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TIED TO BE FREE



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For twenty years we have

production of mountaineering

Major historical milestones

TWENTIETH ANNIVERSARY

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at the past 20 years since the

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CLIMBING

Whether you're a novice climber, who's just getting acquainted with the vertical world, or an experienced professional, you'll definitely have a choice with us

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Maximum performance, safety and reliability in the most demanding conditions

61

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Ropes for all adrenaline lovers, fans of rapid mountain streams, canyons, gorges and waterfalls, waterfall descents, rappelling down natural formations or love rappelling in the mysterious

45

ARBORIST

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TENDON ACADEMY Important storage and use information, including recommendations

80

comparison of all our ropes

on the maintenance of urban greenery, or carry out specialist interventions in the tree canopy

Comprehensive equipment for all

tree climbers. Whether you work



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SPELEOLOGY AND CANYONING



ROPE OVERVIEW Comprehensive feature

30 78



WORKING AT HEIGHTS

Behind the quality of our static ropes are patented technologies, that guarantee a unique construction and high strength

Necessities for a safe and efficient climbing or working

Dress in Tendon colors and do

IMPORTANT LINKS



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TENOTE APP 2.0

Our second-generation mobile app for identification, marking, recording work and climbing ropes

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DISTRIBUTORS

Current online list of our partners worldwide

2025 IS **A SIGNIFICANT** MILESTONE **FOR TENDON**

For twenty years we have been dedicated to the production of high quality climbing and working ropes, which has earned the trust and respect of professionals around the world.

We started with a simple vision to create ropes that people can rely on even in the most challenging conditions. Through constant research, innovation and a focus on safety, reliability and functionality in all our products, we have become one of the market leaders. And our journey certainly doesn't stop there. Thank you for being part of our story.





th **ANNIVERSARY** 20 JIŘÍ GAZDA FOUNDER OF TENDON & PRODUCT MANAGER



wenty years ago, we built on our rope manufacturing history under the LANEX brand and started with a clear vision: to produce a new generation of quality climbing and working ropes that would provide our customers with safety and reliability even in the most extreme conditions. From humble beginnings, we have gradually developed into a major player in the production and export of safety ropes and personal protective equipment for working at heights and above free depth.

Thanks to our constant focus on innovation, quality materials and technological advances, we have not only managed to gain a stable position in the European market, but also expanded to other parts of challenges and successes!

the world. Today, our products ensure the safety of professionals and climbers on all continents, whether it is for high-altitude expeditions, construction projects or special rescue operations.

This success is mainly due to our employees, whose professionalism, expertise and commitment have enabled us to overcome all the challenges the market has brought us. With every new product, every export realized and every customer who trusted us, we grew not only as a company but also as a team.

Thank you to everyone who has stood by us and we look forward to another decade of

TODAY WE ARE PROUD TO BE NOT ONLY A STABLE COMPANY WITH A LONG TRADITION, BUT **ALSO AN INNOVATIVE LEADER** IN THE FIELD OF SAFETY **ROPES, CONSTANTLY PUSHING** THE BOUNDARIES OF WHAT IS POSSIBLE AND HELPING TO ENSURE THE SAFETY AND SUCCESS OF OUR CUSTOMERS **AROUND THE WORLD.**



^{ielmet fitting 2015}

Friedrichshafen 2017





Friedrichshafen 2011

New office, Day 01



Outdoor Munich 2022

PRODUCTION



Tendon is a purely Czech brand with international potential. Our ropes can be found almost all over the world, but before that happens, we breathe life into them in the facilities of Lanex in Bolatice. Its history dates back to 1949, when the first ropes began to be produced here. In 1998, the first static and dynamic ropes were produced here and in 2005 the independent brand Tendon was established.

DETAILS

01 Ambassador Danny Menšík in production, **02** Knitting machine or colloquially "knitting machine", **03** Ambassador Zdeněk "Háček" Hák in production, **04** Process of rope cutting, **05** Ambassador Tom Randall in production with technologist Vít'a Leher, **06** Ambassador Denis Pail in production, **07** Knitting of rope Master 9.7 neon, 08 Danny Menšík on climbing wall Tendon Hlubina, **09** View into production, 10 Process of control in production























QUALITY **AND CONTROL**

Every centimeter of Tendon ropes undergoes a meticulous visual, optical and tactile inspection. In addition, a sample is taken from each spool and sent to the quality department for inspection, where it is droptested according to the relevant standard. Only ropes that pass the inspection of the given parameters are packed with the unique "twist-free" technology guaranteeing that the rope is ready to climb immediately after unpacking.

::\> DIR A: lot ready reading drive A loort, Retry, Fail? ве: ов]}ев ее CR1T1[AL 3®R0R

C:\>dir SCANNING... PRIORITY: RESEARCH OBJECTIVES: DEVELOPMENT / INNOVATION prototype.exe/

RESEARCH & DEVELOPMENT

LOADING LOG 241]

We have twenty years of continuous research and development behind us. Our developers are climbers in body and soul who reflect the needs of all climbers and workers at height in the development of new ropes. We are not satisfied with standard solutions, but are constantly looking for the best ones to improve the reliability and functionality of the equipment with an emphasis on safety.

6D 79 74 65 6E 64 6F 6E 2E 63 6F 6D

[SYSTEM READY]

C:\>RESEARCH & DEVELOPMENT SYSTEM OPTIMIZED

Volume in drive C is RESEARCH Directory of C:\PROJECTS

12.345 bytes 0095AN41S000C.txt 1.024 bytes LANSYSTEM <DIR2

TELIX®

Patented technology permanently connects the rope core to the braid. This connection prevents the rope braid from sliding. This result is achieved by adding a special material between the core and the braid. The subsequent technological process achieves a strong and flexible connection between these two parts of the rope.

The rope has 0% braid shift, much longer life, is soft and great to handle.

↓ This technology is carried by Ambition 10.2 ropes page 31, then Master 9.0 and Master 9.7, page 37



SECURE

ropes, Page 32

Sandwich rope construction with specially developed staple fiber keeps a person with a severely damaged braid suspended.





 \downarrow This technology is carried by Hattrick 9.7 and 10.2





KEY FEATURES

Each climbing rope has its own unique features that meet the highest safety and technological standards. From patented technologies like TeFIX® that ensure a strong core and braid connection to Complete Shield impregnation that protects the rope from moisture and wear, these ropes are designed for maximum performance and reliability.

TeNOTE

A fast, efficient and easy to use tool for rope inspection and maintenance with PC and mobile phone using a microchip.



CE – SYMBOL OF COMPLIANCE This symbol indicates that the product meets the safety requirements set out in the relevant European legislation. The number after the CE symbol (e.g. CE 1019) indicates the relevant notified body an accredited testing laboratory.



UIAA The product meets the strict safety requirements of the International Union of Mountaineering Associations.



MIDPOINT OF ROPE

The rope is marked with a distinctive color in the middle of its length, which does not interfere with its structure or mechanical properties. Only for ropes 30-80 m long.

BICOLOR (BC)

UIAA

A clearly identifiable change in the rope pattern in the middle, which brings comfort when handling the rope and is especially useful when rappelling.

STANDARD

Improved basic surface treatment of dynamic ropes. A new technological process allows the impregnation to be applied during standard rope treatment. As a result, the service life of TENDON ropes is extended.

COMPLETE SHIELD

Maximum rope treatment with high waterproof and abrasion resistant effect. Both the braid and the core of the rope are treated with the ECO variant of the PFC-free impregnation, which creates an almost impermeable protective layer on the entire rope against water, dust and other particles.

TeFIX®

Patented technology ensures a permanent connection between the core and the braid. This is achieved by using special materials which, by a further technological process, ensure a permanent connection between the core and the braid.

COMPACT

OMPAC)

Unique rope termination technology. The last 15 mm of the length is the core with braid are combined into one compact unit.

SECURE

Patented technology ensuring zero braid drift. Sandwich construction of the braided layers and the use of specially treated fibers ensure that the rope is secure even in the event of significant braid damage.

BRAIDING **SYSTEMS**





SBS Simple Braid System - Simple braiding guarantees pleasant handling, smoother passage of the rope through the belay devices



SBS PRO

Improved version of SBS braid. The rope friction is reduced to a minimum and thanks to this you don't even know that the rope is accompanying you throughout the climbing performance.



TANDEM

The rope strands are woven into the structure in pairs. This makes the surface of the rope more structured and easier to hold. It does not slip.

PERFORMANCE CATEGORIES EXPERT





TYPES OF DYNAMIC ROPES

SINGLE ROPES

A single rope is used for ascent. This is the basic and most common way of using a rope for ascent.

HALF ROPES

(1/2)

 (∞)

The individual ropes are fastened alternately into the progressive belays. This system reduces the risk of the ropes being cut by falling rocks and provides maximum safety in high mountains and heavy climbing.

