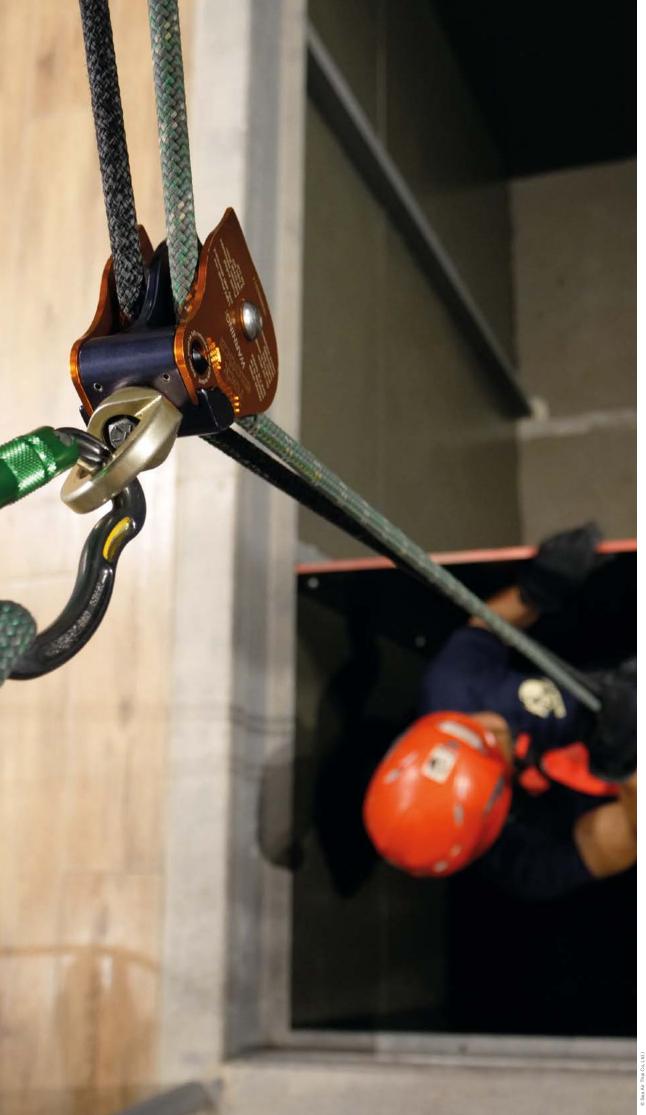


SAFETY AND RESCUE

Products



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The technical specifications are based on the units system used in the country of manufacture. Additional specifications were converted and rounded.

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 PPE-Regulation (EU) 2016/425, unless the products are clearly identified as suitable for such purposes under relevant standards. Customers shall make sure that persons using the products are familiar with their correct use and the necessary safety precautions. Keep in mind that any of these products can cause damage if incorrectly used, stored, cleaned, or overloaded. Check national safety regulations, industry recommendations, and standards for locally applicable requirements (e.g. choice of safety factors).Tested values with sewn termination are based on the seam pattern certified by TEUFELBERGER.

PLATINUM[®], MAXIM[®], KM III[®], KM III[®] Max, Sta-Set[®], Endura 12[®], Endura Braid[®], STS - Stronger than Steel[®], TEUFELBERGER[®] and 拖飞宝[®] are internationally registered trademarks of TEUFEL-BERGER Group. Further referenced international trademarks: Technora[®] by Teijin, Nomex[®] by Dupont, Dyneema[®] by DSM, Vectran[®] by Hoechst Celanese. Subject to technical modifications, typesetting and printing errors.

ONE COMPANY – INFINITE POSSIBILITIES

When it comes to your safety, we leave nothing to chance. As the largest manufacturer of life safety ropes worldwide, we are your trusted partner for safety products that are perfectly tailored for working at height. In addition, we offer services like our PPE Management App and individual length service that support your business and make your life easier. TEUFELBERGER keeps you safe – always!

	Global competence with facilities in Europe, USA and Thailand												
		Trusted partr	ner for interr	national OE	EMs								
		Extens	sive product	oortfolio									
Static ropes		eat-resistant pes	Throwlines	General purpose ro	Techi opes laces		Accessories						
	Cor	nprehensive p	oroduct dev	elopment p	orocess								
Fiber research	Prototype development	Internal inspection	·		Practical field testing	Certific	cation						

TEUFELBERGER is the largest manufacturer of life safety ropes worldwide and specializes in ropes for workplace safety, rope access, emergency response and all segments involving working with a risk of falls from 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 footwear as well as customized production of safety 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.

Our service for you

Our new PPE Management App allows to manage, inspect and control your equipment with just a few clicks. Extensive technical information, special content and safety notifications make the App a very useful tool for your business. In addition, we offer a cut program for selected products. For the most common static EN 1891 A ropes, you can order products cut to individual length for your special request.

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-tailored solutions and implements them in the best possible way.

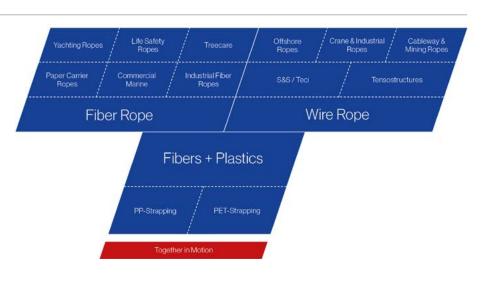
Whatever your requirements are, we are the right partner for you! Trusted partner for international OEMs Global competence with facilities in Europe, USA and Thailand

EXPERTISE FROM MORE THAN 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.

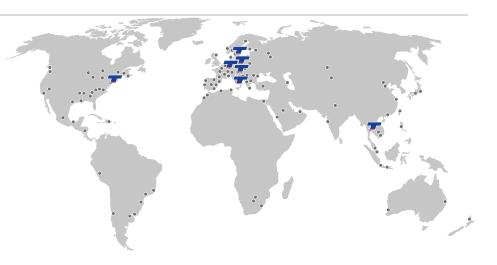
Great diversity

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.

PPE MANAGEMENT IN YOUR POCKET

GET APP HIGH!

TEUFELBERGER and Papertrail joined forces to make your daily life easier and your job more efficient. The PPE management software allows you to add new products in seconds, manage all your equipment in one place and inspect and control your inventory with just a few clicks. With Papertrail, you can transform the way you manage your PPE equipment, save time and make and your team more efficient.

date. Thanks to the seamless import functionality, you can have your inspections, in the palm of your hand. TEUFELBERGER equipment fully populated in your Papertrail account

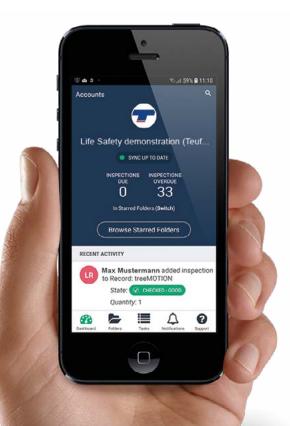
The Papertrail product directory takes its data directly from in seconds. Access your account on a computer, or through the mobile TEUFELBERGER so you know it's accurate, complete and always up to app, and you'll have a complete history of all your equipment, and its



"At TEUFELBERGER, we provide PPE for the most demanding industries and applications on the planet. Maintaining these products in top condition is of critical importance for our customers and is now a lot easier thanks to our new app." Martin Hattinger, Head of Business Unit Life Safety

Your benefits compared to conventional Safety Management Systems

- Time saving: No more paper forms or manual spreadsheets, our new app lets you conduct your inspections and record the data in seconds.
- Simple compliance: With a full inspection history for every piece of equipment, our new app makes proving compliance with safety regulations simple.
- Mobile efficiency: Our new app lets you and your team spend more V time in the field, and less in the office. Conduct your inspections on the move, and manage your inspection programme from wherever you are.



