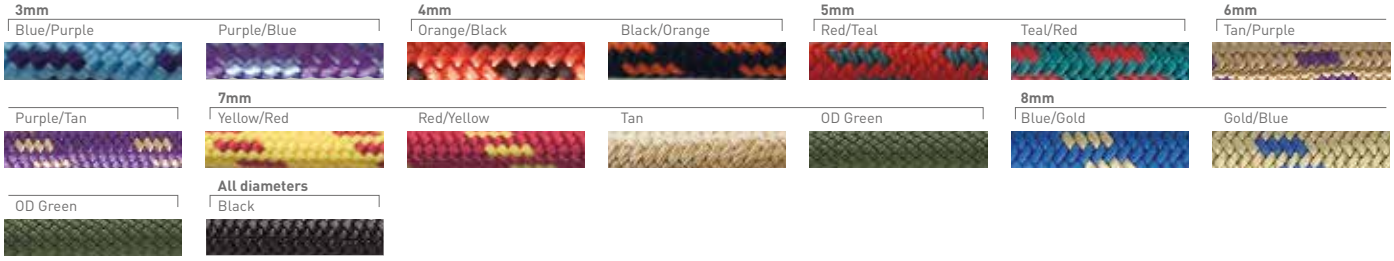
Features

- ✔ 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 (7mm)
UIAA 102 (7mm)

Braid: 12



Ø		Weight		Min. breaking strength Free length	
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

Prusik Cord

MADE IN

Our Prusik Cord strikes the perfect balance between firm and supple. We engineered Prusik Cord so that the rope has enough grip on the climbing rope but not be 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 to manage. Prusik Cord is available in 5mm to 9mm diameters, each diameter available in two reverse light and dark patterns.

Features

- ✔ Perfect balance between firm and supple
- ✔ Great grip on the climbing rope without letting the knot lock up

Specifications

Core: Nylon
Cover: Nylon
Braid: 32

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

Polyester Accessory Cord

MADE IN

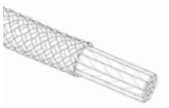
Our Polyester Accessory Cord offers interesting features for various purposes. Polyester resists water, has less stretch and greater UV resistance than nylon. In addition it is available in super vibrant colors, is more durable and its lower stretch offers more abraison resistance. The Polyester Accessory Cord carries 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
Braid: 24



Ø		Weight		Min. breaking strength Free length	
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

Tech Cord

MADE IN

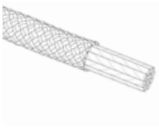
Tech Cord is extremely strong and extremely abrasion resistant. The polyester cover surrounds a parallel fiber core of 100% Technora®, resulting in a cord that gets extremely high tensile strength. The reported tensile strength of Tech Cord, as with any rope, can be significantly reduced when used with a knot. The most recommended knot for this cord is a double fishermans.

Features

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

Specifications

Core: Technora®
Cover: Polyester
Braid: 24



3mm
Black

5mm
Orange

Blue

Green

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

Ocean Vectran®

MADE IN

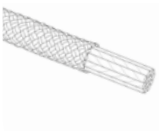
The Ocean Vectran® rope has long become indispensable in the field of hitchcords. Composed of a polyester/aramid sheath, which is also used in the Ocean Polyester, makes the rope highly abrasion resistant, grippy and heat resistant. The load-bearing core of this rope is made of a high-strength Vectran® and allows for very high breaking loads, with a diameter of only 6mm.

Features

- ✔ Highly abrasion resistant
- ✔ Grippy
- ✔ Heat resistant

Specifications

Core: Vectran®
Cover: Polyester/ Aramid
Standard: EN 564
Braid: 24



6mm
Green/Yellow

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
6	1/4	32.5	2.20	2,200	5,000

Ocean Polyester

MADE IN

Ocean Polyester is our response to the high demands of hitch cords. Composed of a polyester/aramid sheath and a polyester core, its construction makes the rope highly abrasion resistant, grippy, and heat resistant. Ocean Polyester is a great value for the money.

