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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.

#### **MARNING**

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.

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## 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 partner for international OEMs Extensive product portfolio Dynamic Heat-resistant Technical Static General **Throwlines** Accessories ropes ropes ropes purpose ropes laces Comprehensive product development process Fiber Prototype Internal Compatibility Practical field Certification research development inspection testing testing

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.

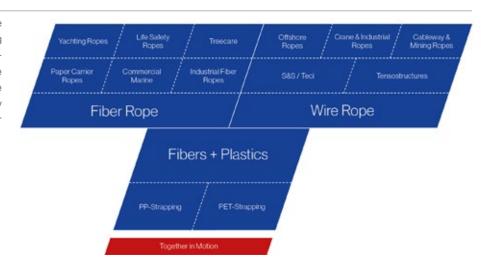
Whatever your requirements are, we are the right partner for you! Trusted partner for international OEMs Global competence with facilities in Europe, USA and Thailand

# 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.

# FOCUSED ON SUSTAINABILITY

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

#### Our commitments

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



#### Our goals

An essential part of a successful sustainability strategy is to set ambitious goals and to pursue them consistently. We at TEUFELBERGER have defined the following goals for the period until 2030:

- to reduce our company's carbon footprint by 35%
- to reduce production waste by 20%
- to only use electric power generated from renewable energy

- to only use packaging made from recycled materials
- to implement sustainability plans for all departments
- to promote lifelong learning



Division, which also includes Safety & Rescue, will be focussing on the following sustainability goals and projects:

#### To offer options for the recycling of ropes

For Teufelberger, "Recycling" is a major target area offering the greatest CO2-reduction potential. Thus, a large part of our resources will be applied to the development of a system for the recycling of ropes at the end of their service life.

#### To offer climate-neutral products

By offering select products that were manufactured in a climate-neutral way, we aim to help our customers to contribute directly to a more sustainable future.

#### To regranulate plastic reels in-house

With the help of our own in-house regranulation machine, we intend to return used polypropylene (PP) reels to the raw materials cycle for our strapping products.

#### To rely on sustainable packaging solutions

Sustainable packaging is a big focus point comprising many aspects. This is why all products are individually checked for their packaging. Where possible, we opt for more sustainable solution.





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

8

**Individual length:** 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.



**Hi-Vis:** Ropes have a reflective strand running through the sheath, that shines out when a light is directed towards it.

## 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**

- ✓ 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

#### Specifications

Core: Nylon
Cover: Polyester
Standard: EN 1891 A

NFPA 2500 (1983)



Braid: 32



#### CE test results per EN 1891

Ø	Ø Weight			Shrinkage	Elongation 50-150 kg	Min. brea	aking strer gth	-	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

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.



#### Features

- ✓ Low elongation
- ✓ Good resistance to acids
- ✓ Excellent UV stability
- 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 EN 353-2

#### Specifications

Core: Nylon
Cover: Polyester
Standard: EN 1891 A

NFPA 2500 (1983)



Braid: 32

#### CE test results per EN 1891

Ø	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	%
10.5	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.



#### 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









#### CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation	Min. breaking strength					Cover	
					50-150 kg	Free leng	ree length With figure 8 knot Sewn					
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 elongation
- Reduced kinking in case of long abseiling distances
- ✓ Excellent UV resistance

#### Specifications

Core: Nylon
Cover: Polyester
Standard: EN 1891 A

Braid: 32







	2 1001.000.000.000												
Ø	Ø Weight Shrinkage			Shrinkage	Elongation	Min. brea	aking stre	ngth		Cover			
					50-150 kg	Free length With figure 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			





Braid: 32



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 Polyester Cover: Standard: EN 1891 B (8.0mm)

EN 1891 A (9.5mm, 10mm, 10.5mm, 11mm, 13mm) NFPA 2500 (1983)