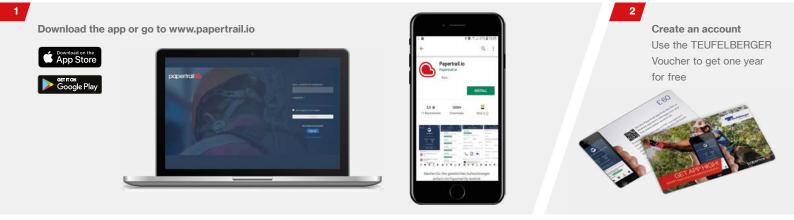
Feature	Paper Records	Spreadsheet	Papertrail
Fireproof	×	×	V
Waterproof	×	×	V
Easy to use	×	 ✓ 	V
Environmentally friendly	×	 ✓ 	V
Mobile	v	×	V
100% Secure	×	×	v
100% Accountability	×	×	V
Never miss an inspection	×	×	V
Equipment history at a gance	×	×	V
Designed for outdoors	×	×	V
Expert training and support	×	×	v

Experience the easy way to manage your PPE and many other unique benefits for TEUFELBERGER customers. JUST FOR YOU!

Inspection checklists

- Equipment care guidelines
- Easy product entry through search (scan coming soon)
- ✓ All TEUFELBERGER products available in Papertrail's PPE Directory
- ✓ 12 months free subsciption for TEUFELBERGER customers
- ✓ Useable for all brands

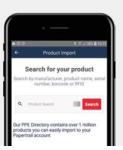
Get APP HIGH NOW!



3

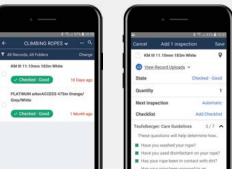
Import your products

- a. Search function
- b. Scan function (coming soon)



4

Inspect your equipment using the checklists



5 Watch the full video explanation here:





STATIC ROPES

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



Individual lenght: Ropes marked with this icon can be cut to individual length with no additional charge. Models might be changed based on demand.

MTO Make-to-order: Ropes marked with this icon are not in stock. They are only produced on order. Longer leadtime will apply.

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.

	Features	Specifi	cations	
19.5mm	 Low elongation Good resistance to acids Seawater resistance Slight water absorption or wet shrinkage Good visibility Excellent UV protection Certified with PETZL ASAP (B7, B71AAA, B071AA00), only with ASAP Sorber 20+40 or Absorbica according to EN 353-2 Certified with PETZL ASAP LOCK (B071BAA00) in use with ASAP'SORBER AXESS according to EN 353-2 	Core: Cover: Standard:	Nylon Polyester EN 1891 A NFPA 1983	Braid: 32
Orange/Grey/White				

CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. brea Free leng	-	-	ıre 8 knot	Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
10.5	13/32	78.0	5.24	2.0	2.0	2,800	6,290	1,500	3,370	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

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.



Features

- Good resistance to acids
- Stays flexible in wet conditions
- Certified with PETZL ASAP (B7, B71AAA, B071AA00), only with ASAP Sorber 20+40 or Absorbica according to EN 353-2
- Certified with PETZL ASAP LOCK (B071BAA00) in use with ASAP'SORBER AXESS according to

Specifications

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



MADE IN

6 CE test results per EN 1891

Black/Grev

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. breaking strength Free length With figure 8 knot			re 8 knot	Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
10.5	13/32	78.0	5.24	2.0	2.0	2,800	6,290	1,500	3,370	50.5

NFPA test results

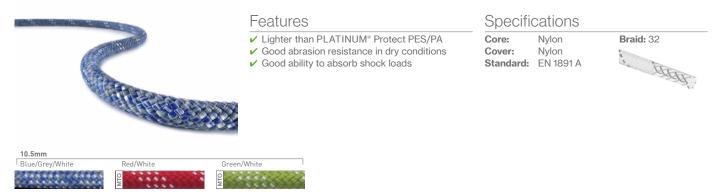
10.5mm Green/Grey/White

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.



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	4.84	4.0	3.0	2,800	6,290	1,800	4,045	2,200	4,945	46.0

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 elongationReduced kinking in case of long abseiling
- Reduced kinking in case of long abselling distances
- ✓ Excellent UV resistance

Specifications

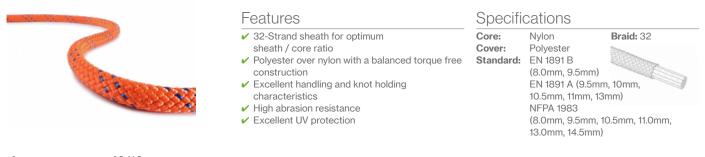
Core: Nylon Cover: Polyester Standard: EN 1891 A



Ø		Weight		Shrinkage	Elongation	Min. breaking strength				Cover
					50-150 kg	Free leng	th	With figu	ire 8 knot	
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
11	7/16	86.0	5.78	2.0	2.0	3,400	7,640	1,700	3,820	47.0

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.





CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. brea Free leng	aking stren Jth	gth Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	9%
8.0	5/16	59.0	4.00	< 5.0	3,0	2,275	5,120	1,895	4,260	52.0
9.5	3/8	65.0	4.40	< 5.0	1,8	2,790	6,275	1,895	4,260	47.0
10.0	N/A	65.0	4.40	< 5.0	1,7	2,790	6,275	N/A	N/A	52.0
10.5	N/A	84.0	5.65	< 5.0	1,6	3,335	7,500	N/A	N/A	48.0
11.0	7/16	91.0	6.12	< 5.0	1,8	3,765	8,465	3,085	6,935	45.0
13.0	1/2	117.0	7.90	< 5.0	1,8	5,015	11,275	3,680	8,265	47.0
14.5	5/8	152.0	10.20	< 5.0	1,5	5,815	13,075	3,925	8,830	47.0

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	4.3	7.6	11.3	Escape rope
9.5	3/8	3.5	6.2	9.2	Technical use
10.0	N/A	1.8	4.2	6.7	Technical use
10.5	N/A	3.9	7.0	9.7	Technical use
11.0	7/16	2.4	4.2	6.3	Technical use
13.0	1/2	2.8	4.5	7.0	General use
14.5	5/8	2.5	3.4	5.2	General use

KM III[®] Max



KM III[®] Max has a well balanced, low rotation, unique twill design. It is a perfect static rope for work placement and smooth descents. Our KM III[®] Max features our TPT construction that results in a smoother cover reducing drag and creating a 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.