8–10mm

Green/Yellow

Red/Yellow

Features

- ✔ Highly abrasion resistant
- ✔ Grippy
- ✔ Heat resistant

Specifications

Core: Polyester
Cover: Polyester/ Aramid
Standard: EN 564 (8mm)

Braid: 32

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
8	5/16	50.0	3.40	2,200	5,000
10	3/8	72.0	4.80	3,300	7,410

Ocean Polyester Loop

MADE IN

Tested to EN 795 B and EN 566, respectively, the Ocean Polyester Loop is suited for a wide range of uses and is a must-have for all industrial climbers. Manufactured on automated machines, the stitched rope connection is of higher quality and less bulky than a knot. The static breaking force of the OP Loop 10mm was determined using the testing method according to EN 566. Tested to EN 795 B, the OP Loop 8mm provides such durability that, after arresting a fall, it may be safely in service for the duration of an ongoing rescue (confirmed by TÜV).

Features

- ✔ Automated stitching
- ✔ Higly durable
- ✔ Highly abraison resistant
- ✔ Available lengths:
  8mm: 0.30m, 0.60m, 1.20m, 1.50m
  10mm: 0.50m, 0.70m, 1.50m

Specifications

Core: Polyester
Cover: Polyester/ Aramid
Standard: EN 795 B
EN 566 (10mm)

Braid: 24

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
8	5/16	50.0	3.40	2,200	5,000
10	3/8	72.0	4.80	2,700	6,135

Ocean Polyester E2E

MADE IN

The cover of Ocean Polyester E2E consists of braided polyester/aramid, its core of high quality polyester fibers. This mix of materials makes E2E highly heat resistant. The stitched eye-to-eye loops come in diameters of 8 or 10mm and are designed to grip a karabiner. There is no shorter EN-certified stitch pattern on the market. Such is the durability of Ocean Polyester E2E that, after arresting a fall, it may safely be retained in service for the duration of an ongoing rescue (confirmed by TÜV).

Features

- ✔ Heat resistant
- ✔ Stitched eyes design to grip on carabiner
- ✔ Highly durable
- ✔ Available lengths:
  8mm: 0.85m, 0.90m, 0.95m
  10mm: 0.65m, 0.80m, 0.85m, 0.90m, 0.95m, 1.0m, 1.05m

Specifications

Core: Polyester
Cover: Aramid (8mm) Polyester/ Aramid (10mm)
Standard: EN 795 B
EN 566 (10mm)

Braid: 32

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
8	5/16	50.0	3.40	1,800	4,045
10	3/8	72.0	4.80	2,500	5,620

Ocean Dyneema® Loop T

MADE IN

In the tree care segment, the OD Loop with a thimble has already been as successful as a Prusik on the pulleySAVER. It is also available for industrial applications, namely, as an anchor point to EN 795B or as a prusik.

Features

- ✔ High breaking force
- ✔ High abraison resistance
- ✔ Stainless steel thimble
- ✔ Available length: 0.31m

Specifications

Core: Dyneema®
Cover: Polyester/ Aramid
Standard: EN 795 B
ANSI Z133-2012 (Prusik)

Braid: 24

Ø		Weight	Min. breaking strength Free length	
mm	inch	g/piece	daN	lbf
7	9/32	86.0	2,450	5,500

HRC (Therma Shield Prusik)

MADE IN

HRC (Therma Shield Prusik) features a heat-resistant cover made from Technora® and spun Nomex® for extreme heat and abrasion resistance. Therma Shield Prusik has great hand, provides maximum grip, and stays supple in use. A Vectran® core offers the best of high strength and low stretch.

All diameters
White/Brown

Features

- ✔ High melting point
- ✔ No “glazing”
- ✔ Soft, no-slip grip
- ✔ Longer life for greater value

Specifications

Core: Vectran®
Cover: Technora®/ Nomex®

Limited UV-resistance

Braid: 24

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
8	5/16	49.1	3.30	2,670	6,000
10	3/8	74.4	5.00	4,890	11,000
12	1/2	108.6	7.30	6,005	13,500
14	9/16	141.3	9.50	8,450	19,000
16	5/8	156.2	10.50	10,675	24,000

GENERAL PURPOSE ROPES

TEUFELBERGER offers a wide range of general purpose ropes for various applications. Please note that these ropes are not certified for personal protection.