TWIN ROPES

The same ropes are always used in pairs and have common belay points. Double ropes guarantee high safety, especially for classic climbing in high mountains.

Climbing is your lifestyle and you always want the best equipment. You need an attack rope that will never let you down and, on the contrary, will support you in the hard steps.

ADVANCED

You enjoy climbing and you certainly don't set small goals. You are interested in equipment and want great products for yourself.

BEGINNER

Ropes marked in this way are ideal for your first climbing experience or occasional climbing. They include thicker rope diameters with long life.

CLIMBING, RUNNING AND D ON REPEAT



DISCIPLINE BOULDERING, LEAD CLIMBING

What is your favorite Tendon rope and why?

Definitely the Master PRO 8.9, because it's light, doesn't take up much space and you hardly feel it when climbing. I take it both to the crags and on the wall.

Do you have a climbing idol or why?

Janja is undoubtedly incredible, but she is more of an idol than a role model for me. For a long time I admire our climbing legends like Suk, Mraz, Adam and Stráníci. It's probably more about attitude than results for me.

What is the highlight of sport climbing for you and why? Is it the Olympics, World Cup, rock climbing projects or something else? Well over the last 5 years I feel like it's really become very separate. They're actually completely different disciplines.

Are you superstitious? Do you have any climbing talismans?

When I was younger, I used to be more. I was "lucky" in all things, like underwear, hairstyle, leggings. Now I only believe in rubber bands and a pre-race walk.











↑ Moravian Karst, Eliška is secured by Master PRO 8.9, page 36 Khon Kaen, Thailand Winter 23/24. Anna uses our Master 9.7, page 35

ANNIE GOING HAZELNUTS

DISCIPLINE ROCK CLIMBING

"Really love this one. @tompaulrandall and I put up in the Boneyard. Technical, stemmy movements to start before getting into some really enjoyable nohands knee barring. It finishes with jugs on a slab that seems to never end "Two For Joy" (7b, FA: me)"





EMILEN TONNELLING WHEN TONNELLING WHEN TONNELLING TONNELLI TONNELLING TONNELLING TONNELL

When did you start climbing and how?

I started climbing at the age of 16 when I was invited on a date to a climbing gym (it was actually my first date!) and right away I got myself a monthly membership.

What are your favorite climbing areas in Europe?

All of Catalunya, I loved visiting Switzerland (magic wood) as well. There's still so much rock I have yet to explore in Europe!

Is there a hair color combination that you are afraid of?

HAHA! I think orange and yellow together might be too much. Which is wild because I always say "too much is almost enough" but I think that might cross a line. Will try it out and report back.

What is your favorite model of Tendon rope and why?

I love your Tendon Master 8.6 rope. It's PERFECT for redpointing really long routes, and I love me my long routes!

ALWAYS ON THE EDGE

DISCIPLINE SLACKLINE, ALPINISM (IFMGA MOUNTAIN GUIDE), ROCK CLIMBING

→ Děčínský Sněžník, Sleeping Buddha, X

↓ Chamonix, France, 2024. Danny with his favorite ropes, the twins Master PRO 7.6, page 36





What do you enjoy about guiding and what annoys you?

The days in the field, even if they are sometimes challenging and stressful, I usually enjoy them, but the worst is the long driving and leaving home, and then also when I have to change the location due to weather and come up with an alternative plan, re-book the huts, juggle with the conditions to make the days as good as possible.

Sometimes I spend all day on my ass looking at all the possible weather forecasts for dozens of locations, figuring out the right hikes for the situation, and then my head is fuming, stressed, and paralyzed by choices that may not come to fruition.

What is your favorite rope from Tendon and why?

The neon Master Pro 9.2 for sport and sand, the black single Master Pro 8.9 and the green and orange half 7.6 for the mountains.

You're not worried about guiding taking up your time and energy to "do your own climbing"? It does happen, but I think I'm starting

to balance it well and I'm climbing better than ever again despite many days in "easy terrain". It's very important to learn to plan your season well and to be able to rest and train at the right time.

What your mountain guide season looks like?

Different every year. But I spend most of my days ski guiding in the winter. Early summer is ideal for me in Chamonix, or generally in the western Alps, then summer in the Adder and autumn in the Dolomites, Tatras.





Khon Kaen, Thailand Winter 23/24. Tom chews our Master 9.7, page 35

LIVING FOR THE CLIMB

DISCIPLINE CRACK CLIMBING, **ROCK CLIMBING**

At what age did you start climbing and how?

I started climbing about 16, 17 yrs old through a friend at school. He was really into traditional climbing and encouraged me to take part in a local climbing competition for fun. I ended up doing much better than I expected and I guess that was all the encouragement I needed!

You have been climbing for many years, what keeps you motivated for training, projects, traveling?

I think it's probably the variety of experiences that you can have climbing (it's almost impossible to get bored) and also the incredible people that you meet within the sport. I love that there's multiple 'ways' to climb all the way from indoors vs outdoors and bouldering, sport, traditional and big wall. The fact





that you can combine this travel around the world is really special as well, as even if I'd not been a climber, I would certainly have traveled a lot.

Which Tendon rope is your favorite and why?

Ever since I started using ropes made by Tendon, I have been fascinated by their properties. In my experience, it is almost impossible to find a rope with good maneuverability / knotability, that has also got great durability. I found this combination in the Master Pro 9.2 rope, which I used for a few weeks to practice climbing what I consider, from a sports point of view, the most difficult crack route on sharp granite in Norway called "Recovery Drink" (8c). Basically, I checked the rope every day and expected some damage, but I never found any.

Whether you are a beginner climber who is just getting acquainted with the vertical world or an experienced professional, you will definitely find a choice here. Strength, durability and reliability are the basis of every product in our range, so you can focus on what's really important - pushing your own limits and getting home safely.

> ↑ Photo Jan Haráč, @haracjan, Location High Tatras, Weberovka → Photo Ondřej Švihálek, Location Prachov Rocks







	AMBITION TeFIX	® 10.2
cker ful er to catch ibing	The sturdy rope will delight b advanced climbers alike. TeFl guarantees zero braid displac safety in case of damage. The and therefore slower in the be resistant rope with a high fall for wall, sand or sport climbir	eginners and X® technology ement, but also e braid is thicker elay. The highly count is perfect 1g.
	ש TeFIX® technology ש Thicker braid ש Durability	
	BIG WALL	
	D102AF41S000C	YELLOW ORANGE
1	EN 892, 🞯 1019	1
10.5 mm	DIAMETER	10.2 mm
69 g/m	WEIGHT	67 g/m
9	NUMBER OF UIAA FALLS	11
9.2 kN	MAX. IMPACT FORCE	8.3 kN
6,9 %	STATIC ELONGATION	6.9 %
34 %	DYNAMIC ELONGATION	33 %
0.8	KNOTABILITY	0.8
48	NUMBER OF BOBBINS	40
39.2 %	SHEATH MASS	35.24 %
		(tandard)



ALPINE 7.9





Diameter צ

CLIMBING AND MOUNTAINEERING

D079TL41S000C

D079TL42S000C

EN 892, ⓒ 1019

NUMBER OF UIAA FALLS

MAX. IMPACT FORCE

STATIC ELONGATION

DYNAMIC ELONGATION

NUMBER OF BOBBINS

KNOTABILITY

SHEATH MASS

SHEATH SLIPPAGE

DIAMETER

WEIGHT

Suitable for all performance categories

1.0 RED

YELLOW

-

12 💿

5.7 8.5

0 0

38

5

10.5

0.9 0.9

32 32

7.9 7.9 mm

16

8 38 35

44 44 %

38 a/m

kΝ

%

%



HATTRICK 9.7

A great choice for all performance climbers, who are safety-conscious. Secure technology ensures zero displacement of the braid to the core and the SBS system takes care for excellent handling and smooth progression Secure Technology



⊌ Favorite diameter



EN 892, 🕥 1019

NUMBER OF UIAA FALLS

MAX. IMPACT FORCE

STATIC ELONGATION

DYNAMIC ELONGATION

NUMBER OF BOBBINS

KNOTABILITY

SHEATH MASS

SHEATH SLIPPAGE

DIAMETER

WEIGHT







HATTRICK 10.2

Simple rope with Secure technology that

the rope is secure and durable. Perfectly

projecting. SBS braid system ensures a

smoother run in the carabiners.

Secure technology ∠

SBS ע

Resistance 🛛

suited for strenuous top rope climbing and

guarantees zero braid slippage, proving that







INDOOR 9.8

Developed to suit climbers on artificial walls. Its specialty is the braided core, thanks to which allows it to maintain its round shape. High Resistance to top rope climbing and projecting. The increased durability is due to higher fiber density and safer entanglement fall protection. The rope is also slower in the belay. fall protection. The rope is also slower in the belay.