(8.0mm, 9.5mm, 10.5mm, 11.0mm,





















#### CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg		<b>Min. breaking strength</b> Free length Sewn			Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	9/0
8.0	5/16	59.0	4.00	< 5.0	3,0	2,260	5,080	1,895	4,260	52.0
9.5	3/8	65.0	4.40	< 5.0	1,8	2,800	6,290	1,895	4,260	47.0
10.0	N/A	65.0	4.40	< 5.0	1,7	3,090	6,945	N/A	N/A	52.0
10.5	N/A	84.0	5.65	< 5.0	1,6	3,210	7,215	N/A	N/A	48.0
11.0	7/16	91.0	6.12	< 5.0	1,8	3,330	7,485	3,085	6,935	45.0
13.0	1/2	117.0	7.90	< 5.0	1,8	4,330	9,730	3,680	8,265	47.0
14.5	5/8	152.0	10.20	< 5.0	1,5	5,680	12,765	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	3,0	6,3	10,2	Escape Rope
9.5	3/8	2,0	5,0	8,0	Technical Use
10.0	N/A	1,6	3,6	6,3	Technical Use
10.5	N/A	1,4	3,4	5,9	Technical Use
11.0	7/16	2,2	4,4	6,8	Technical Use
13.0	1/2	1,4	2,7	4,5	General Use
14.5	5/8	1,3	3,0	4,8	General Use

## KM III<sup>®</sup> 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 A

EN 1891 A NFPA 2500 (1983)