Orion 500

MADE IN

The Polyester "Jack of all Trades". Orion 500 shines in stylish colors! Its 16-plait polyester cover and its 8-plait core ensure good grip and make this rope easy to splice.

Features

- ✔ Allround rope
- ✔ Good grip
- ✔ Easy to splice

Specifications

Core: Polyester
Cover: Polyester
Braid: 16

All diameters

Green 
Navy 
Pink/Black 
Neonyellow/Black 
Neongreen/Black 
Purple/Black 
Black 
Red 

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
2	1/16	3.0	0.20	60	140
3	1/8	6.0	0.40	135	300
4	5/32	12.0	0.81	360	810
5	3/16	19.0	1.28	540	1,215
6	1/4	24.0	1.61	720	1,620
8	5/16	41.0	2.76	1,260	2,835
10	3/8	70.0	4.70	1,800	4,050
12	1/2	89.0	5.98	2,250	5,060

3 Strand Nylon

MADE IN

Premium 3 Strand Nylon gives you the perfect balance of traditional 3-strand construction with a soft free running safety line that will resist jamming and hockling.

Features

- ✔ Perfect for rope grabs, vertical lifelines and lifeline assemblies
- ✔ High strength
- ✔ Good abrasion resistance
- ✔ Easily spliced

Specifications

Material: Nylon
Braid: 3

All diameters

White/Red/Yellow 

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
5	3/16	15.3	1.03	445	1,000
6	1/4	22.5	1.51	820	1,850
8	5/16	34.1	2.29	930	2,100
10	3/8	50.6	3.40	1,620	3,650
11	7/16	74.4	5.00	2,120	4,770
12	1/2	90.8	6.10	2,780	6,250
14	9/16	122.0	8.20	3,110	7,000
16	5/8	151.8	10.20	3,915	8,800
19	3/4	205.3	13.80	6,670	15,000
22	7/8	278.2	18.70	8,315	18,700
25	1	363.0	24.40	10,185	22,900
28	1 1/8	458.2	30.80	13,800	31,025

Sirius Bull Rope

MADE IN

For years now, Sirius Bull Rope has been a must-have for arborists. The transverse stripes in the cover pattern indicate when the rope is overloaded. The various diameter versions can be distinguished easily via differently colored tracer threads. Sirius Bull Rope continues to be a highly abrasion resistant and easy to knot rope offering unmatchable value for money.

Features

- ✔ Overload indication
- ✔ High abraison-resistant
- ✔ Easy to knot

Specifications

Core: Polyester
Cover: Polyester
Standard: Machinery directive 2006/42/EC as amended for arborist rigging

Braid: 32

12mm Red/White

14mm Orange/White

16mm Yellow/White

18mm Green/White

20mm Blue/White

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
12	1/2	103.0	6.95	3,500	7,860
14	9/16	151.0	10.17	5,200	11,680
16	5/8	185.0	12.45	6,300	14,160
18	23/32	227.0	15.30	7,700	17,300
20	25/32	291.0	19.60	8,800	19,800

Endura 12

MADE IN

Endura 12 is manufactured from 100% UHMWPE fiber. The result is a rope that is extremely high strength, very lightweight, and very low stretch. The 12-strand single braid construction is supple, non-rotational, and easily spliced. Endura 12 is ideally suited for wire replacement and where weight is a primary design consideration.

Features

- ✔ Excellent strength-to-weight ratio
- ✔ Excellent wet/dry strength retention
- ✔ Will not absorb water
- ✔ Urethane coated for improved abrasion resistance and color coding
- ✔ Spliceable

Specifications

Material: UHMWPE

Braid: 12

Applications

- ✔ Replacement for steel cable
- ✔ Winch lines
- ✔ Helicopter lifting lines
- ✔ Overhead pulling lines
- ✔ Slings
- ✔ Tug boat tow lines