INDOOR 10.2i

and a high safety factor, which not only weather conditions.

ש Braided core ש High durability ש Thicker braid			ע Increased safety א High durability א Popular color design
INDOOR CLIMBING			INDOOR CLIMBING -
D098TI41S000R	BLACK/BLUE		D102TI71S000C RED/YE
D098TI42S000R	BLACK/ORAN	GE	D102TI72S000C
EN 802 @1019			
	U		
DIAMETER	9.8	mm	DIAMETER
WEIGHT	63	g/m	WEIGHT
NUMBER OF UIAA FALLS	11		NUMBER OF UIAA FALLS
MAX. IMPACT FORCE	9.0	kN	MAX. IMPACT FORCE
SHEATH SLIPPAGE	0	%	SHEATH SLIPPAGE
STATIC ELONGATION	7.9	%	STATIC ELONGATION
DYNAMIC ELONGATION	32	%	DYNAMIC ELONGATION
KNOTABILITY	0.9		KNOTABILITY
NUMBER OF BOBBINS	40		NUMBER OF BOBBINS
SHEATH MASS	39	%	SHEATH MASS
even 🔅 karded			



MASTER 7.0

It boosts one of the world's "best", and that is its low diameter. You won't find a thinner rope in the world. A very low weight of 34 g/m, it's noticeable. It's the lightest choice for both extreme climbers, ski mountaineers, glacier hikers, as well as for climbing shorter climbing sections in mountains. Certified as double only.

RED

BLUE

 \odot

7 mm

34 g/m

9.6 kN

0 %

8.4 %

33 %

41 %

0.9

40

14

↘ The world's thinnest rope

CLIMBING AND MOUNTAINEERING

- Low weight
- ⊌ Great handling

D070TM41C000C

D070TM42C000C

EN 892, ⓒ 1019

NUMBER OF UIAA FALLS

MAX. IMPACT FORCE

SHEATH SLIPPAGE

STATIC ELONGATION

DYNAMIC ELONGATION

NUMBER OF BOBBINS

KNOTABILITY

SHEATH MASS

DIAMETER

WEIGHT



MASTER 7.8

The ideal choice for all performance levels categories. Its low weight with ideal diameter and other top parameters allow for versatile use. In the mountains, the rope is at home whether you climb more lengths, ice or mixes.

⊾ Low weight

EN 892, 🕥 1019

NUMBER OF UIAA FALLS

MAX. IMPACT FORCE

STATIC ELONGATION

DYNAMIC ELONGATION

NUMBER OF BOBBINS

SHEATH SLIPPAGE

KNOTABILITY

SHEATH MASS

DIAMETER

WEIGHT

- ע Ideal diameter Suitable for all performance categories







38

5

0.9

32



-

MASTER 8.5

mountains.

⊾ Larger diameter

⊌ High number of falls

CLIMBING AND MOUNTAINEERING

It could be called the toughest rope in our

diameter and an extremely high number of

falls it has become the obvious choice for

those looking for the longest life in relation

to the diameter of the rope within mountain

climbing. It's great as a first rope for the

half rope portfolio. Thanks to the larger







MASTER PRO 9.7			MASTER TeF	IX® 9	0.0	
After careful testing by profession it was nicknamed indestructible. I the SBS PRO braid system, which high durability, excellent handling smoother carabiners performance	al climb t is due t provide and e.	ers, to s	Lightweight rope enha technology, the perfect rope, which is thus mo lasting. Certified by as Those who go into the use them for their activ and reliable single rope	inced with t compac- re durabl single, ha mountain vities with e.	h TeFI) ctness le and alf and ns anc n a ligh	رہ c lc c lr tv
צ SBS PRO צ Resistance צ Popular diameter			ע TeFIX® technology Low weight Triple certification	1		
SPORT CLIMBING			SPORT CLIMBING			
D097TP41S000C TURC D97TP42S000C GREA	QUOISE		D090MF41S000C	- 1	PINK TURQUC	-
EN 892, 🚱 1019	1		EN 892, @1019	1	12	
DIAMETER	9.7	mm	DIAMETER	9	9	
WEIGHT	65	g/m	WEIGHT	55	55	
NUMBER OF UIAA FALLS	9		NUMBER OF UIAA FALLS	6	19	
MAX. IMPACT FORCE	8.5	kΝ	MAX. IMPACT FORCE	8.9	6.5	
SHEATH SLIPPAGE	-0.4	%	SHEATH SLIPPAGE	0	0	
DYNAMIC ELONGATION	30	%	DYNAMIC ELONGATION	31	29	
	0.9	-	KNOTABILITY	0.9	0.9	
KNOTABILITY			1			
KNOTABILITY NUMBER OF BOBBINS	40		NUMBER OF BOBBINS	48	48	



SELECTION OF A SUITABLE CLIMBING ROPE

SELECT THE IDEAL ROPE FOR YOUR CLIMBS

A climbing rope is a key piece of equipment for every climber, to ensure safety and stability during climbs. Ropes are divided into different types according to their diameter, length and properties: Single ropes are used alone. Halfropes and twin ropes are used in pairs for specific climbing techniques.

ROPE	TYPE OF SHEATH	TECHNOLOGY	CERTIFICA- TION	BEGINNER	ADVANCED	EXPERT	ICE/MIX CLIMB- ING	ALPINE CLIMB- ING	BIG WALL	SPORT CLIMB- ING	PRO- JECTING	ONSIGHT	INDOOR	TOPROPE
ALPINE 7.9	TANDEM		(12) (12) (12) (12) (12) (12) (12) (12)	o	•	o	0	•						
AMBITION 8.5	TANDEM		12	•	o		o	•						
AMBITION 9.8	TANDEM		1	•	•					•	•		•	0
AMBITION 10	SBS		1	•	o					٠	•		•	0
AMBITION 10.5	TANDEM		1	•						o	•		•	0
AMBITION TeFIX® 10.2	TANDEM	TEFIX	1	•					o	•	o		•	0
ANNIVERSAL 9.5	TANDEM		1	•	•	•	o	•	٠	•	•	•	•	•
HATTRICK 9.7	SBS	SECURE	1	o	•	o			o	•	•		•	•
HATTRICK 10.2	SBS	SECURE	1	•	o				٠	o	•		o	•
INDOOR 9.8	TANDEM		1	•	o					o			•	•
IND00R 10.2I	TANDEM		1	•									0	•
TRUST 11	TANDEM		1										o	0
MASTER 7	TANDEM		0			•	0	•						
MASTER 7.8	TANDEM		12 10 10 10 10 10 10 10 10 10 10 10 10 10		•	•	•	•			o			
MASTER 8.5	TANDEM		12 00	•	0		•	•			•			
MASTER 8.6	TANDEM		0@@			•		•		•		•		
MASTER 9.4	SBS		1		•	•	0			•	0	0	•	
MASTER 9.7	SBS		1	o	•	o				•	o		•	0
MASTER PRO 7.6	SBS PRO		12 00		•	•	•	•			•			
MASTERPRO 8.9	SBS PRO		0@@		o	•	•	•		•		•		
MASTERPRO 9.2	SBS PRO		1		•	•	o			•	•	o	•	
MASTERPRO 9.7	SBS PRO		1	o	•	o	0		•	•	•		•	o
MASTERTEFIX TeFIX® 9	TANDEM	TEFIX	0@@		o	•	•	•		o		•		
MASTERTEFIX TeFIX® 9.7	SBS	TEFIX	1	•	•	0	0		0	•	0		•	0



When choosing a rope, it is important to consider the type of climbing and then the diameter, length and other parameters. Detailed instructions on how to choose the right climbing rope can be found on our website.



enthusiasts who love to get through mountain riverbeds and narrow gorges, rappelling down waterfalls, swimming through pools, sliding down natural

formations and love to rappel

of the caves.

down into the mysterious darkness













SALAMANDER 10	.2		SPELEO 9.0) -	11.	0	
Lightweight floating rope with Secure technology, which ensures minimal stretch. It has thicker braid. Thanks to its construction and the materials, its shrinkage is minimized in humid environments			Rope developed specifically for the of all cavers. It is characterized by lc elongation, high static strength and abrasion resistance. With increasing diameter the strength of the rope in				
ש Secure technology Floats Minimal shrinkage	צ Resistance צ Strength Low elongation						
C102T5415000C	YELLOW/RED		S090TS41S000C S100TS41S000C S105TS41S000C S110TS41S000C	4 4 4 4		WHITE WHITE WHITE WHITE	
EN 1891, @ 1019			EN 1891, @ 1019)			
DIAMETER*	10.2	mm	DIAMETER	9	10	10.5	
WEIGHT	60	g/m	WEIGHT	48	63	72	
MIN. NUMBER OF FALLS **	20		MIN. NUMBER OF FALLS	8	16	20	
RELATIVE MASS OF SHEATH	41.7	%	REL. MASS OF SHEATH	42	40	46	
SHEATH SLIPPAGE	0	%	SHEATH SLIPPAGE	-0.3	0	0.1	
ELUNGATION (50-150KG)	2.5	%	ELUNGATION	4.1	3.7	3	
TENACTTY	0	% kN	TENACTTY	10	1.8	1.4	
MIN. TENACITY WITH MADE	10	kN	MTN, TENACTTY W/ KNOT	19	16	10	
MATERTAI	13 pa/ddv	K IN		, 12 pA	DV TO	DV TO	
TYPE	rajerv		TYPE	R	ρ _Α	ρ _Α	
FLOATING	YES		FLOATING	NO	NO	NO	
•							

all



TENSTE







Comprehensive equipment for all tree climbers. Whether you are working on maintenance urban greenery, or perform professional in the tree canopy, we offer you'll find equipment that combines high durability with maximum flexibility, so you can work efficiently and safely in the most demanding conditions.