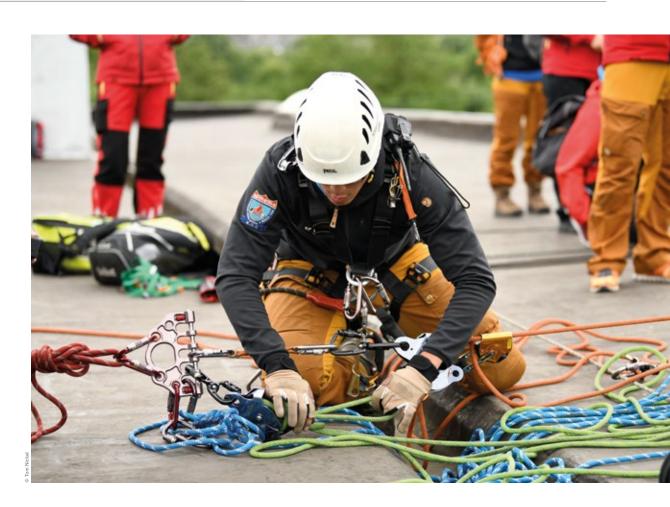


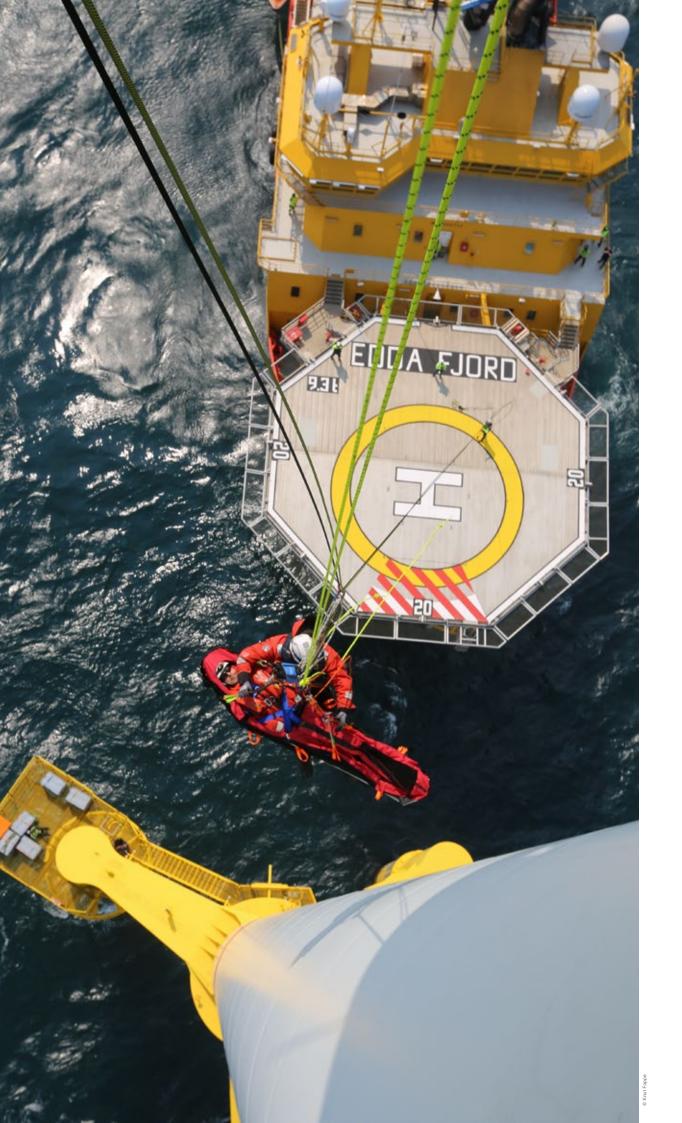
#### CE test results per EN 1891

Ø		Weight		Shrinkage	<b>Elongation</b> 50-150 kg	<b>Min. breaking strength</b> Free length Sewn				Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
9.5	3/8	65.0	4.40	< 5.0	1.8	2,800	6,290	1,895	4,260	47.0
11.0	7/16	91.0	6.12	< 5.0	1.8	3,330	7,485	3,085	6,935	45.0
13.0	1/2	117.0	7.80	< 5.0	1.8	4,330	9,730	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 (%)	1
9.5	3/8	2.0	5.0	8.0	Technical use
11.0	7/16	2.2	4.4	6.8	Technical use
13.0	1/2	1.4	2.7	4.5	General use





## **Ultrastatic**

MADE IN



The Ultrastatic is an exceptional static rope with a polyester sheath 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
- 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

#### Specifications

Core: Nylon Cover: Polyester EN 1891 A Standard:

















#### CE test results per EN 1891

Ø		Weight		<b>Elongation</b> 50-150 kg	Shrinkage	Min. brea	-	•	re 8 knot	Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
10.5	13/32	76.0	5.10	2.5	2.5	3,200	7,190	1,700	3,820	39.0
11	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. Especially for Rope Access, Confined Space and Technical Rescue Teams who operate at night time or in low light conditions, TEUFELBERGER has developped a Hi-Vis version with reflective strand running through the sheath, that shines out when a light is directed towards it.



#### 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









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



#### Features

- ✓ Lightweight
- ✓ High breaking load
- ✓ Excellent grip and handling
- ✓ 10.5mm certified with CT Easy Speed and SKR2 according to EN353-2
- ✓ 11.0mm certified with PETZL ASAP (B71, B71AAA, B071AA00), only with ASAP'Sorber 20+40 or Absorbica according to EN 353-2
- ✓ 11.0mm certified with PETZL ASAP LOCK (B071BAA00) in use with ASAP'Sorber AXESS according to EN 353-2
- ✓ 11.0mm certified with Anthron DSD+ and CT Sparrow 200R according to EN341-2A
- ✓ 12.0mm certified with TEUFELBERGER Ropstop 3 according to EN 353-2

#### Specifications

Core: Nylon
Cover: Nylon

Standard: EN 1891 B (9mm)

EN 1891 A (10mm, 10.5mm, 11mm, 12mm, 14mm)



Braid: 32

9mm	10mm		10.5mm			
White/Blue/Red	White/Blue	Red/Black	White/Blue/Red	Red	Orange/Black	Black
Q <sub>E</sub>	OT N	OTM			くしんしんしん	
	11mm					
Blue	White/Red	Black	Blue	Red	Olive	Red/Black
eccession.			ere ere ere er er er er er er er er er e	بنينينينين	****	2000
	12mm		14mm			
Black/Grey	Red/Black	Green/Black	Black			
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Ø		Weight		Shrinkage	Elongation 50-150 kg		<b>flin. breaking strength</b> Free length With figure 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



## 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 CT Easy Speed and SKR2 according to EN353-2
- ✓ 11.0mm certified with CTSparrow 200R according to EN341-2A

#### Specifications

Core: Nylon Cover: Nylon Standard: EN 1891 A

















#### 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	4.85	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

## Chameleon



MADE IN



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



Braid: 32





Ø		Weight		Shrinkage	Elongation	Min. bre	aking stre	Cover				
					50-150 kg	Free len	gth	With figu	ıre 8 knot	Sewn		
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

## **Tutor XG**



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.