All diameters

Blue

Red

White

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
2	3/32	3.0	0.20	400	900
3	1/8	7.4	0.50	1,020	2,300
4	5/32	9.7	0.65	1,600	3,600
5	3/16	17.9	1.20	1,980	4,450
6	1/4	25.3	1.70	3,535	7,950
8	5/16	37.9	2.55	5,915	13,300
10	3/8	50.6	3.40	7,470	16,800
11	7/16	62.5	4.20	9,875	22,200
12	1/2	91.5	6.15	14,275	32,100
14	9/16	107.1	7.20	17,570	39,500
16	5/8	150.3	10.10	22,595	50,800
18	3/4	219.3	14.74	25,800	58,000

DuraTEN

MADE IN

DuraTEN is a high strength fiber rope, made of UHMWPE (ultrahigh-molecular-weight-polyethylene) fibers. It offers a high breaking strength, has a high reverse bending fatigue strength, and a long service life. DuraTEN is available without any core or optionally with a PES cover (DuraTEN Pro-P). UHMWPE fibers are distinguished by their extremely high strength in comparison to their weight. Other characteristics of this high-end and very versatile fiber include: maximum abrasion resistance, low elongation, no water absorption, buoyancy and good UV resistance. DuraTEN is especially suitable when used for drum, spill or vehicle winches, overhead line construction or as a mounting rope.

Features

- ✔ 7 times less weight than comparable steel wire ropes
- ✔ High breaking force - higher than that of most steel wire ropes of the same diameter available in the market
- ✔ No corrosion and/or soiling caused by rope grease
- ✔ No danger of injury, easy and quick handling

Specifications

Core: UHMWPE
Cover: Polyester (DuraTen Pro-P)

Braid:
Core: 12

Cover: 32

All diameters

Black

Example color*

* individual colors possible

DuraTEN		DuraTEN Pro-P			DuraTEN/DuraTEN Pro-P	
Ø Rope	Weight	Ø Core	Ø Rope	Weight	Min. breaking strength Free length	
mm	g/m	mm	mm	g/m	daN	lbf
5	15.0	5	7	30.0	2,100	4,720
6	20.0	6	8	40.0	3,500	7,860
7	27.0	7	9	56.0	4,300	9,665
8	34.0	8	10	65.0	5,500	12,360
9	44.0	9	11	78.0	7,200	16,185
10	54.0	10	12	88.0	8,500	19,105

HyperTEN

MADE IN

HyperTEN is a stable high strength fiber rope featuring extremely low stretch. It consists of UHMWPE fibers and can be fabricated without cover or with a PES cover or UHMWPE cover. An optimized rope design combined with thermal stretching guarantees a perfect utilization of the available fiber characteristics as well as a closed rope structure that is extremely compact and stable. Supreme breaking forces exceeding those of a steel wire rope with corresponding abrasion resistance usually permit a one to one substitution at the same diameter (incl. protective cover!) - at only 1/7 of the weight. With these characteristics HyperTEN is the right rope for overhead line construction or motor winches.

Features

- ✔ 7 times less weight than comparable steel wire ropes
- ✔ Extremely high breaking force - higher than that of most steel wire ropes of the same diameter available in the market
- ✔ No corrosion and/or soiling caused by rope grease
- ✔ Reduced danger of injury, easy and quick handling
- ✔ Very low initial and working stretch (already eliminated during production)

Specifications

Core: UHMWPE
Cover: Polyester (HyperTEN Pro-P) UHMWPE (HyperTEN Pro-U)

Braid:
Core: 12

Cover: 32

All diameters

Grey

Example color*

* individual colors possible

HyperTEN		HyperTEN Pro-P			HyperTEN Pro-U			HyperTEN / HyperTEN Pro-P/U	
Ø Rope	Weight	Ø Core	Ø Rope	Weight	Ø Core	Ø Rope	Weight	Min. breaking strength Free length	
mm	g/m	mm	mm	g/m	mm	mm	g/m	daN	lfb
3	9.0	3	5	20.0	3	5	15.0	2,100	4,720
5	19.0	5	7	42.0	5	7	31.0	4,000	8,990
6	26.0	6	8	57.0	6	8	44.0	5,000	11,240
7	36.0	7	9	77.0	7	9	58.0	7,000	15,735
8	49.0	8	10	98.0	8	10	72.0	9,000	20,230
9	60.0	9	11	109.0	9	11	84.0	9,400	21,130
10	64.0	10	12	127.0	10	12	96.0	11,500	25,850