PRUSIKS 8 AND 10 MM

The use of the PES/TECHNORA material combination results in a better thermal and mechanical resistance of the sheath. Supplied in any length or as prusiks made to measure with sewn eyes.

P080TA000 RED P100TA000 YELLOW/BLACK

M-XL XXL 1780 1820 g EN 566, EN795B, 🕥 1019

 \bigtriangleup





10 mm

73 g/m

25 kN

NO

PES/TECHNORA

TIMBER 3

Reep cord in color clearly visible in the treetops.

TIMBER 8 & 10

Auxiliary cord made of PES/TECHNORA material with increased thermal and mechanical resistance of the braid.

8

54

20

YES

PES/TECHNORA

A080TP21S000C

EN 564, ⓒ 1019

ROPE DIAMETER

WEIGHT

TENACITY

MATERIAL

UIAA

A100TP41S000C

A030TT21S000C ORANGE

ROPE DIAMETER	3 mm
WEIGHT	2,5 g/m
TENACITY	0,8 kN
MATERIAL	PE



THROWING BAG

Rope bag for throwing rope in three colors designs. Made of synthetic material fitted with a textile mesh on one side, on the other side steel mesh on the other side.

XTIMBERBAG300 XTIMBERBAG350 XTIMBERBAG400						
CC 1019						
WEIGHT	300	350	400	G/M		



HELMET MOUSE

The MOUSE WORK safety helmet provides maximum protection (electrical insulation, liquid metal splash, side deformation and low temperature use). Universal size (52-64 cm), available in three colors in three colors (red, yellow, white).

99718AR02KK R	ED
99718AW02KK W	HITE
99718AY02KK Y	ELLOW
EN 397	



HOLE DIAMETER IN AXIS

18 mm



Aluminium

STEEL TREE CLIMBING SPIKES DR 2A

Aluminium tree climbing treads with high shin 11 mm thick padding – fixation with leather straps. The footbed set comes with 2 pairs of interchangeable* hardened steel spikes: **Chart** - 43 mm inner edge

Snort – 43 mm inner eage
ע Long – 67 mm inner edge

XDR-2A

Rollers

MATERTAL Aluminium alloy, steel, leather

STEEL TREE CLIMBING SPIKES DR 1

Steel climbing feet with adjustable calf padding, which is equipped with a metal plate supporting the foot, connected jointed with an arch. With high shin support - 11 mm thick padding - fixation with leather straps. The set of footrests is supplied with 2 pairs of interchangeable* hardened steel spikes:

Ы	Short
Ы	Long -

XDR-1

MATERIAL Steel, leather



ARBORIST MINI PULLEY

Simple rope pulley made of forged aluminium, fitted with ball bearing.

EN 12278:2007

DIMENSIONS	80×40×37 mm	
WEIGHT	105 g	
MIN. TENACITY	25 kN	
LOADING CAPACITY	5 kN	
SAFETY FACTOR	5:1	
MAX. ROPE DIAMETER	DO 13.5 mm	
HOLE DIAMETER IN AXIS	16 mm	





- 43 mm inner edge 67 mm inner edge



















AT HEIGHTS AND RESCUE





eSTATIC 11.0

High performance static rope with polyamide core and polyester braid. It features less static elongation, is less susceptible to moisture, more resistant to abrasion. Available in vibrant colors suitable for work on roofs, for example, or for better orientation in the ropes during handling in rope handling.

- ע Durability
- ${\bf \varkappa}$ Less static elongation
- u Color design
- L110NE41S000C
 WHITE

 L110NE42S000C
 YELLOW

 L110NE43S000C
 ORANGE

 L110NE44S000C
 PURPLE
- EN 1891:1998, typ A / NFPA 2500 Tech. Use
- DIAMETER 11 mm WEIGHT 84 g/m MIN. NUMBER OF FALLS 20 RELATIVE MASS OF SHEATH 43 % SHEATH SLIPPAGE 0,3 % ELONGATION (50-150KG) 2,6 % SHRINKAGE -2 % TENACITY 35 kN MIN. TENACITY WITH KNOTS 20 kN MATERIAL *PES/PA TYPE А

A rope where safety comes first . Unique sandwich construction knitted layers and

SECURE 10.5-11

the use of specially developed staple fibers ensures the rope's ability to hold a suspended person or load even in the event of a significant damage to the braid or core without causing complete breakage of the rope. Suitable everywhere, where there is a risk of mechanical damage to the rope.

צecurity Secure technology Colorful design

L105TE41S000C	Sec. 1	RED/YELLOW
L105TE42S000C		YELLOW/RED
L110TE43S000C	·*****	YELLOW/BLUE
L110TE44S000C	***	BLUE/YELLOW
L110TE57S000C	1111111	BLACK



STATIC 9.0 TYPE A

Thanks to its unique design and state-ofthe-art technology, the rope meets the EN standard 1891 Type A, thus providing a full-fledged static rope that can be used for rigging in every situation. Perfect for emergency services where the weight difference can play a crucial part.

ע Low diameter ג Low weight and volume א Meets Type A

L090TS41A000C WHITE

WETCHT	61	a / 1
MTN, NUMBER OF FALLS	5	9/1
RELATIVE MASS OF SHEATH	41	,
SHEATH SLIPPAGE	0	,
ELONGATION (50-150KG)	3,3	?
SHRINKAGE	1,9	?
TENACITY	24	kľ
MIN. TENACITY WITH KNOTS	15	k١
MATERIAL	PA	
TYPE	А	

aid/



STATIC 9.0-13.0

Great static ropes for all rope access technicians. They are characterized by low elongation and also high static strength. Ideal ropes for work at heights or for securing people over open space. Available in three colors and a total of six diameters. The strength of the rope increases with increasing diameter.