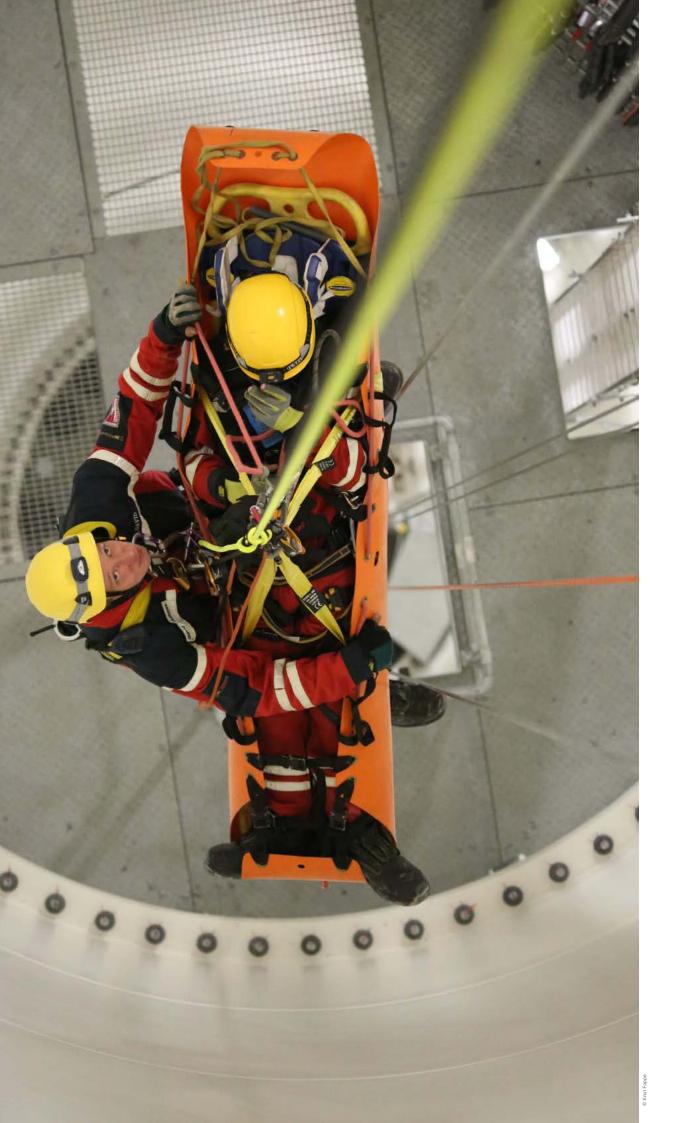
CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. bre Free leng	aking stren gth	gth Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
9.5	3/8	65.0	4.40	< 5.0	1.8	2,790	6,275	1,895	4,260	47.0
11.0	7/16	91.0	6.12	< 5.0	1.8	3,765	8,465	3,085	6,935	45.0
13.0	1/2	117.0	7.80	< 5.0	1.8	5,015	11,275	3,680	8,265	47.0

NFPA test results

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





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	Specifi	cations	
	 Above average breaking strength Exceptionally low stretch Excellent UV stability Good resistance to acids Certified with PETZL ASAP international version (B071AA00) in use with ASAP'Sorber 20+40 cm international version according to EN 353-2 Certified with PETZL ASAP LOCK (B071BAA00) in use with ASAP'Sorber AXESS according to EN 353-2 	Core: Cover: Standard:	Nylon Polyester EN 1891 A	Braid: 32
11mm White/Black Yellow	Black Red			

CE test results per EN 1891

Ø		Weight		Elongation	Shrinkage	Min. brea	king stre	•		Cover
				50-150 kg		Free leng	th	With figu	re 8 knot	
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	<u>%</u>
11.0	7/16	88.0	5.90	2.0	2.0	4,000	8,990	1,800	4,045	40.0

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

EN 1891 A

Standard:





Ø		Weight		Elongation 50-150 kg	Shrinkage	Min. brea Free leng	0	0	re 8 knot	Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	0%
11.0	7/16	82.0	5.50	2.5	2.5	3,500	7,865	2,000	4,495	36.0

Patron PLUS

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.



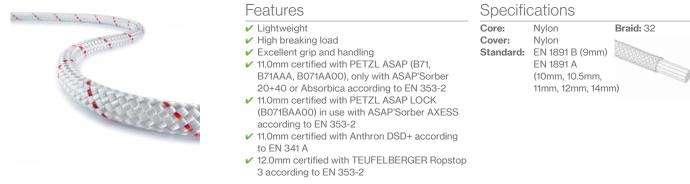
CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. bre Free leng	a king stren gth	-	ıre 8 knot	Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
10.0	3/8	66.0	4.44	3.0	3.0	2,900	6,515	1,600	3,595	2,500	5,620	38.0
10.5	13/32	72.0	4.85	4.0	3.0	3,200	7,190	1,800	4,045	2,600	5,845	37.0
11.0	7/16	75.0	5.04	4.0	3.0	3,300	7,415	1,900	4,270	2,700	6,065	36.0

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.





Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. bre Free leng	aking strer gth	•	ıre 8 knot	Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
9.0	23/64	51.0	3.43	3.0	3.0	2,000	4,495	1,300	2,920	-	-	41.0
10.0	3/8	66.0	4.44	3.0	3.0	2,900	6,515	1,600	3,595	2,500	5,620	38.0
10.5	13/32	72.0	4.84	4.0	3.0	3,200	7,190	1,800	4,045	2,600	5,845	37.0
11.0	7/16	75.0	5.04	4.0	3.0	3,300	7,415	1,800	4,045	2,700	6,070	36.0
12.0	1/2	92.3	6.19	4.0	3.0	3,800	8,540	2,400	5,395	3,400	7,640	36.0
14.0	9/16	123.0	8.20	4.0	3.0	4,200	9,440	2,800	6,290	3,800	8,540	41.0

Chameleon





The new Chameleon is a robust, all-round rope with an ecological footprint. For its production, high-quality yarns left over during color change in the extrusion process is used. Therefore the rope's color is flexible and changes based on the raw material provided. This upcycling helps to reduce waste in the fiber production process. The Chameleon range offers the same great handling and strength you would expect from TEUFELBERGER ropes.



Features

- ✓ All-round rope
- ✓ Robust and long-lasting
- Ecological footprint
- ✓ Flexible colors

Specifications

Core: Nylon Cover: Nylon Standard: EN 1891 A



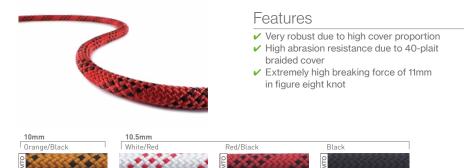
All diameters Example color

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. brea Free leng	iking stren ith	gth With figu	re 8 knot	Sewn		Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
10.5	13/32	72.0	4.84	4.0	3.0	3,200	7,190	1,800	4,045	2,600	5,840	37.0
11.0	7/16	75.0	5.04	4.0	3.0	3,300	7,415	1,800	4,045	2,700	6,065	36.0





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 cover of polyamide offers high abrasion resistance. Tutor XG is certified to EN 1891 A.