© Knut Foppe

Endura Braid

MADE IN

Endura Braid is a doublebraid with a very high strength, extremely low stretch HMPE core and a durable polyester cover. Higher strength-to-diameter ratio enables smaller diameters to be put into service which can be advantageous when winch drum/take up length is a limiting factor. Eyes can be spliced on one or both ends and are available soft or with your choice of thimbles. We offer galvanized, heavy duty galvanized, bronze, and stainless steel thimbles.

Features

- ✔ Factory spliced eyes
- ✔ Optional urethane coating can be applied to entire assembly or eyes only

Specifications

Core: HMPE
Cover: Polyester

Braid: 24

All diameters

Black

White

Solid Red

Solid Green

Solid Blue

Red Fleck

Blue Fleck

Green Fleck

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
4	5/32	12.6	0.85	710	1,600
5	3/16	16.4	1.10	1,245	2,800
6	1/4	26.8	1.80	1,865	4,200
8	5/16	44.6	3.00	3,110	7,000
10	3/8	56.5	3.80	3,955	8,900
11	7/16	80.3	5.40	5,735	12,900
12	1/2	98.2	6.60	8,940	20,100
14	9/16	128.0	8.60	10,230	23,000
16	5/8	175.6	11.80	12,011	27,000
19	3/4	235.1	15.80	15,125	34,000
22	7/8	311.0	20.90	21,575	48,500
25	1	403.2	27.10	25,800	58,000
28	1 1/8	511.8	34.40	38,255	86,000
32	1 1/4	586.8	39.44	37,811	85,000

Sta-Set

MADE IN

The industry leading polyester double braid. Low stretch and durable line ideal for all applications requiring control lines, positioning, lifting, or lowering.

Features

- ✔ Low stretch
- ✔ Strong
- ✔ Flexible
- ✔ Durable
- ✔ Long wearing

Specifications

Core: Polyester
Cover: Polyester

Braid: 24

Applications

- ✔ Lifting lines
- ✔ Lowering lines
- ✔ Multi-purpose
- ✔ Winch Lines

All diameters

White

Green Fleck

Blue Fleck

Red Fleck

Green

Red

Blue

Black

Ø		Weight		Min. breaking 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	177.0	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	1 1/8	592.1	39.80	16,680	37,500
32	1 1/4	732.0	49.20	16,945	38,100

Safety Pro-12

MADE IN

Safety Pro-12 has a unique design that results in a rope that is easy to knot yet resists flattening which is common on other 12-strand climbing ropes. The difference is in the construction. Each of the twelve strands in Safety Pro-12 consists of a core of lightweight polyolefin surrounded by tough, durable polyester. The twelve strands are then braided around a bundle of our blue nylon core yarns. The result is a hybrid 12-strand kernmantle design that strikes the perfect balance between firm and supple. Safety Pro-12 has minimal bounce so there is little wasted energy when climbing. Its high strength and outstanding abrasion resistance also make Safety Pro-12 a great rigging rope.

Features

- ✔ Polyester & polyolefin strands surrounding a core of tightly bundled nylon
- ✔ High twist levels in the strands increase abrasion
- ✔ Resistance and lengthens service life
- ✔ Stays firm and round, yet is supple for excellent knot holding properties
- ✔ Low elongation
- ✔ Very little bounce

Specifications

Core: Nylon
Cover: Polyester/ Polyoefin

Braid: 12

12mm

White

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
12	1/2	113.1	7.60	3,000	6,750

V 12

MADE IN

12-strand single braid of 100% Vectran®. Highest strength, lowest stretch and creep of any other 12-strand. V-12 is treated with a proprietary urethane coating for improved abrasion resistance.