Low extensibility							
Multiple diameters							
L###TS41S000C	WHITE						
L###TS42S000C	RED						
L###TS43S000C	BLUE						
	5202						
REPLACE ### WITH THE APPRO	PRIATE DIA	METER	CODE Ø	90/100	/105/1	10/120	/130
EN 1891, 🞯 1019							
EN 1891, ⓒ 1019	9	10	10,5	11	12	13	mm
EN 1891, ⓒ 1019 Diameter Weight	9 51	10 69	10,5 70	11 80	12 90	13 109	mm g/m
EN 1891, ⓒ 1019 DIAMETER WEIGHT MIN. NUMBER OF FALLS	9 51 9	10 69 20	10,5 70 20	11 80 20	12 90 20	13 109 20	mm g/m
EN 1891, ⓒ 1019 DIAMETER WEIGHT MIN. NUMBER OF FALLS RELATIVE MASS OF SHEATH	9 51 9 49	10 69 20 38	10,5 70 20 37	11 80 20 39	12 90 20 34	13 109 20 45	mm g/m %
EN 1891, (C) 1019 DIAMETER WEIGHT MIN. NUMBER OF FALLS RELATIVE MASS OF SHEATH SHEATH SLIPPAGE	9 51 9 49 0,4	10 69 20 38 0,1	10,5 70 20 37 0	11 80 20 39 0,3	12 90 20 34 0.5	13 109 20 45 0	mm g/m %
EN 1891, () 1019 DIAMETER WEIGHT MIN. NUMBER OF FALLS RELATIVE MASS OF SHEATH SHEATH SLIPPAGE ELONGATION (50-150KG)	9 51 9 49 0,4 5	10 69 20 38 0,1 4,1	10,5 70 20 37 0 3,4	11 80 20 39 0,3 3,7	12 90 20 34 0.5 3,2	13 109 20 45 0 3,1	mm g/m % %
EN 1891, () 1019 DIAMETER WEIGHT MIN. NUMBER OF FALLS RELATIVE MASS OF SHEATH SHEATH SLIPPAGE ELONGATION (50-150KG) SHRINKAGE	9 51 9 0,4 5 -0,6	10 69 20 38 0,1 4,1 2	10,5 70 20 37 0 3,4 1,9	11 80 20 39 0,3 3,7 0,1	12 90 20 34 0.5 3,2 1,8	13 109 20 45 0 3,1 0,6	mm g/m % %
EN 1891, () 1019 DIAMETER WEIGHT MIN. NUMBER OF FALLS RELATIVE MASS OF SHEATH SHEATH SLIPPAGE ELONGATION (50-150KG) SHRINKAGE TENACITY	9 51 9 0,4 5 -0,6 21	10 69 20 38 0,1 4,1 2 31	10,5 70 20 37 0 3,4 1,9 32	11 80 20 39 0,3 3,7 0,1 33	12 90 20 34 0.5 3,2 1,8 41	13 109 20 45 0 3,1 0,6 41	mm g/m % % % kN
EN 1891, () 1019 DIAMETER WEIGHT MIN. NUMBER OF FALLS RELATIVE MASS OF SHEATH SHEATH SLIPPAGE ELONGATION (50-150KG) SHRINKAGE TENACITY MIN. TENACITY WITH KNOTS	9 51 9 49 0,4 5 -0,6 21 13	10 69 20 38 0,1 4,1 2 31 17	10,5 70 20 37 0 3,4 1,9 32 18	11 80 20 39 0,3 3,7 0,1 33 20	12 90 20 34 0.5 3,2 1,8 41 25	13 109 20 45 0 3,1 0,6 41 26	mm g/m % % % kN kN
EN 1891, () 1019 DIAMETER WEIGHT MIN. NUMBER OF FALLS RELATIVE MASS OF SHEATH SHEATH SLIPPAGE ELONGATION (50-150KG) SHRINKAGE TENACITY MIN. TENACITY WITH KNOTS MATERIAL	9 51 9 49 0,4 5 -0,6 21 13 PA	10 69 20 38 0,1 4,1 2 31 17 PA	10,5 70 20 37 0 3,4 1,9 32 18 PA	11 80 20 39 0,3 3,7 0,1 33 20 PA	12 90 20 34 0.5 3,2 1,8 41 25 PA	13 109 20 45 0 3,1 0,6 41 26 PA	mm g/m % % % % kN kN
EN 1891, C 1019 DIAMETER WEIGHT MIN. NUMBER OF FALLS RELATIVE MASS OF SHEATH SHEATH SLIPPAGE ELONGATION (50-150KG) SHRINKAGE TENACITY MIN. TENACITY WITH KNOTS MATERIAL TYPE	9 51 9 49 0,4 5 -0,6 21 13 PA B	10 69 20 38 0,1 4,1 2 31 17 PA A	10,5 70 20 37 0 3,4 1,9 32 18 PA A	11 80 20 39 0,3 3,7 0,1 33 20 PA A	12 90 20 34 0.5 3,2 1,8 41 25 PA A	13 109 20 45 0 3,1 0,6 41 26 PA A	mm g/m % % % kN kN

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STATIC NFPA 10.5–12.0

Powerful static ropes with low elongation and high strength. Great for working at heights and for securing persons above free depth. They are certified and meet the life saving requirements of NFPA 2500 (1983), 2022 ED and also according to the European standard EN 1891:1998.

Meet NFPA 200 (1983), 2022 ED Characteristic
Strength
צ Low elongation
L105NS41S000C
L110NS41S000C WHITE
L120NS41S000C WHITE

DIAMETER	10.5	11	12	mm	DIAMETER	10.5	11	12	mm
WEIGHT	72	82	87	g/m		0.413	0.433	0.472	ir
MIN. NUMBER OF FALLS	20	20	20		MBS*	29	40,5	42	kN
RELATIVE MASS OF SHEATH	34	33	35	%	MBS**	6519	9105	9442	lbs
SHEATH SLIPPAGE	0	-0.1	4	%	WEIGHT	72	83	87	ç
ELONGATION (50-150KG)	3.6	3.5	3.2	%	ELONGATION (10% MBS)	7	8.4	7.4	2
SHRINKAGE	0.3	4.5	1.8	%	ELONGATION 1.35 KN (300 LBF)	4.1	3.6	2.3	%
TENACITY	32	40.5	42	kΝ	ELONGATION 2.70 KN (600 LBF)	6.4	6.2	4.7	2
MIN. TENACITY WITH KNOTS	17	15	25	kΝ	ELONGATION 4.40 KN (1000 LB	9.5	9.5	7.8	2
MATERIAL	PA	PA	PA		CLASSIFICATION	TECH	GEN	GEN	
TYPE	А	А	А						



STATIC NFPA 16.0

Excellent performance rope with low elongation and high static strength. It is designed for working at heights and for securing persons above free depth. We recommend especially for rescue operations, high-altitude work and securing persons above open space, for armed forces and police. Rope is certified and meets the requirements for life saving according to NFPA 2500 (1983), 2022 ED.



NFPA 2500 (1983), 2022 ED

g

DIAMETER	16	mm
	0.629	in
MBS*	56	kΝ
MBS**	12589	lbs
WEIGHT	160	g
ELONGATION (10% MBS)	9.4	%
ELONGATION 1.35 KN (300 LBF)	1.2	%
ELONGATION 2.70 KN (600 LBF)	3.0	%
ELONGATION 4.40 KN (1000 LBF)	5.8	%
CLASSIFICATION	GENERAL	
(standard)		
$\checkmark \lor$		

TeN**©**TE 2.0 Tendon Electronic Note System

DOWNLOAD NOW





TENOTE 2.0 APP and mobile approach to identification, marking and recording of work and climbing ropes.

More information at www.mytendon.com









Maximum performance, safety and reliability in the toughest conditions, these are the main requirements for ropes in the category Military. Whether for military operations, special training or rescue missions, these ropes simply do not disappoint.











	A STEEL END CAP	
REFLECTIVE 11.0		FAST ROPE
Specially developed rope wit reflective light to facilitate ide rope in darkness or low visibi is especially appreciated by r cavers and divers.	h braided entification the lity. This feature escue workers,	For the production of the uniq which provides high comfort v breakage. The 44 mm diamete control during rappelling with across the globe, we also supp
צ Reflective indicator light צ Durability Low elongation		 High strength braided eye durability, for frequent stre load, e.g. during training.
L110TS49S000C	BLACK	Express mesh (sewn eye lid lightweight and especially sl with large strength. The sha protected by PES ripstop fal protects against punctures a Simple Check seams and ex removing protection, in case the rope can be.
		ュ Eye with metal end cap (ey
EN 1891, ⓒ 1019		metal termination) for vario
DIAMETER	11 mm	hooks
WEIGHT	80 g/m	
MIN. NUMBER OF FALLS	20	
RELATIVE MASS OF SHEATH	39 %	@1010
SHEATH SLIPPAGE	0,3 %	
ELONGATION (50-150KG)	3,7 %	DIAMETER OF THE ROPE IN TENSION E
SHRINKAGE	1,9 %	ROPE DIAMETER WITHOUT TENSION
TENACITY	33 kN	WEIGHT OF ROPE IN TENSION, EN 230
MIN. TENACITY WITH KNOTS	20 kN	WEIGHT OF ROPE WITHOUT TENSION
MATERIAL	PA	MIN. STRENGTH WITH BRAIDED TEXTI
IIFE	A	MIN. STRENGTH WITH SEWN MESH WITH
SEWN ENDS ON REQUEST		MIN. STRENGTH WITH METAL END CAP MIN. STRENGTH WITH SEWN LOOPS (F. ELONGATION OF THE ROPE, IN PREST