Specifications

Core: Nylon Cover: Nylon Standard: EN 1891 A



Braid:

CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. brea Free leng	king streng th	gth With figur	e 8 knot	Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	<u>%</u>
10.0	3/8	61.0	4.10	3.0	3.0	2,600	5,840	1,600	3,595	40.0
10.5	13/32	70.5	4.70	3.0	3.0	3,200	7,190	1,800	4,045	36.0

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



9.6mm White/Orange/Grey

Ø		Weight		Shrinkage	Elongation	Min. brea	king stren	gth				Cover
					50-150 kg	Free leng	Ith	With figu	re 8 knot	Sewn		
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
9.6	3/8	61.0	4.10	3.0	4.0	2,500	5,620	1,600	3,595	2,000	4,495	40.0

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.



Ø		Weight		Min. bre Free len	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
8.0	5/16	39.6	2.70	825	1,860
10.0	3/8	62.5	4.20	1,290	2,900
11.0	7/16	77.4	5.20	1,775	4,000
12.0	1/2	99.7	6.70	2,265	5,100
16.0	5/8	154.7	10.40	3,780	8,500
19.0	3/4	215.7	14.50	4,490	10,100
22.0	7/8	266.3	17.90	5,780	13,000
25.0	1	313.9	21.10	6,895	15,500
28.0	1 1/8	447.8	30.10	9,340	21,000

New England Multiline

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.



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



MADE IN

Ø		Weight		Min. break Free lengt	king strength th		
mm	inch	g/m	lbs/100'	daN	lbf		
8.0	⁵ / ₁₆	39.6	2.70	825	1,860		
10.0	3/8	62.5	4.20	1,290	2,900		
11.0	7/16	77.4	5.20	1,775	4,000		
12.0	1/2	99.7	6.70	2,265	5,100		
16.0	5/8	154.7	10.40	3,780	8,500		
19.0	3/4	215.7	14.50	4,490	10,100		
22.0	7/8	266.3	17.90	5,780	13,000		
25.0	1	313.9	21.10	6,895	15,500		
28.0	11/8	447.8	30.10	9,340	21,000		



MADE IN

NYTech is a 3-strand left handed lay rope made of a Nylon/Technora[®] blend. This life safety certified rope is similar in construction to the rope used for decades in the Tri-State area and by greater New York City Fire Departments. Due to the portion of Technora[®], this enhanced version provides for far greater heat and cut resistance. It is perfectly suited for a longer exposure time when Fire Fighters need it most.

Ch2FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	Features	Specifications				
AN PERSONAL AND	 ✓ Left hand lay rope ✓ Nylon/Technora[®] blend 		Nylon/Technora® NFPA 1983	Braid: 3		
ARR AND	 Enhanced heat resistance Excellent cut resistance 					



CE test results per EN 1891

Ø			Min. breaking strength Free length						
mm	inch	g/m	lbs/100'	daN	lbf				
14.0	9/16	141.3	9.50	4,000	9,000				

NFPA test results

Ø		Elongation			Approved class
mm	inch	at 1.35 kN (%)	at 2.7 kN (%)	at 4.4 kN (%)	
14.0	9/16	3.2	6.0	8.0	Laid Lifesaving Rope

Braided Safety Blue

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.

		Feature	es	Specifi	cations	
	Seconomic Second	 ✓ Plied str resistan ✓ Coating 	with a protective finish improves y and grip	Core: Cover: Standard:	Nylon Polyester EN 1891 A, ANSI Z133	Braid: 16
12.7mm						
HiVee	UltraVee	TVee	White			

Ø		Weight		Shrinkage	Elongation		Min. breaking strength Free length With figure 8 knot			Cover
mm	inch	g/m	lbs/100'	%	50-150 kg	daN	lbf	daN	lbf	٦ [%
12.7	1/2	105.6	7.10	< 5.0	3.0	2,580	5,800	2,350	5,290	82.0

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.

the second s	Features	Specifications				
	 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 	Core: Cover: Standard:	Nylon Polyester EN 1891 A, ANSI Z133	Braid: 24		
_11.5mm						

Ash	Orange/Blue	Green/Blue	Orange/Yellow	Green/Black/White
allithe mill	*******	000000000	1.	wether the sevel

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	%
11.5	7/16	94.0	6.30	< 5.0	2.2	2,445	5,500	2,185	4,920	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
- Resists nationing and grazing on the ropes surface
 Low stretch
- ✓ Durable polyester cover

Specifications

Core: Nylon Cover: Polyester Standard: EN 1891 A, ANSI Z133



11mm Fly Dragonfly Firefly

ø		Weight		Shrinkage	Elongation	Min. breaking strength						Cover
					50-150 kg	Free length With figure 8 knot Sewn						
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	daN	lbf	%
11.0	7/16	87.0	5.90	< 5.0	1.6	2,685	6,035	1,500	3,370	1,500	3,370	56.0



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.

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.

AAAAA		Features		Specifications			
	- AL	 Select mod Designed for 	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			Nylon Nylon EN 892 UIAA 101	Braid: 48
10.5mm			11.0mm				
Canyon STD-DRY	Technicolor STD-DRY	Green/Yellow STD-DRY	Purple Haze STD-DRY	Amber 2x-DRY	Sp	ring 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.
10.5	74.4	5.00	29.0	4.8	9.4	28.0	10	12
11.0	81.8	5.50	29.0	4.8	9.6	29.0	13	15

Smaller diameter available, see www.maximropes.com for a complete list of MAXIM® Dynamic Ropes

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	Specifi	cations	
		 Compact 40- or 48-plait cover Very grippy handling High abrasion resistance Good for cow's tails 	Core: Cover: Standard:	Nylon Nylon EN 892	Braid: 40 (10mm) 48 (11,3mm)
10mm Red/Black	Black	11.3mm Blue/Black			

Ø	Weight		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	31.0	6.5	9.0	39.0	7	9		
11.3	82.0	5.50	30.0	6.0	9.0	36.0	16	18		





THROW LINES

It is their excellent handling characteristics that make throw lines 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.

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.

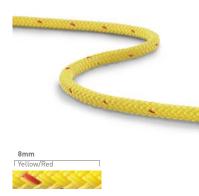


Ø		Weight		Min. breakin Free length	ng strength	
mm	inch	g/m	lbs/100'	daN	lbf	
11.0	7/16	46.1	3.10	1,335	3,000	

NFPA-Throw Line

floats indefinitely. Certified to NFPA 1983:2012 for throwlines.

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



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



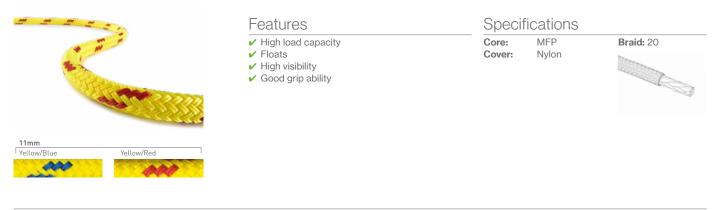
MADE IN

Ø		Weight	ight Min. breaking Free length			
mm	inch	g/m	lbs/100'	daN	lbf	
8.0	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.