Features

- ✔ Good fatigue resistance
- ✔ Easily spliced
- ✔ No creep
- ✔ High temperature resistance

Specifications

Material: Vectran®

Braid: 12

All diameters

Gold Clear 

Red 

Green 

Blue 

Grey 

Ø		Weight		Min. breaking strength Free length	
mm	inch	g/m	lbs/100'	daN	lbf
3	1/8	6.8	0.46	710	1,600
4	5/32	11.9	0.80	1,245	2,800
5	3/16	17.9	1.20	1,555	3,500
6	1/4	22.3	1.50	2,580	5,800
8	5/16	49.1	3.30	4,225	9,500
10	3/8	69.9	4.70	6,495	14,600
11	7/16	98.2	6.60	10,450	23,500
12	1/2	111.6	7.50	11,565	26,000
13	19/32	125.0	8.40	12,510	28,130
14	9/16	145.8	9.80	14,145	31,800
16	5/8	183.0	12.30	17,125	38,500
18	23/32	245.5	16.50	27,645	62,150
20	13/16	290.1	19.50	30,780	69,200

Micro Rappel Kit

MADE IN

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. 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

- ✔ Two-mode harness system
- ✔ Lightweight
- ✔ Compact

Specifications

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

ROPE BAGS

ropeBUCKET / kitBAG

Keep everything in perfect order and within reach! With TEUFELBERGER´s unique transport and storage bags.
Made of the material of the treeMOTION harness, they are

- ✔ Extremely robust
- ✔ Stable
- ✔ Breathable
- ✔ Permeable to moisture and water
- ✔ Provided with a system of perforations for the easy and fast attachment of frequently needed work equipment
- ✔ Long-living, with replaceable rope parts

The bags come in four different sizes designed for different combinations of gear. A convenient system of perforations allows users to arrange their equipment systematically according to their own preferences. As a set, the bags can be stacked conveniently inside one another and thus take up little storage space.

ropeBUCKET 80l - The biggest of the bags, with a storage volume of 80 liters. Shoulder straps and a comfort handle make it very easy to carry.

ropeBUCKET 50l - This bag also comes with shoulder straps and the comfort handle, which make it easy to carry. It fits into the 80l bag.

kitBAG 30l - This bag has the same size bottom as ropeBUCKET 50l. However, stacked on top of the 50l model, it fits into the 80l bag.

kitBAG 25l - This bag fits into any of the 30l, 50l and 80l bags.

The following parts of bags can be replaced:
- ✔ Rope red/gray
- ✔ Front and rear bottom edges
- ✔ Straps for back and shoulder
- ✔ Carabiners

Load carrying capacity of the bags: 220 lbs
Do not use for lifting loads and people.

TECH TIPS

PLATINUM®

PLATINUM® stands for an innovative breed of safety ropes made with cutting-edge technology that offer the ultimate in safety & durability.

In contrast to conventional kernmantle ropes, ropes with the PLATINUM® technology feature a permanent mechanical interconnection between the rope's core and its cover. Core and cover yarns are interlaced with one another at regular intervals, which keeps any core/cover displacement from happening. Compared to chemical solutions, like glue, the PLATINUM® technology is mechanical and therefore lasts forever. Thus, the PLATINUM® technology enables the excellent transmission of forces from the cover to the core region and, in this way, prevents any overloading of the cover.

In addition, PLATINUM® also includes the mechanical interconnection of the various twisted cores with one another to a dimensionally stable, compact core bundle. This optimizes the distribution of the load among the various cores and results in an equally dimensionally stable and compact rope with good handling. Due to their dimensional stability and the compact cover braid PLATINUM® ropes feature low elongation and high abrasion resistance.

These characteristics make PLATINUM® ropes an especially safe choice in abrasive and sharp-edged surroundings. In case the cover gets cut by a sharp edge, the core and the cover remain bonded together and the cover doesn't slip. Moreover, the Polyester/Polyamide version of PLATINUM® advantageous chemical and physical properties like UV resistance and seawater resistance.

PLATINUM®- The plus in safety & security.

Critical situations

PLATINUM® ensures higher safety and better handling. A direct comparison will make these advantages more clear:

Coreless end of cover

Conventional Rope

– A surplus length of the cover results in a coreless rope section
– This may be extremely dangerous for inexperienced climbers

PLATINUM® Rope

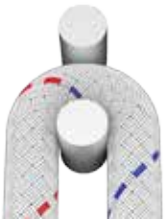
✔ PLATINUM® fully avoids displacement at the end of the rope and gurantees greater safety and comfort.