#### 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)



10mm	
Orange/Black	
0	
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#### 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	<b>%</b>
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

9.6mm White/Orange/Grey

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





Ø		Weight		Shrinkage	Elongation	Min. brea	king stre	Cover				
					50-150 kg	Free leng	ıth	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.



#### **Features**

#### Specifications

- ✓ 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

Material: Polyolefin Braid: 3
Polyester



This product is not CE marked per PPE Regulation - not allowed for PPE use in EU

Ø	Weight			Min. breaking strength Free length		
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	

## 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

#### Specifications

✓ 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 Material: Polyolefin Polyester
Standard: CI-1805 ACCT



This product is not CE marked per PPE Regulation - not allowed for PPE use in EU



Ø		Weight	t		<b>Min. breaking strength</b> Free length		
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		

## 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.

# 12.7mm HiVee

UltraVee

#### **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: Standard:

Polyester EN 1891 A, ANSI Z133



CE test results	per EN 1891

Ø	Ø Weight		Shrinkage	Elongation 50-150 kg	Min. brea	aking strer	-	ıre 8 knot	Cover	
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	0/0
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.



#### Features

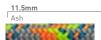
## ✓ Functions perfectly in combination with standard hardware designed for use with 11mm ropes

- 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: Cover: Standard: Nylon Polyester EN 1891 A, ANSI Z133 Braid: 24













#### CE test results per EN 1891

Ø	Ø Weight		Shrinkage	Elongation	Min. brea	Min. breaking strength			Cover	
					50-150 kg	Free leng	gth	With figu	ire 8 knot	
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



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: Cover: Standard:

Nylon Polyester EN 1891 A, ANSI Z133









Ø		Weight		Shrinkage	Elongation	Min. brea	Min. breaking strength			Cover		
					50-150 kg	Free leng	th	With figu	ıre 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 ropes 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 ropes 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 Endura 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

#### itures

- ✓ 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





Braid: 48

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	Canyon STD-DRY
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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.



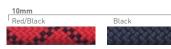
#### **Features**

- ✓ 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)







Ø	Weight		Elongation EN 892, UIAA		ight 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	33.0	8.0	9.0	39.0	7	9	
11.3	82.0	5.50	32.0	7.5	9.0	36.0	16	20	







## 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



Braid: 12

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.



#### Features Specifications

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

This product is not CE marked per PPE Regulation - not allowed for PPE use in EU

Ø	Ø		Weight		Min. breaking strength						
				Free lengt	th						
mm	inch	g/m	lbs/100'	daN	lbf						
7.0	9/32	27.1	1.80	601	1,350						
8.0	5/16	28.2	1 90	756	1 700						

## NFPA-Throw Line





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 2500 (1983) for throwlines.



#### **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 2500 (1983)

Material: Polypropylene



This product is not CE marked per PPE Regulation - not allowed for PPE use in EU



Ø		Weight		Min. break	king strength	
mm	inch	g/m	lbs/100'	daN	lbf	
7.5	5/14	29.8	2 በበ	1 930	4 335	

## 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.



Features	Specifications
----------	----------------

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

Core: MFP

Cover:

This product is not CE marked per PPE Regulation - not allowed for PPE use in EU

Nylon

Braid: 20

T

Ø		Weight		Min. breaking strength Free length				
mm	inch	g/m	lbs/100'	daN	lbf			
11 በ	7/14	78 9	5 30	1 6/15	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 2500 (1983) throwline requirements.



#### Features

✓ Excellent floating characteristics

✓ Very good grip

#### Specifications

Core: Nylon
Cover: Polypropylene

Cover: Polypropylene Standard: NFPA 2500 (1983)



This product is not CE marked per PPE Regulation - not allowed for PPE use in EU

Ø			Min. breaki	ng strength	
mm	inch	g/m	lbs/100'	daN	lbf
9.0	23/64	43.1	2.90	1,560	3,505



# 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**

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.



eatures	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 2500 (1983)

Limited UV resistance



This product is not CE marked per PPE Regulation - not allowed for PPE use in EU



Ø		Weight		<b>Min. breaking strength</b> Free length		Cover
mm	inch	g/m	lbs/100'	daN	lbf	%
7.5	9/32	46.1	3.10	3,240	7,280	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	0.8	1.1	1.4	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.