Ø			Min. breaking Free length		
mm	inch	g/m	lbs/100'	daN	lbf
11.0	7/16	78.9	5.30	1,645	3,700

Polygrip Throwline

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.



Features

- Excellent floating characteristics
- Very good grip

Specifications

Core:	Nylon
Cover:	Polypropylene
Standard:	NFPA 1983



MADE IN



Ø		Weight		Min. breaking Free length	ng strength
mm	inch	g/m	lbs/100'	daN	lbf
9.1	23/64	43.1	2.90	1,375	3,100



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.

Aramid Escape

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.

	Features	Specifications
	 Especially designed for firefighters Packs tightly into a compact bag High decomposition point and durability due to Technora® fiber 	Core: Technora® Braid: 20 Cover: Technora® Standard: NFPA 1983 Limited UV resistance
7.5mm Tan		

Ø		Weight		Min. brea Free leng	king strength th	Cover
mm	inch	g/m	lbs/100'	daN	lbf	۲ <u>%</u>
7.5	9/32	46.1	3.10	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	⁹ /32	1.1	1.4	1.6	Escape rope

Yellowstone

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.



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 Limited UV resistance



MADE IN

Ø		Weight		Min. breaking strength Free length		Cover
mm	inch	g/m	lbs/100'	daN	lbf	٢%
13.0	1/2	98.9	6.65	4,090	9,200	79.0

NFPA test results

Ø		Elongation			Approved class				
mm	inch	at 1.35 kN (%)	at 2.7 kN (%)	at 4.4 kN (%)					
13.0	1/2	2.1	4.6	6.3	Technical use				

Soon also available in 7/16" (11mm) - subject to certification

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.

	2
40.5	

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





CE test results per EN 1891

Ø	Ø Weight Shrinkage		Shrinkage	Elongation	Min. brea	Min. breaking strength			Cover	
					50-150 kg	Free leng	th	With figu	re 8 knot	
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	۶% ۱۹%
10.5	13/32	75.0	4.98	3.0	2.5	3,000	6,745	1,800	4,040	36.0

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.



Features	Specifications				
 Very high breaking force Very low elongation Very high melting point Urethane coating to improve abrasion strength, and color coding Spliceable 	Material: Technora® Limited UV resistance	Braid: 12			

Ø		Weight		Min. brea Free leng	aking strength gth	
mm	inch	g/m	lbs/100'	daN	lbf	
2.0	³ / ₃₂	3.4	0.23	315	710	
3.0	1/8	8.8	0.59	785	1,770	
5.0	3/16	17.7	1.19	1,735	3,900	
6.0	1/4	31.2	2.10	3,290	7,400	
8.0	5/16	46.1	3.10	4,800	10,800	
10.0	3/8	64.0	4.30	6,470	14,550	
11.0	7/16	99.7	6.70	11,210	25,200	
12.0	1/2	119.0	8.00	13,455	30,250	
16.0	5/8	148.8	10.00	19,525	43,900	
19.0	3/4	287.1	19.30	24,020	54,000	



FIRE LINE DO NOT CROSS



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.

and a start start start		Feat	ures	Specifications			
4		✓ Easi ✔ No c	d fatigue resistance ly spliced reep temperature resistance		Material:	Vectran*	Braid: 12
ll diameters							
Gold Clear	Red	Green	Blue	Grey			
	San and the second			2 32	17		

Ø		Weight		Min. brea Free leng	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
3.0	1/8	6.8	0.46	710	1,600
4.0	5/32	11.9	0.80	1,245	2,800
5.0	3/16	17.9	1.20	1,555	3,500
6.0	1/4	22.3	1.50	2,580	5,800
8.0	5/16	49.1	3.30	4,225	9,500
10.0	3/8	69.9	4.70	6,495	14,600
11.0	7/16	98.2	6.60	10,450	23,500
12.0	1/2	111.6	7.50	11,565	26,000
13.0	19/32	125.0	8.40	12,510	28,130
14.0	9/16	145.8	9.80	14,145	31,800
16.0	5/8	183.0	12.30	17,125	38,500
18.0	23/32	245.5	16.50	27,645	62,150
20.0	13/16	290.1	19.50	30,780	69,200

Tech Line

MADE IN

Tech line is the European equivalent to US-made T-12 ropes. This European version also offers high breaking strength, very low elongation, little creep and excellent heat resistant. The rope is especially suited for escape sets.



Features

- Very high breaking strength
- Excellent heat resistance
- Very low elongation

Specifications

Material: Technora®



Ø		Weight		Min. breaking strength Free length					
mm	inch	g/m	lbs/100'	daN	lbf				
5.5	1/4	20,5	1,39	1,900	4,275				
7.5	5/16	31,5	2,14	2,300	5,175				



ACCESSORY CORDS /

ACCESSORY CORDS

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

Sirius Accessory Cord

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



Ø		Weight		Min. bre Free leng	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
8.0	⁵ /16	50.0	3.36	1,440	3,235
10.0	3/8	71.0	4.77	2,400	5,395

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

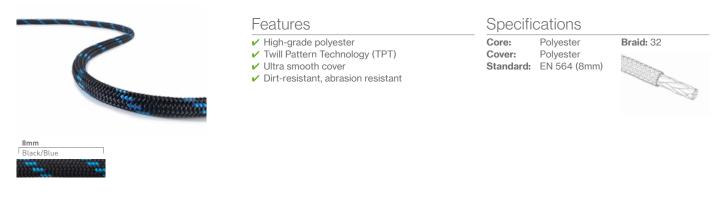


Ø		Weight		Min. bre Free leng	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
6.0	1/4	26.5	1.78	940	2,110

TPT Reep Cord

MADE IN

The TPT reep cord is a classic prusik and accessory cord based on the well-known Sirius construction. In addition to its good knot-ability and flexibility, the TPT cord also features the unique TPT cover technology. The tight braid makes the cover ultra-smooth and ensures supreme ease of handling. This 8mm accessory cord is fully certified to EN 564.



Ø		Weight		Min. breaking strength Free length					
mm	inch	g/m	lbs/100'	daN	lbf				
8.0	5/16	51.7	3.50	1,440	3,240				

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.