Pushing together of cover and core

Conventional Rope

– A cover that has been pushed together on the core will impair the use of climbing devices
– Danger! Climbers are no longer able to rappel down by themselves

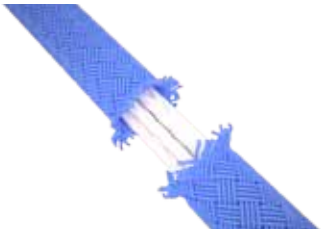
PLATINUM® Rope



✔ PLATINUM® prevents the cover from being pushed together on the core and ensures greater safety.

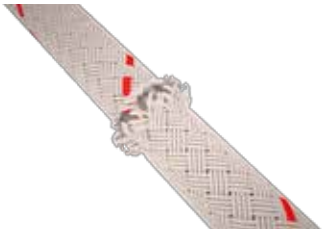
Sheath break

Conventional Rope



– If the sheath is cut by abrasion over an edge, it slides down and gathers over some meters or completely comes off. It then becomes very difficult or impossible to pass this section, whether ascending or descending.

PLATINUM® Rope



✔ If the sheath is cut by abrasion over an edge, the core and sheath remain bonded together due to the mechanical connection between cover and core.

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

Multifilaments

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

Characteristics:
✔ High flexibility
✔ High tensile strength

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

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)
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 nylon ropes and therefore only to a limited extent suitable for types of use involving high impact forces.

NY (Nylon) / PA (Polyamide)
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.

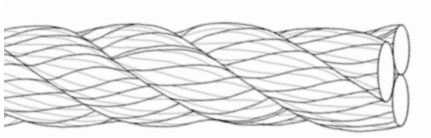
PP (Polypropylene)
Due to its limited technical characteristics, polypropylene is only used for simple applications. PP is very light and even buoyant in water. Its abrasion resistance and temperature resistance are lower than those of most other fibers.

Technical properties of available raw materials

	PBO Polybenzoxazoles, Crystal Polymer	UHMWPE Ultra High Molecular Weight Polyethylene	Aramid Aromatic Nylon	LCP Liquid Crystal Polymer	PES Polyester	PA Polyamide	PP Polypropylene
Typical Marketing Term	Zylon®	Dyneema®	Technora®/ Twaron®/ Kevlar®	Vectran®	PES	Nylon	PP
Strength (daN/mm²)	574	345	300	300	110	81	52
Specific weight (g/cm³)	1.54	0.97	1.40	1.41	1.40	1.14	0.91
Water intake (%)	0.5 – 2.0	0	2	<0.1	<0.5	4 – 6	0
UV-resistance	low	good	limited	limited	very well	average	good
Elongation (%)	2.5 – 3.5	3.5	3.5	3.5	10 – 16	20 – 25	18 – 22
Abrasion resistance (dry)	good	very good	very good	very good	good	very good	sufficient
Abrasion resistance (wet)	good	very good	very good	very good	very good	good	good
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

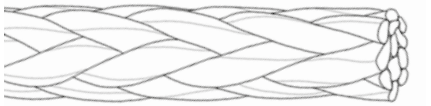
ROPE CONSTRUCTIONS

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.



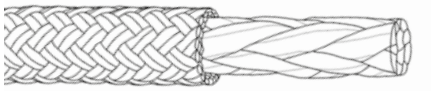
3-Strand

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.



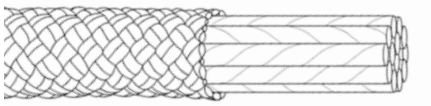
Single braid

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.

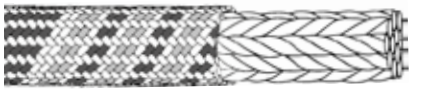


Kernmantle

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.

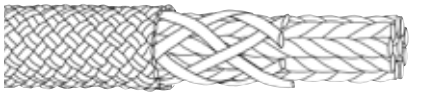
PLATINUM®

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 results in a compact rope with good handling and higher safety, especially when used in harsh environments.