#### Features

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

#### Specifications

Core: Nylon
Cover: Technora®
Standard: NFPA 2500 (1983)

**Limited UV resistance** 



This product is not CE marked per PPE Regulation - not allowed for PPE use in EU



Ø		Weight		<b>Min. breaking strength</b> Free length		Cover
mm	inch	g/m	lbs/100'	daN	lbf	%
11.0	7/16	91.2	6.13	3,440	7,730	72.0
13.0	1/2	98.9	6.65	3,920	8,810	79.0

#### NFPA test results

Ø		Elongation			Approved class
mm	inch	at 1.35 kN (%)	at 2.7 kN (%)	at 4.4 kN (%)	
11,0	7/16	3.6	6.0	8.3	Technical Use
13,0	1/2	2.8	4.8	6.4	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.



#### 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<sup>®</sup> Cover: Standard: EN 1891 A Limited UV resistance Braid: 32



#### CE test results per EN 1891

Ø		Weight		Shrinkage	Elongation 50-150 kg	Min. brea	aking stren pth	_	re 8 knot	Cover
mm	inch	g/m	lbs/100'	%	%	daN	lbf	daN	lbf	%
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

- 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



This product is not CE marked per PPE Regulation - not allowed for PPE use in EU



Ø		Weight		Min. brea	aking strength
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

## NYTech



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.



#### Features

- ✓ Left hand lay rope
- ✓ Nylon/Technora® blend
- ✓ Enhanced heat resistance
- ✓ Excellent cut resistance

#### Specifications

Material: Nylon/Technora® Braid: 3

**Standard:** NFPA 2500 (1983)





#### CE test results per EN 1891

Ø		Weight		Min. brea	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbf
14.0	9/16	141.3	9.50	4,960	11,150

#### 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	2,6	7,0	11,7	Laid Lifesaving rope



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 Specifications

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

#### Material: Vectran®

Limited UV resistance



This product is not CE marked per PPE Regulation - not allowed for PPE use in EU



Ø		Weight		Min. brea	aking strength
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®

Braid: 12

Limited UV resistance



		'							
Ø		Weight		Min. breaking strength					
		Free leng	ree 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, anchor loops, hitch cords, and multifunctional tools complement our product portfolio.

### Sirius Accessory Cord

MADE IN

Braid: 32



The Sirius Accessory 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)

ANSI Z133 (10mm)









Ø	Ø Weight		Min. brea	aking strength pth	
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	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.



#### Features

- ✓ High-grade polyester✓ Twill Pattern Technology (TPT)
- ✓ Ultra smooth cover
- ✔ Dirt-resistant, abrasion resistant

#### Specifications

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

Braid: 32





Ø		Weight		Min. bre Free leng	aking strength gth
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.



#### Features

✓ Perfect balance between firm and supple

Light Blue

✓ Great grip on the climbing rope without letting the knot lock up

#### Specifications

Core: Nylon Cover: Nvlon

Teal

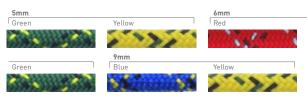
Braid: 32

8mm Burgundy



This product is not CE marked per PPE Regulation - not allowed for PPE use in EU

7mm Gold



Ø		Weight		Min. bre	eaking 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

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 (7m

EN 564 (7mm) UIAA 102 (7mm)



Braid: 12













Ø		Weight		Min. bre	eaking strength
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

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-

EN 564 (4-8mm) UIAA 102















Ø		Weight		Min. bre	eaking strength gth
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.