A. B. B. B. C. J.		Features			Speci	ifications	
			ance between firm and on the climbing rope wit ck up		Core: Cover:	Nylon Nylon	Braid: 32
5mm FGreen	Yellow	6mm Red	Light Blue	7mm Gold		Teal	8mm FBurgundy
Green	9mm Blue	Yellow					

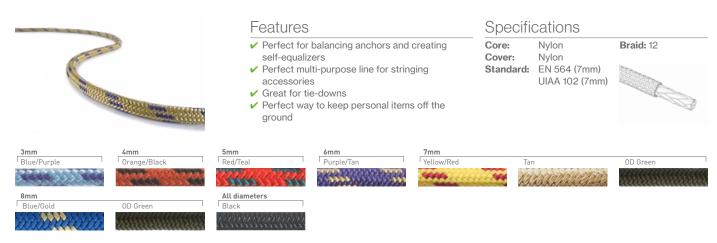
Ø		Weight		Min. bre Free leng	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
5.0	1/7	18.9	1.20	500	1,100
6.0	1/4	25.3	1.70	780	1,750
7.0	9/32	28.6	1.92	870	1,955
8.0	5/16	40.2	2.70	1,380	3,100
9.0	7/20	52.1	3.50	1,780	4,000

Nylon Accessory Cord

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.

MADE IN

MADE IN



Ø				Min. breaking strength Free length			
mm	inch	g/m	lbs/100'	daN	lbf		
3.0	1/8	6.0	0.40	165	380		
4.0	⁵ / ₃₂	10.4	0.70	205	460		
5.0	³ /16	18.9	1.27	495	1,120		
6.0	1/4	25.3	1.70	775	1,750		
7.0	9/32	28.3	1.90	910	2,050		
8.0	⁵ /16	40.2	2.70	1,375	3,100		

Polyester Accessory Cord

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.

1 2 2 2 2 2 2 2 3		Features		Spec	fications	
		 ✓ Resists war ✓ Less stretc ✓ UV resistar 	h	Core: Cover: Standar	Polyester Polyester d: EN 564 (4-8mm) UIAA 102	Braid: 24
3mm Blue/Yellow	4mm Orange/Grey	5mm Yellow/Blue	6mm Gray/Orange		8mm Yellow/Red	

Ø				Min. breaking strength Free length		
mm	inch	g/m	lbs/100'	daN	lbf	
3.0	1/8	6.7	0.45	130	300	
4.0	5/32	12.3	0.83	290	660	
5.0	3/16	18.9	1.27	475	1,070	
6.0	1/4	26.8	1.80	690	1,550	
7.0	9/32	34.2	2.30	930	2,100	
8.0	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.



Ø	ð Weight			Min. bre Free leng	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
3.0	1/8	11.3	0.76	1,335	3,000
5.0	3/16	23.4	1.57	2,090	4,700



Ocean Vectran®

Braid: 24

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	Specifications		
THE REAL PROPERTY AND IN THE REAL PROPERTY AND INTERPORTY AND INTE	 ✓ Highly abrasion resistant ✓ Grippy ✓ Heat resistant 	Core: Cover: Standard:	Vectran® Polyester/ Aramid EN 564	



Ø		Weight		Min. brea Free leng	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
6.0	1/4	32.5	2.24	2,200	4,945

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.





Features

- Highly abrasion resistant
- ✓ Grippy
- ✓ Heat resistant

Specifications

Core: Polyester Cover: Polyester/ Aramid Standard: EN 564 (8mm) ANSI Z133 (10mm)

Braid: 32

Ø		Weight		Min. bre a Free leng	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
8.0	⁵ /16	50.1	3.37	2,200	4,945
10.0	3/8	72.1	4.75	3,300	7,415

Tec Reep Cord

statistics and all

MADE IN

Tec Reep Cord is an accessory cord with high-tech materials. The core is made of coated UHMWPE which give the cord high strength and very low elongation. The core is covered by a blended Technora[®]/Dyneema[®]/XLF sheath. This adds great abrasion resistance and good grip. The cord is certified as an accessory cord according to EN 564.

CONTRACTOR AND A CONTRACTOR OF THE	Features	Specifi	cations	
	 Very strong UHMWPE core Low elongation Great abrasion resistance Good grip 	Core: Cover: Standard:	UHMWPE Technora®/ Dyneema®/XLF EN 564	Braid: 32
8mm Red Yellow	Blue			

Ø		Weight		Min. bre Free leng	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
8.0	5/16	38.0	2.58	3,000	6,750

Resc Tech

6666 A. 656

MADE IN

Designed to be a lightweight and durable rescue rope, the Resc Tech aids tactical operations in rough, wet terrain. Thanks to its UHMWPE/ Polypropylene blended core, the rope does not take in water. The Technora[®] in the sheath caters for high abrasion and heat resistance. This rope allows for operations to be quick without compromising strength and ensuring safety in even the most challenging situations



Specifications

opoonn	oacionio	
Core:	UHMWPE/	Braid: 32
	Polypropylene	
Cover:	Technora®/	
	Polyester	A DP
Standard:	EN 564	- all

Ø		Weight		Min. brea Free leng	a <mark>king strength</mark> _I th
mm	inch	g/m	lbs/100'	daN	lbf
8.0	5/16	41.0	2.80	2,900	6,525



READY MADE /

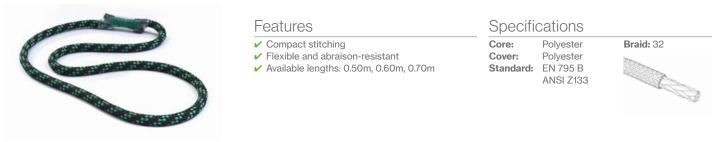
READY MADE

Besides high performance ropes, TEUFELBERGER also offers ready made products like loops, prusiks and pre-configured sets for various applications in working at height.

Sirius Loop



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.



Ø		Weight		Min. bre Free leng	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbs
10.0	3/8	71.0	4.77	2,450	5,505

Prusik Loops

MADE IN

The pre-sewn prusiks are made from our unrivaled Prusik Cord. They come in sewn loops, or bound loops providing far greater strength than knotted cords. They offer flexibility but keep breaking strength high. These prusiks are specifically designed for to grip when climbers need it and guarantee free movement when they don't.



Ø			Min. breaking strength Free length							
mm	inch	daN	lbf							
6.0	1/4	1.065	2.400							
8.0	^{5/} 16	2.045	4.600							

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).



Ø		Weight	Neight		a <mark>king strength</mark> _J th
mm	inch	g/m	lbs/100'	daN	lbf
8.0	⁵ /16	50.0	3.34	2,200	4,945
10.0	3/8	72.0	4.84	2,700	6,070

Ocean Polyester E2E

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: Polyester/ Aramid Standard: EN 795 B EN 566 (10mm) ANSI Z133 (10mm)



MADE IN

MADE IN

Ø	Ø Weight			Min. brea Free leng	aking strength yth
mm	inch	g/m	lbs/100'	daN	lbf
8.0	⁵ /16	50.0	3.36	1,800	4,045
10.0	3/8	72.0	4.84	2,500	5,620

Ocean Dyneema® Loop T

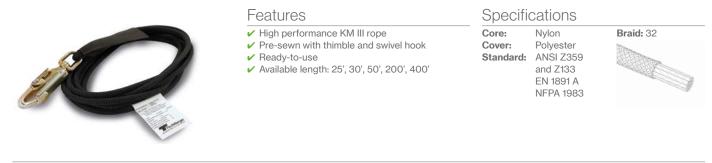
In the tree care segment, the OD Loop with a thimble has already been as successful as a Prusik on the pulleySAVER. It is also available for industrial applications, namely, as an anchor point to EN 795B or as a prusik.