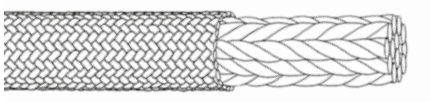
Bi-Pattern

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 points, Bi-Patterns are the safest form of mid-point marking available for climbing ropes.



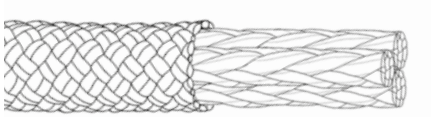
Str8 Jacket Core

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 (one over one) or weave. This design results in a cover/sheath that has a smaller profile in cross-section than plain pattern sheaths – the more traditional-looking climbing rope cover/sheath. 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.

COATINGS AND SPECIAL TREATMENTS

Technique

S.Y.I.S. – Single Yarn Impregnation System
Before braiding the rope, all single yarns are being dipped and fixed. Added color pigments allow to apply any desired color.

Rope Coating
After braiding the rope, the complete construction is dipped in a calibrated procedure. Again, a final fixing step will be carried out to ensure that applied substances remain attached to the rope's fibers as long as possible.

Coating materials

We use a huge variety of compositions to influence specific rope properties in a carefully controlled manner. For this purpose, we rely on the following substances:

- ✔ Polyurethane
- ✔ Silicones
- ✔ Wax
- ✔ Acrylates
- ✔ PTFE

Rope properties

These are some of the properties that we are able to improve with coatings and special treatments:

- ✔ High yarn on yarn abrasion resistance
- ✔ High yarn on metal abrasion resistance
- ✔ UV-resistance
- ✔ Water repellence
- ✔ Mold resistance
- ✔ Keeping color
- ✔ Traction
- ✔ Fire retardance
- ✔ Improved CBOS fatigue (cyclic bend-over-sheaves)

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.

TERMINATIONS

Splice

A splice is obtainable for all single and double braids.

Thimble

Spliced eyes with thimbles are the most general kind of terminations. Extremely versatile and robust, thimbles are the first choice for numerous applications.

End bond

Fitting the end of a fiber rope with a socketing cone is a high tech solution offering both, a maximum of tensile strength and unlimited flexibility in designing the metal end bond. The socketing cone itself features a thread to which any end termination can be connected.

Stitched terminations

TEUFELBERGER cuts the rope to the required length and makes stitched terminations meeting individual requirements. By building on decades of sewing experience and a great wealth of expertise in this field, we succeed in maintaining breaking forces at a very high level.

Tapered end

Rope and cord which is provided as a component for various pieces of machinery or appliances is often required to be prepared for a final assembly process. Tapered ends are important to facilitate easy mounting procedures.

[slaice]®

This unique combination offers its users several significant advantages over conventional splices or stitchings:

Flexible: The end of [slaice]® is about as flexible as a rope.

Slim: In the case of [slaice]®, a thickened portion which standardally occurs on spliced ropes is practically non-existent. The design of this innovative termination hardly exceeds the rope's diameter. The seam is made using TEUFELBERGER's standard resin-based seam protector technology. The result of all these components is an easier-to-handle termination.

Light: [slaice]® technology helps achieve a weight reduction, as the amount of material is reduced compared to a conventional splice.

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 thermal loads)
- ✔ Contact and friction heat
- ✔ End of permitted maximum service life
- ✔ If exceeded fall rating

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 rear rates and reduced strength. Eliminating twist from a rope improves its handling comfort and prolongs its service life. Therefore, the rope must be unrcoiled 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.

Rope Storage and Care
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

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.

TEUFELBERGER Fiber Rope GmbH
Vogelweiderstraße 50
4600 Wels, Austria
Telephone: +43 (0) 7242 413-0
Fax: +43 (0) 7242 413 169
fiberrope@teufelberger.com
www.teufelberger.com

TEUFELBERGER Fiber Rope Corp.
848 Airport Road
Fall River MA 02720, USA
Telephone: 508 678 8200
Fax: 508 679 2363
fiberrope@teufelberger.com
www.teufelberger.com

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