#### Specifications Features

- Exceptionally strongAbrasion resistant
- ✓ Perfect for cordelette

Core: Technora® Cover:

Polyester

Braid: 24

This product is not CE marked per PPE Regulation - not allowed for PPE use in EU









Ø				Min. brea	aking strength pth
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®

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







Ø		Weight		Min. brea	aking strength yth
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/

Standard: Aramid EN 564 (8mm) ANSI Z133

(10mm)







Ø	Ø Weight		Min. bre	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

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. In addition, Tec Reep Cord floats and can therefore also be used in swift water rescue szenarios. The cord is certified as an accessory cord according to EN 564.



#### Features

- ✓ Very strong UHMWPE core
- ✓ Low elongation
- ✓ Great abrasion resistance
- ✓ Good grip

#### Specifications

Core: UHMWPE
Cover: Technora®/

Dyneema®/XLF

Standard: EN 564









Ø		Weight		Min. brea	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

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



#### Features

- ✓ Lightweight rescue rope
- ✓ Highly durable
- ✓ Abrasion resistant
- ✓ Perfect for rough terrain

#### Specifications

Core: UHMWPE/ Polypropylene Cover: Technora®/

Polyester **Standard:** EN 564





j		Weight		Min. bre	eaking strength
				Free len	gth
mm	inch	g/m	lbs/100'	daN	lbf
8.0	5/16	41.0	2.80	2,900	6,525





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

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



Ø		Weight		Min. breaking strength Free length				
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.



#### **Features**

- ✓ Pre-sewn or bound
- ✓ High breaking strength
- ✓ Excellent grip
- ✓ Available lengths 18" and 25"

Specifications

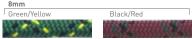
Core: Nylon
Cover: Nylon

Braid: 32



This product is not CE marked per PPE Regulation - not allowed for PPE use in EU  $\,$ 





Ø		Min. bre Free len	eaking strength	1					
mm	inch	daN	lbf						
7.0	9/32	1.290	2.900						
8.0	5/16	2.000	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).



#### Features

- ✓ Automated stitching
- Higly durable
- Highly abrasion 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) ANSI Z133 (10mm)



Braid: 24

Ø		Weight		Min. brea	aking strength yth
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

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 carabiner. 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)



Braid: 32

Ø		Weight		Min. brea	aking strength gth
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

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® Polyester/Aramid

Standard: EN 795 B

ANSI Z133 (Prusik)



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

### Roof Kit

MADE IN



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).



#### **Features**

- ✓ High performance KM III rope
- ✔ Pre-sewn with thimble and swivel hook
- ✓ Ready-to-use
- Available length: 25', 30', 50', 200', 400'

#### Specifications

Core: Nylon Cover: Polyester Standard: ANSI Z359

> and Z133 EN 1891 A NFPA 2500 (1983)



Ø		Weight		Min. bre	aking strength gth
mm	inch	g/m	lbs/100'	daN	lbs
11.0	7/16	91.0	6.12	3,330	7,485

### 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

This product is not CE marked per PPE Regulation - not allowed for PPE use in EU

Ø		Weight		Min. brea	aking strength th
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.



#### **Features**

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

#### Specifications

Core: Cover:

Polyester Polyester





	А	ш	α	ıa	m	ıe	te	rs	•
Γ	G	re	е	n					

















Ø		Weight		Min. bre Free len	eaking 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

- ✓ Overload indication
- ✓ High abrasion-resistant
- ✓ Easy to knot

#### Specifications

Core: Cover: Standard:

Polyester Polyester Machinery directive 2006/42/EC as amended for arborist rigging













Ø		Weight		Min. bre	eaking stren gth	<b>gth</b> 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.



#### Features

- ✓ High strength UHMWPE fiber
- ✓ High reverse bending fatigue strength
- ✓ No water absorption
- Maximum abrasion resistance

#### Specifications

Material: UHMWPE













Ø		Weight		Min. bre Free len	eaking strength gth
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
4.0	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	3/8	42.0	2.85	7,100	15,975
12.0	1/2	54.0	3.66	9,500	21,375

### Endura 12<sup>®</sup>

MADE II



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
222		

Ø		Weight		Min. brea	aking strength
mm	inch	g/m	lbs/100'		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-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: Cover:

HMPE Polyester





All diameters										
Black	White	Solid Red	Solid Green	Solid Blue	Red Fleck	Blue Fle				
	466666666	*****	******		****	* *				



Ø		Weight		Min. brea	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	1 1/8	511.8	34.40	38,255	86,000
32.0	11/4	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 steel wire rope, yet remains flexible, ultra light and splicable but won't splinter or recoil like a steel wire rope.