Ø		Weight	Min. brea Free leng	king strength th
mm	inch	g/piece	daN	lbf
7.0	⁹ /32	86.0	2,450	5,505



Our roofing kits, made of KM III, are perfect for roofers, solar installers or anyone working at height using a lanyard and fall arrest device. The units come pre-sewn with a thimble, a 23kN rated swivel hook, a chafe sleeve and a fixed length of KM III rope in 11mm (7/16 inch).

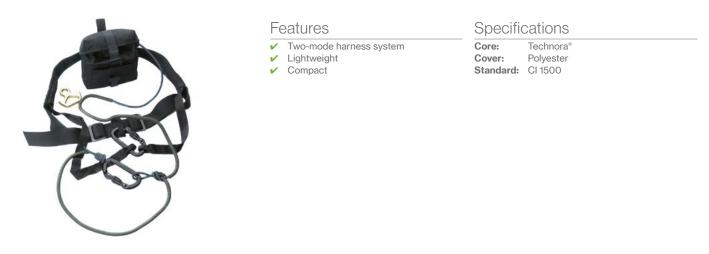


Ø	Ø Weight		Min. breaking strength Free length						
mm	inch	g/m	lbs/100'	daN	lbs				
11.0	7/16	91.0	6.12	3,765	8,465				

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.



Ø	Ø Weight		Min. breaking strength Free length					
mm	inch	g/m	lbs/100'	daN	lbf			
5.0	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 80I - 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 50I - This bag also comes with shoulder straps and the comfort handle, which make it easy to carry. It fits into the 80I bag.

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

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





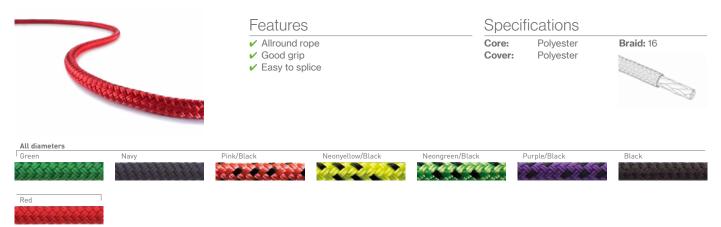
GENERAL PURPOSE ROPES

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.



Ø		Weight		Min. bre Free len	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
2.0	1/16	3.0	0.20	70	155
3.0	1/8	6.0	0.40	150	335
4.0	⁵ / ₃₂	12.0	0.81	400	895
5.0	³ /16	19.0	1.28	600	1,345
6.0	1/4	24.0	1.61	800	1,785
8.0	5/16	41.0	2.76	1,400	3,145
10.0	3/8	70.0	4.70	2,000	4,495
12.0	1/2	89.0	5.98	2,500	5,620

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.

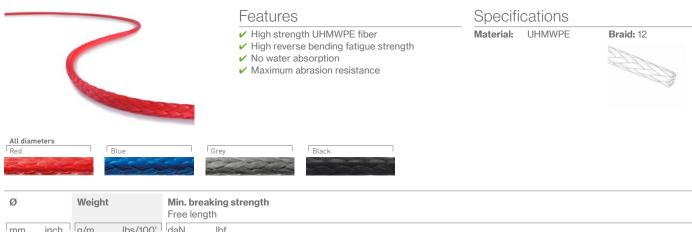
		Features			Specifications			
		 ✓ Overload ir ✓ High abrais ✓ Easy to known 	son-resistant		Core: Cover: Standard:	Polyester Polyester Machinery directive 2006/42/EC as amended for arborist riggin	Braid: 32	
12mm Red/White	14mm Orange/White	16mm Yellow/White	18mm Green/White	20mm Blue/White				
	C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.	se ereces	****					

Ø		Weight		Min. bre Free len	eaking stren gth	gth Spliced	
mm	inch	g/m	lbs/100'	daN	lbf	daN	lbf
12.0	1/2	103.0	6.92	3,500	7,860	3.000	6.740
14.0	9/16	151.0	10.15	5,200	11,680	4.420	9.930
16.0	5/8	185.0	12.43	6,300	14,160	5.350	12.000
18.0	23/32	227.0	15.26	7,700	17,300	6.540	14.700
20.0	25/32	285.0	19.16	8,800	19,780	7.500	16.860

Ocean 3000 XG

MADE IN

Ocean 3000 is a high strength fiber rope, made of UHMWPE fibers. It offers high breaking strength, has a high reverse bending fatigue strength, and a long service life. UHMWPE fibers are distinguished by their extremely high strength in comparison to their weight. Other characteristics of this highend and very versatile fiber include: maximum abrasion resistance, low elongation, no water absorption, buoyancy and good UV resistance.



mm	inch	g/m	lbs/100'	daN	lbf
2.0	3/32	2.0	0.14	400	900
3.0	1/8	5.0	0.34	800	1,800
	5/32	8.0	0.54	1,600	3,600
5.0	3/16	11.0	0.75	2,300	5,175
6.0	1/4	17.0	1.15	3,200	7,200
8.0	5/16	28.0	1.90	4,500	10,125
10.0		42.0	2.85	7,100	15,975
12.0	1/2	54.0	3.66	9,500	21,375

Endura 12[®]

MADE IN

Tug boat tow lines

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	Specifications			
 Excellent strength-to-weight ratio Excellent wet/dry strength retention Will not absorb water Urethane coated for improved abrasion resistance and color coding Spliceable 	Material: UHMWPE Braid: 12 Applications			
	 Replacement for steel cable Winch lines Helicopter lifting lines Overhead pulling lines Slings 			

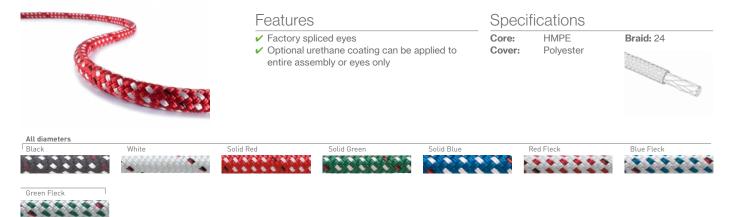


Ø		Weight			Min. breaking strength Free length		
mm	inch	g/m	lbs/100'	daN	lbf		
2.0	3/32	2.2	0.15	400	900		
3.0	1/8	6.7	0.50	1,020	2,300		
4.0	⁵ /32	9.2	0.62	1,600	3,600		
5.0	³ /16	17.7	1.19	1,980	4,450		
6.0	1/4	25.3	1.70	3,535	7,950		
8.0	⁵ /16	34.2	2.30	5,915	13,300		
10.0	3/8	50.6	3.40	7,470	16,800		
11.0	7/16	59.5	4.00	9,875	22,200		
12.0	1/2	87.8	5.90	14,275	32,100		
14.0	9/16	102.7	6.90	17,570	39,500		
16.0	5/8	135.4	9.10	22,595	50,800		
18.0	3/4	196.4	13.20	25,800	58,000		

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-todiameter 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.