and effective climbing or working at heights





ACCESSORY CORDS	PREVIEW		DIAMETER (mm)	WEIGHT (g/m)	MIN. TENACITY (daN)
Reep cords made of high durable material, they excel in strength, low	A040TR41S100R	BLUE/YELLOW	4	12,7	340
weight and excellent flexibility for easy	A040TR42S100R	RED	4	12,7	340
nandling.	A050TR41S000R	YELLOW	5	18,9	510
	A050TR42S000R	BLUE	5	18,9	510
	A060TR41S000R	GREEN	6	25	1000
	A060TR42S000R	RED	6	25	1000
	A070TR41S000R	RED	7	34	1300
	A070TR42S000R	YELLOW	7	34	1300
	A080TR4S000R	RED	8	43	1460
	A080TR41S100R	ORANGE	8	43	1460
ARA	A060TA41S100R	BLACK	6	22,9	1650
REFLEC	A060TR44S100R	BLACK	6	23,2	1000
	A060TT41S000R	WHITE/RED	6	23,2	1000
POWER CORDS	PREVIEW		DIAMETER (mm)	WEIGHT (g/m)	MIN. TENACITY (daN)
Durable, easily knotted auxiliary cord,	A020TH41S100R	BLUE	2	2.8	120
suitable for securing climbing equipment.	A020TH42S1003	YELLOW	2	20	120
			2	2,0	120
	A030TH41S00R	BLUE	2	6,5	190
	A030TH41S00R	BLUE BLACK	3	6,5 6,5	190 190
	A030TH41S00R A030TH42S00R A090TR41S100R	BLUE BLACK RED	2 3 3 9	6,5 6,5 54,4	190 190 1900
	A030TH41S00R A030TH42S00R A090TR41S100R	BLUE BLACK RED	2 3 9	6,5 6,5 54,4	120 190 190
TUBULAR TAPE	A030TH41S00R A030TH42S00R A090TR41S100R	BLUE BLACK RED	2 3 9 WIDTH (mm)	6,5 6,5 54,4 TENACITY (KN)	120 190 190
TUBULAR TAPE Tubular tape for various uses, for example to connect the chest and seat harness. Available in different widths, strengths and	A030TH41S00R A030TH42S00R A090TR41S100R	BLUE BLACK RED	2 3 9 WIDTH (mm) 19	6,5 6,5 54,4 TENACITY (KN)	120 190 1900
TUBULAR TAPE Tubular tape for various uses, for example to connect the chest and seat harness. Available in different widths, strengths and more color options.	A030TH41S00R A030TH42S00R A090TR41S100R PREVIEW 12C3PAPOEXP20 12C3PAPOEXP20	BLUE BLACK RED RED BLACK	2 3 3 9 WIDTH (mm) 19 19	6,5 6,5 54,4 TENACITY (KN) 15	120 190 1900
TUBULAR TAPE Tubular tape for various uses, for example to connect the chest and seat harness. Available in different widths, strengths and more color options.	A030TH41S00R A030TH42S00R A090TR41S100R PREVIEW 12C3PAPOEXP20 12C3PAPOEXP20 12C3PAPOEXP25Č	BLUE BLACK RED BLACK BLACK RED	2 3 3 9 WIDTH (mm) 19 19 25	6,5 6,5 54,4 TENACITY (KN) 15 15 20	120 190 1900





Kong blocker/positioner designed for ropes with diameters between 8 and 13 mm. flat and hollow loops in widths from 10-15 mm. Thanks to the small It can be handled with one hand. The large diameter of the hole allows rotation of the carabiner. It is designed for ascent maneuvers and self-locking.

'8' Italian brand Kong used mainly for rope climbing.

	CHEST BLOCKER
X88800NB00KK CYAN	X82400R400KK RED
X88800NG00KK GREEN	X82400N400KK BLACK
X88800NN00KK BLACK	X824000400KK ORANGE
X88800NR00KK RED	X82400B400KK BLUE
Standard EN 576 Weight 70 g	EN 576 160 g

CARABINERS

Kong and Protekt climbing and working carabiners. Available in multiple color options. Full range of carabiners available on request.

\bigcirc	

Weight

X786MAØDBDKK	GRAY		X719H30D00KK	SI
X786MAØNNNKK	BLACK		X719H30B00KK	CY
X786MAØONOKK	ORANGE			
X786MAØRNPKK	RED			
X786MA0PPPKK	POLISHED			
ID #	X786		X719	
Standard EN	1227	- 5, 362B	12275	
Major axis strength	22 kl	N	21 kN	
Minor axis strength	n 8 kN		8 kN	
Open gate strength	6 kN		7 kN	

90 g













GEAR BAG SPECIALLY DESIGNED FOR THE **NEEDS OF CLIMBERS**







HELMETS ORBIX

system.

- ∠ Very light weight
- Ventilation with 17 holes لا

XT-ORBIXGREEN20 XT-ORBIXRED ○ XT-ORBIXWHITE

(EN 12492)

MATERIAL: OUTER SHELL MATERIAL: INNER SHELL SIZE WEIGHT

GEAR BAG

Backpack specially designed for the needs of climbers. Almost fullcircle zipper allows convenient access to the main compartment, where additional pockets and loops for organizing equipment. On the top of the backpack there is a handy a pocket for small items. The back system includes removable mattress for sitting. The backpack has a padded back, anatomically shaped shoulder straps and adjustable waist and chest straps. In the case of a full main compartment, the drawstring straps on the top on the upper part of the backpack, a rope can be attached. The backpack is supplied with a tarp under the rope.

- water-repellent finish

XTENDON GEAR BAG S XTENDON GEAR BAG S

MATERIAL OF UPPERS DIMENSIONS (W×H×D) CAPACITY

Ergonomically padded interior, ventilation with 17 holes and a fully adjustable chin strap. Simply adjustable

ы 3 headlamp attachments

POLYCARBONATE EPS UNI 54/62 cm 270 g

- Padded back Includes a rope tarpaulin with cover
- ightarrow Rope can be attached from the top using the drawstring straps Σ Top material made of robust polyester with PU coating and

1000D polyester 34×56×26 cm 45 1













HARNESS JAMMY

Very lightweight unpadded harness for via ferrata, mountains and glaciers. It is produced in a universal size with reinforced binding with a reinforced tie-down point, a color-coded belay eye and a material loop. Also suitable for artificial climbing walls, climbing schools and ski mountaineering.

XT-JAMMY

EN 12277, ⓒ 1019

Waist size Leg loops size Weight

60↔120 cm

42↔66 cm 370 g

Waist size Leg loops size Weight

XT-COMP



HARNESS CANYON SIT

HARNESS SCOUT

A simple, unpadded canyoning harness, based on the design of the Jammy harness. Made of strong, durable material waterproof. Removable neoprene protector and reinforced tie-down points make it an ideal part of your canyoning gear.

g

XT-CANYON

EN 12277, ⓒ 1019

Waist size	60↔120
Leg loops size	42↔66
Weight	550

XT-SCOUT GIRTH OF GIRTH Weight



HARNESS COMP

A bindings designed especially for via ferrata and beginners. It has reinforced legs and tie points, and for attaching the material it has one strap. It optimizes the position of the body when hanging on the rope or after a fall. Prevents upside down twisting.



65↔120 cm 42↔66 cm 505 g



The SCOUT chest harness is used in combination with a sit-up harness. Two buckles are used for adjustment and according to the position of the harness it is possible to select The height of the attachment can also be adjusted.

Attention! Do not use the chest harness alone.

75**←**→110 cm 240 g



ROPE CLEANER

Highly effective concentrated enzymatic detergent 0.5 l. The advantage of the detergent gel is that it dissolves well in water and it leaves the ropes as they were before washing. Not only in terms of the colors, but especially of their physical properties.

XPRACIGEL03

MAGNESIUM

Magnesium (magnesium carbonate) in a practical plastic container Perfect natural chalk specially designed for mountaineering activities.

XTENDON MAGNESIUM

WEIGHT 350 g

ROPE PROTECTOR

Protection of the rope against penetration when moving over the edge. Durable PVC case with easy Velcro closure.

ROPE_PROTECTOR

ROPE TARP

Black tarp in 120×120 cm with practical braided handles. Protects the rope from dust and dirt.

XT-ROPE TARP BLACK

ROPE CUTTER + CUTTING BLADE

Equipment for rope cutting. Supplied separately as cutter and blade.

TAVNÁ ČEPEL TYP R - XCEPEL-R

ŘEZAČKA HSG – XPAJKA-HSGO

ROPE MARKER

Tendon permanent marker, its composition will not damage the structure of the rope and you'll find the markers where you drew them.

XROPE MARKER



Enhance your outfit with a fashion accessory and support a good cause and sustainability at the same time. How to do it? Get an original accessory from our Green Way range. This entire collection is made from leftover braid material in a sheltered workshop near Frýdek-Místek. By buying it you will do two good things deeds. Improve your karma every day!







HOODIE UNISEX

Pleasant and comfortable material with zipper full length. Fluorescent elements and large hood with contrasting color in micro perforated fabric and two pockets.

SIZE S, M, L, XL, XXL Material 85% cotton, 15% viscose ID NUMBER TENDON HOODIE BLACK S-XXL



TEE W'S

Women's short sleeve cotton t-shirt with a slightly fitted cut.

SIZE S, M, L, XL MATERIAL 100% COTTON WEIGHT 160 g/m² ID NUMBER TENDON WOMAN S-XL BLACK



TEE M'S

Men's cotton T-shirt with short sleeves and a round neckline, comfortable to wear.

SIZE S, M, L, XL, XXL MATERIAL 100% COTTON WEIGHT 160 g/m² ID NUMBER TENDON MAN S-XL BLACK



SNAPBACK CAP

Stylish Tendon cap with straight visor and embroidery in a combination of bright neon and white.

SIZE ONE SIZE Id number xtendon cap black



CAP

Close-fitting cap made of breathable elastic soft material construction with high thermal insulation for extreme climates conditions. Ideal under a helmet when climbing.