346.7

24.0

23.30

#### Features

#### Specifications

Material: Dyneema®

Braid: 12



✓ Stronger than Steel technology ✓ Ultralight ✓ Spliceable

58,230

130,900

Ø		Weight		Min. brea	aking strength oth
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



### Sta-Set®



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: Cover:

Polyester Polyester Braid: 24



#### **Applications**

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

















Ø		Weight		Min. brea	aking strength
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	11/4	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**

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

#### Specifications

Material: Nylon

Braid: 3



Ø		Weight		Min. brea	aking strength
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

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: Cover:

Nylon
Polyester/
Polyoefin

Braid: 12



12mm		_
White		

Ø		Weight		Min. bre	aking strength pth
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

#### 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



### 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 Kuraray), 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

	РВО	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/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 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

### 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.



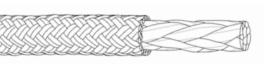
#### 3-Strand

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.



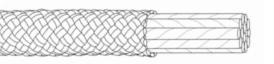
#### Single braid

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.

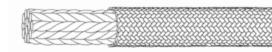


#### Str8 Jacket Core

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.



### **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.



## 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:

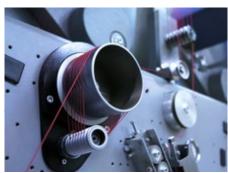
- ✓ Polyurethane
- ✓ Silicones
- ✓ Wax
- ✓ Acrylates
- ✓ PTFE



#### 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)



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#### Endura Standard DRY and 2x-DRY

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

### ROPE 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 uncoiled correctly, laid out straight and dragged while the loose end is allowed to untwist itself freely. Winding it up in figure 8 slings or stowing it in a rope bag prevents the rope from becoming twisted during storage.

#### Rope Storage and Care

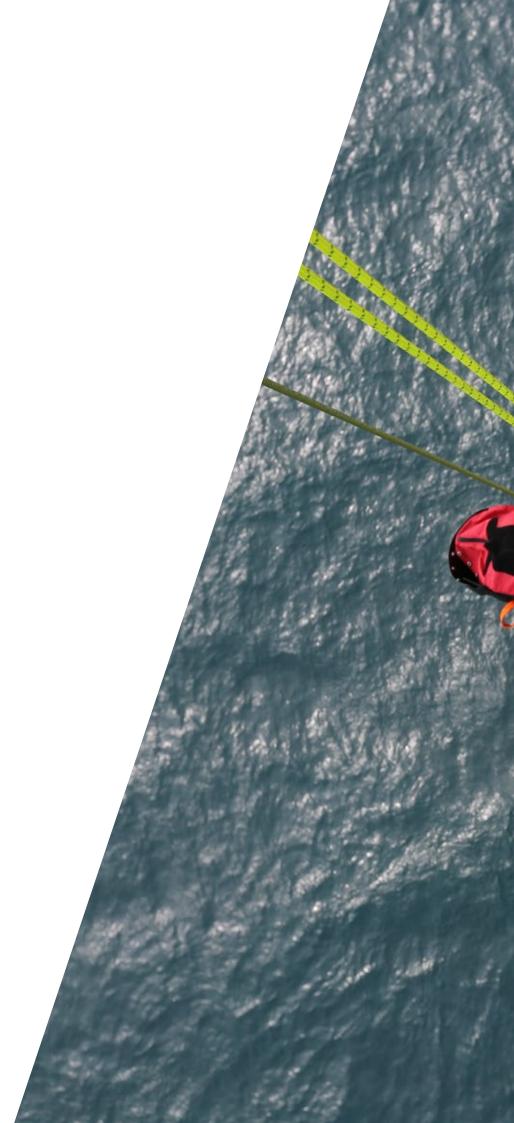
Recommended conditions for proper storage:

- ✓ 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 9175 fiberrope@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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