Ø		Weight		Min. brea Free leng	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
4.0	⁵ / ₃₂	12.7	0.85	710	1,600
5.0	3/16	16.4	1.10	1,245	2,800
6.0	1/4	26.8	1.80	1,865	4,200
8.0	⁵ /16	44.6	3.00	3,110	7,000
10.0	3/8	56.5	3.80	3,955	8,900
11.0	7/16	80.3	5.40	5,735	12,900
12.0	1/2	98.2	6.60	8,940	20,100
14.0	9/16	128.0	8.60	10,230	23,000
16.0	5/8	175.6	11.80	12,010	27,000
19.0	3/4	235.1	15.80	15,125	34,000
22.0	7/8	311.0	20.90	21,575	48,500
25.0	1	403.2	27.10	25,800	58,000
28.0	11/8	511.8	34.40	38,255	86,000
32.0	1 1/4	586.8	39.40	37,810	85,000

STS - Stronger than Steel® HSR-75

MADE IN

HSR-75 is designed as a wire rope/cable replacement, creating the ultimate load rope. Comprised of Dyneema® fiber, HSR is heat-set in the STS process in a way that reorients the fiber's molecular chains in a linear fashion, thus ensuring greater load bearing capacity throughout the rope. This process increases the rope's breaking strength through the use of increased temperature, tension and uniform fiber distribution. The end result is a rope that is stronger than a cable, yet remains flexible, ultra light and splicable but won't splinter or recoil like a cable.





Ø		Weight		Min. brea Free leng	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
3.0	1/8	8.9	0.60	2,310	5,200
5.0	3/16	19.3	1.30	4,215	9,475
6.0	1/4	25.3	1.70	5,505	12,385
7.0	⁹ /32	37.2	2.50	8,315	18,700
9.0	11/32	58.8	3.95	10,495	23,600
11.0	7/16	75.9	5.10	14,025	31,530
12.0	1/2	101.2	6.80	19,425	43,675
14.0	9/16	138.4	9.30	24,805	55,770
16.0	5/8	163.7	11.00	19,335	65,950
18.0	3/4	193.4	13.00	38,410	86,350
20.0	25/32	263.3	17.70	46,105	103,650
22.0	7/8	281.2	18.90	50,160	112,760
24.0	1	346.7	23.30	58,230	130,900

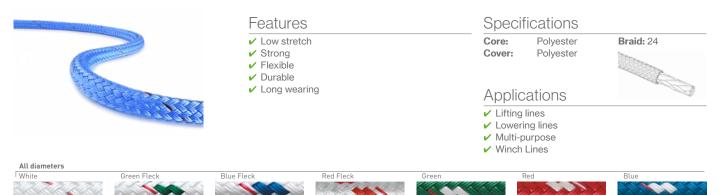


Sta-Set®

Blac

MADE IN

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



Ø		Weight		Min. brea Free leng	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
5.0	³ /16	16.4	1.1	530	1,200
6.0	1/4	29.8	2.0	975	2,200
8.0	5/16	46.1	3.1	1,555	3,500
10.0	3/8	64.0	4.3	1,775	4,000
11.0	7/16	89.3	6.0	2,310	5,200
12.0	1/2	116.0	7.8	3,935	8,850
14.0	9/16	150.3	10.1	4,225	9,500
16.0	5/8	177.1	11.9	5,780	13,000
19.0	3/4	252.9	17.0	9,785	22,000
22.0	7/8	352.6	23.7	11,830	26,600
25.0	1	482.0	32.4	14,855	33,400
28.0	11/8	592.1	39.8	16,680	37,500
32.0	1 1/4	732.0	49.2	16,945	38,100



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	Specifications	
A D D	 Perfect for rope grabs, vertical lifelines and lifeline assemblies High strength Good abrasion resistance Easily spliced 	Material: Nylon	Braid: 3
All diameters White/Red/Yellow			

Ø		Weight		Min. breaking strength Free length		
mm	inch	g/m	lbs/100'	daN	lbf	
5.0	³ /16	15.3	1.0	445	1,000	
6.0	1/4	22.5	1.5	820	1,850	
8.0	5/16	34.1	2.3	930	2,100	
10.0	3/8	50.6	3.4	1,620	3,650	
11.0	7/16	74.4	5.0	2,120	4,770	
12.0	1/2	90.8	6.1	2,780	6,250	
14.0	9/16	122.0	8.2	3,110	7,000	
16.0	5/8	151.8	10.2	3,915	8,800	
19.0	3/4	205.3	13.8	6,670	15,000	
22.0	7/8	278.2	18.7	8,315	18,700	
25.0	1	363.0	24.4	10,185	22,900	
28.0	1 1/8	458.2	30.8	13,800	31,025	

Safety Pro-12

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.



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- 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



MADE IN



Ø	Ø Weight		Min. breaking strength Free length				
mm	inch	g/m	lbs/100'	daN	lbf		
12.0	1/2	113.1	7.60	3,000	6,750		

FIBER STRUCTURES

Monofilaments

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

Characteristics:

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

Textured fibers

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

Characteristics:

- 🖌 Good grip
- ✓ High elasticity
- Traditional look and feel

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.

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

Staple fiber

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

Characteristics:

- ✓ Excellent grip
- ✓ Soft handling



PES (Polyester)

Static ropes made of polyester fibers are characterized by good breaking loads and low stretch. This material offers both chemical and physical advantages such as UV resistance salt water resistance, and good abrasion strength in both dry and wet conditions. However, the dynamic energy absorption capacity is much lower than that of 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.

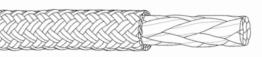


Technical properties of available raw materials

	PBO	UHMWPE	Aramid	LCP	PES	PA	PP
	Polybenzoxa zoles, Crystal Polymer	Ultra High Molecular Weight Polyethylene	Aromatic Nylon	Liquid Crystal Polymer	Polyester	Polyamide	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/cm ³)	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 meas- urable	at high loads	almost not meas- urable	not measurable	almost not meas- urable	low	at high loads
Melting temp.(°C)	charred at 650	140	charred at 500	330	260	230	165









Single braid

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

ROPE CONSTRUCTIONS

A special stabilization process and a solid, balanced construction produce a durable, long-

ropes. Whatever you expect from your rope, we have the right product for you.

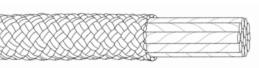
lasting, flexible and easy-to-handle rope that won't harden with age.

At TEUFELBERGER we go the extra mile to get the maximum performance out of each of our

Double braid

3-Strand

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.



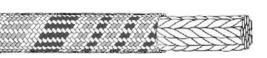
Kernmantle

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.

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.

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

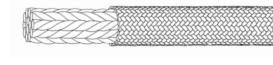
Rope and cord which is provided as a component for various pieces of machinery or appliances is often required to be prepared for a final assembly process. Tapered ends are important to facilitate easy mounting procedures.















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

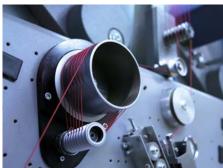
These are some of the properties that we are able to improve with coatings and special treatments:

- 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.





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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.

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