SIZE ONE SIZE Material Roubaix - 80% Polyester, 20% elastane id number XCAP green / black



MULTI-FUNCTIONAL SCARF

Practical multi-functional scarf that protects you from wind, snow and sun. You can into a headband, a hood, a pirate, a scarf for or a hairband.

SIZE ONE SIZE MATERIAL 100% POLYESTER ID NUMBER XHEADSCARF GREEN / BLACK



BELT

length.

7

LENGTH 122 cm

ID NUMBER XTBELTX.XX

N V N V

BACKPACK

Braided material was used for production climbing rope, which we recycle and to make a practical and elegant accessory. Zipper closure and plastic clasp. Available from available in two colors.

CAPACITY **12 1** DIMENSIONS (W×H) **32×43 cm** ID NUMBER **XT-TEXTILE BAG 12**





SHORT KEY CHAIN

Original short keyring made of braids climbing ropes available in various in different colors.

made of climbing rope braids

Original key chain in extended version,

LONG KEY CHAIN

LENGTH **10 cm** ID NUMBER **KEYCHAINX.XX** LENGTH **45 cm** Id number **longchainx.xx**



Unique belt made of braided climbing rope material, available in multiple colors in one



BRAIDED BRACELET

Stylish bracelet with practical clasp available with stud or clasp in three sizes and different colors designs.

SIZE 20/22/24 cm ID NUMBER XBRACELETX.XX





NALGENE BOTTLE

Nalgene bottle in original Tendon design should not be missing in any climbing gear. It has a handy flip-up cap with an antiopening lock and is impact-resistant.

SIZE 650 ml Id number xnalgene bottle

TENDON ACADEMY

STORAGE LIFE

LTFESPAN

DYNAMIC AND STATIC ROPES

THE MAXIMUM STORAGE LIFE IN UNUSED CONDITION WITHOUT LIMITATION TO LIFE SPAN MAKES UP TO 5 YEARS.

This is conditional on optimum storage conditions: clean place protected against light, without chemical, physical and mechanical effects, in normal climate of 15-25 °C and a relative humidity of about 65%. An examination of the rope by competent person authorized by the manufacturer) once every six months is mandatory.

In the process of rope production, the fibers are mechanically doubled, twisted and braided in several stages. In this way fibers finally attain a condition of mechanically induced stress. A long-term storage leads to retardation and relaxation. This means that stress in macromolecules is "relieving". This phenomenon is not harmful, on the contrary it is connected with an improvement of dynamic properties. Research works showed that the result of tests of dynamic performance of ropes that had been (optimally) stored for several vears were often better than values measured immediately after production. Polyamide also does not contain additives and softeners like, for example, PVC that could diffuse out. This is the reason why no embrittlement occurs.

In addition, the in-the-meantime standardized finishing of fibers by nanotechnological treatment offers an additional protection. In case of present-time advanced materials, a considerable negative change of properties of the product in a time interval of 5 years can be excluded provided that optimum storage conditions are maintained.

DYNAMIC ROPE

Due to different influences on use and specialities of use it is impossible to give an exact numerical value, only a roughly estimated time value can be specified.

Depending on frequency and intensity of use, external effects as abrasion, contamination, mechanical loading (static), rope work (lowering and/or abseiling), loading by falls (dynamic), intensive action of UV radiation, aggressive climatic conditions etc. lead to reduction of safety reserve of the dynamic rope:

→ The consequences of abseiling and lowering are reduction of dynamic performance and reduction of safety reserve of the rope.

→ Abrasion leads to gradual weakening of consistency of the sheath. Heavier abrasion makes the sheath "hairier" and reduces the loadability of the sheath and its protective effect on the rope core.

→ Particles of impurities and rocks inside the rope, especially in combination with heavy performance of the rope, result in abrasion of fine fibers of the core and the sheath. The particles act as abrasive sand and lead to reduction of the load-bearing cross section of the fibers, especially during frequent abseiling/lowering.

→ Dynamic load results in loss of rope performance - the ability of arresting dynamic (impact) energy decreases. This depends on the hardness of the fall considerably (hardness of the fall is given by the belay method and the fall factor; falls with a fall factor of > 1 are classified as hard falls according to the general state of the art).

investigation performed Safetv bv mountaineering associations reveal that if the rope sheath is not excessively damaged and shows no signs of heavy abrasion, a loading by falls with a fall factor < 0.5 and correct dynamic belaying does not represent a safety risk provided that the rope is not resting on sharp edges.

STATIC ROPE

As to aging of static ropes, it is impossible to give an exact numerical value, only a roughly estimated time value can be specified. This information does not relieve the user of the mandatory examination of the rope by a competent person authorized by the manufacturer) after use.

Depending on frequency and intensity of use, external effects as abrasion, contamination, mechanical loading (static), rope work (lowering and/or abseiling) loading by falls (dynamic), intensive action of UV radiation, aggressive climatic conditions etc. lead to reduction of static and dynamic performance (safety reserve) of the static rope.

The crucial influencing factors for safety of static ropes are external effects, as for instance:

→ Sharp edges that may have fatal consequences even at a slight tension of the rope!

→ Abseiling and lowering (rope work) lead to loss of dynamic and static performance. For instance, frequent abseiling with high load forms clusters of fused (melted) fibers in the rope sheath as a result of the heat inevitably developed by friction.

→ Abrasion leads to gradual weakening of consistency of the sheath. Heavier abrasion makes the sheath "hairier".

→Internal wear - particles of impurities and rocks inside the rope, especially in combination with heavy performance of the rope, result in abrasion of fine fibers of the core and the sheath. The particles act as abrasive sand and lead to reduction of the load-bearing cross section of the fibers, especially during frequent abseiling.

→ Loading by falls – due to the low dynamic elongation, loading by falls with a fall factor of 0,3 or greater must be essentially excluded.

Because, unlike dynamic ropes, the main task of static ropes does not consist in safe catch of falls but in a quasi-static loading with a minimum dynamic stress only, a macromolecular stretching occurs when the rope is used correctly which, however, has no adverse effects on the maximum tensile force and the elongation of the rope. In case of an alternating to repeated (cyclic) loading of up to 20% of the maximum tensile strength of the rope with approximately 10,000 loading cycles, a residual force at break of the rope of > 75% may be expected.

EXAMPLE	TENDON 11 mm	n STATIC
Maximum tensile fo	orce	40,0 kN
Residual force at b	oreak – Knot	16,5 kN
Residual force at br 10,000 cycles of re	reak after approx. peated (cyclic) % (=6 kN)	20 0 KN
Maximum tensile for Residual force at b Residual force at br 10,000 cycles of re loading of up to 200	orce preak – Knot reak after approx. peated (cyclic) % (=6 kN)	40,0 kN 16,5 kN 30,0 kN

E

M

Those parameters shown in example are high above required norm EN1891 for static rope type A.

INDICATIVE ROPE LIFE TABLE

Occasionally used (several times a year) no intensity of use that would be worthwhile of note, no significant mechanical or fall load, no recognizable abrasion or soiling.	8-10 YEARS
Occasional use (several times a year) with high intensity of use, mechanical loading (suspension, occasional lowering or abseiling), without fall arrest. signs of use: slight wear, slight contamination, negligible hairiness.	5-8 YEARS
Frequent use (several times a month) with low intensity of use, without considerable mechanical loading (suspension, occasional lowering or abseiling) or fall arrest. signs of use: no signs of heavy wear, slight contamination, hardly recognizable hairiness.	
Very frequent use (several times a week) with low intensity of use, without considerable mechanical loading or fall arrest. signs of use: signs of heavy wear, slight contamination, recognizable hairiness.	3-5 YEARS
Very frequent use (several times a week) with high intensity of use, mechanical loading (suspension), but without fall arrest. signs of use: signs of wear, obvious hairiness, slight vitrification.	
Intensive use (every day) with normal intensity of use, without considerable mechanical loading or fall arrest. signs of use: obvious wear, obvious hairiness, heavy contamination.	1-3 YEARS
Intensive use (every day) with high intensity of use, mechanical loading (suspension), but without fall arrest. signs of use: heavy wear, vitrification, contamination and hairiness.	≤ 1 YEARS

Extreme loading by falls or other strong mechanical, physical, climatic or chemical effects can damage the rope so heavily that it must be discarded immediately. The rope must be discarded immediately also in case the user has the slightest doubt about the safety and the perfect condition of the rope.

TESTING OF CLIMBING ROPES

IN ACCORDANCE **WITH EN 892**

DIAMETER

This parameter is measured with a 10 kg load for single ropes, 6 kg for half ropes and 5 kg for twin ropes. This would imply that testing the exact diameter of ropes under domestic conditions is quite difficult.

WEIGHT

The mass of a rope is measured for a length of one meter. A single rope without any added finish weights 52 to 88 g/m, a half rope about 50 g and twin rope approximately 42 g/m. The rope's core must account for at least 50% of its total mass.

NUMBER OF STANDARD FALLS

This gives the number of falls the rope being tested under conditions given by the EN 892. This standard requires a minimum of 5 falls with a load of 80 kilograms for single ropes. Half ropes are tested with a 55 kg load. For twin ropes, the two ropes are under a constant load of 80 kilograms and the minimum number of falls is 12. The number of falls withstood during testing is a direct measurement of a rope's margin of safety (strength). In practice, no new rope will break under a sudden load if the rope is in good condition and has been properly handled.

A rope will gradually become less safe as its material ages and as it becomes worn from use, as these factors reduce its strength. Moisture can also reduce a rope's strength by degrading the polyamide fibers used for making the rope.

MAXIMUM IMPACT FORCE

Impact force is the force that occurs during a first fall under defined conditions (mass of the load, fall factor, etc.) and that is absorbed by the rope. Under testing, the impact force increases for each additional test fall the rope is subjected to. How fast the impact force increases determines the number of standard falls withstood. The higher the number of standard falls, the longer the service life of the rope for the user.

The practical use of ropes in real climbing or on training walls is different from laboratory conditions. During standard rope tests, the end of the rope is firmly secured, but in real climbing, belaying equipment and systems allow for some slippage of the rope, breaking the fall dynamically.

Dynamic belaving dissipates some of the fall's energy, thereby lowering the impact force. For that reason, it is important to know how to use appropriate dynamic belaying.

STATIC ELONGATION

Usable static elongation is tested by applying an 80 kg load to the rope. Elongation may not exceed 10% for single ropes (one strand) and twin ropes (two strands tested in tandem) and 12% for half ropes (one strand).

SHEATH SLIPPAGE

Using a special machine, this test determines how much the surface of a rope will slip relative to the core when subjected to a load. The EN 892 establishes that slippage may not exceed 1% (20 mm) when stretching a length of rope measuring 2250 (+/- 10 mm). If the sheath slides over the core during actual climbing, it can lead to bulges and so-called stockings. If the ends of ropes have not been sealed properly, the core at the end of the rope can come loose from the sheath or the sheath may extend longer than the core.

The ends of our ropes are sealed with ultrasound into one indivisible whole and if the limits for slippage are complied with, the situation described above will not occur.

DYNAMIC ELONGATION DURING A FIRST DROP

This parameter measures the elongation of the rope during the first standard drop. The maximum allowable dynamic elongation is 40%. This measurement is a better indicator of the rope's properties than the static elongation value.

KNOTABILITY

One of the most important requirements for mountain climbing rope is outstanding flexibility. How is this measured? A section of the tested rope is tied into a simple knot. Weight is then applied to the rope (10 kg for a single rope). Then the interior diameter of the knot is measured. The ratio between that diameter and the diameter of the rope gives the coefficient of knotability.

ATTENTION Poor rope flexibility practically makes it difficult to tie knots and pass the rope through carabiners of the progressive locking system. The rope flexibility is reduced by the elements and poor care.









SHEAT SLIPPAGE







An in-house test facility including a drop tower was built for testing Tendon ropes. Newly developed ropes go to the European testing laboratories for certification already fully prepared and with known technical parameters. The Tendon ropes are tested mainly in the accredited testing facility in Ostrava - Radvanice.

REQUIREMENTS OF STANDARD EN 892 DYNAMIC CLIMBING ROPES

MONITORED PARAMETER	SINGLE ROPE	HALF ROPE	TWIN ROPE
ROPE DIAMETER	Undefined	Undefined	Undefined
ROPE WEIGHT	Undefined	Undefined	Undefined
SHEATH SLIPPAGE	1% (± 20 mm)	1% (± 20 mm)	1% (± 20 mm)
STATIC ELONGATION	Max. 10% *	Max. 12% *	Max. 10% **
DYNAMIC ELONGATION	Max. 40% +	Max. 40% ***	Max. 40% ++
IMPACT FORCE OF THE FIRST FALL	Max. 12 kN +	Max. 8 kN ***	Max. 12 kN +-
MIN. NUMBER OF FALLS	5 +	5 ***	12 ++

* One strand of rope tested

** Two strands of rope tested

*** One strand of rope tested, 55 kg weight

+ One strand of rope tested, 80 kg weight

++ Two strands of rope tested, 80 kg weight

ATTENTION The fall factor is also decisive for the magnitude of the impact force - it is practically irrelevant, but how big the impact factor is. A 5 m long fall with a fall factor f = 1 will show a much lower impact force than a fall of the same length with a factor of f = 2. The energy of the climber's fall is absorbed by the so-called "active rope length" (in red in the figure).



TESTING **OF ACCESSORY** CORD

IN ACCORDANCE WITH EN 564

DIAMETER

According to EN 564, cords should have diameters of 4, 5, 6, 7 and 8 mm. Diameters 2 mm - avalanche cord, 3 mm for the hammer cord and g mm for the power cord, do not conform to the standard.

STRENGTH

The minimum strengths of cords according to EN 564 are as follows the following table:

DIAMETER (mm)	MINIMUM STRENGTH (kN)
4	3.2
5	5.0
6	7.2
7	9.8
8	12.8

length of fall

TESTING ROPES WITH LOW ELONGATION - STATIC ROPES

DISTRIBUTORS

IN ACCORDANCE WITH EN 1891

DIAMETER

This quantity is measured with a 10 kg load on the rope. The ropes may have a minimum diameter of 8.5 mm and a maximum of 16 mm.

ELONGATION

Usable static elongation is measured by applying a test load of 150 kg (after 50 kg pretensioning). Elongation may not exceed 5%.

STATIC STRENGTH

This is always stated on tags on the ropes. It varies according to the diameter of the rope and the kind of Used material. EN 1891 requires that group A ropes have a minimum static strength of 22 kN and that Type B ropes have a minimum static strength of 18 kN.

ATTENTION! THE MAXIMUM RECOMMENDED

LOAD IS 1/10 OF THE NOMINAL STRENGTH STATED ON THE PRODUCT LABEL.

REQUIREMENTS WITH RESPECT TO MATERIAL PROPERTIES

According to EN 1981, static ropes must be manufactured from a material that has a melting point higher than 195 °C, so they may not be made using polyethylene and polypropylene. Ropes made for those materials for canyoning are not subject to that norm, although they fulfill the norm with respect to static strength and other parameters.

SHEATH SLIPPAGE

This parameter is important mainly during rappelling on static ropes – if this parameter of a rope is insufficient, a safe descent could be endangered by the bunching of the rope's sheath in front of the rappelling brake. For Type A ropes, slippage may not exceed ca. 20 mm for a 2 m length of rope (this applies to ropes with a diameter of up to 12 mm). For Type B ropes, slippage may not exceed 15 mm.

DYNAMIC PERFORMANCE

The testing equipment is similar to that used for testing climbing ropes, except that the rope is ca. 2 m long. At the ends it is tied in figure eight knots and it is tested with five falls with a fall factor of 1. During the test, the rope must withstand all five falls. Type A ropes are tested with a load of 100 kg. Type B ropes are tested with a load of 80 kg.

KNOTABILITY

This is tested in the same way as mountain climbing ropes: it must not be possible to insert a bar with a diameter greater than a multiple of 1.2 times the diameter of the rope into the opening in the knot tightened by the testing force.

MONITORED PARAMETER	TYPE A	TYPE B
ROPE DIAMETER	8.5-16 mm	8.5-16 mm
KNOTABILITY COEFFICIENT	Max. 1.2	Max. 1.2
SHEATH SLIPPAGE	Max. 20 mm*	Max. 15 mm*
ELONGATION	Max. 5%	Max. 5%
SHRINKAGE	Not defined	Not defined
IMPACT FORCE	Max. 6 kN	Max. 6 kN
NO. OF FALLS WITH A FALL FACTOR OF 1	Min. 5	Min. 5
STRENGTH WITHOUT KNOTS	Min. 22 kN	Min. 18 kN
STRENGTH WITH KNOTS	Min. 15 kN (3 minutes)	Min. 12 kN (3 minutes)

*Type A 20 mm + 10 mm up to 12 mm diameter, 20 mm + 5 mm for diameter between 12.1-16 mm.

DIAMETER







KNOTABILITY





ROPES OVERVIEW

ARBORIST

NAME	ø (mm)	COLOR	PREVIEW	ID NUMBER	WEIGHT (g/m)	MIN. NO. OF FALLS	RELATIVE MASS OF SHEATH (%)	SHEATH SLIPPAGE (%)	ELONGATION (50-150 kg)	SHRINKAGE (%)	TENACITY (kN)	MIN. TENACITY W/ KNOTS (KN)	MATE- RIAL	TYPE	PAGE
TIMBER EVO	11	BR. YELLOW		L110 TT41 S000C	88	20	57	0	3.1	0.7	30	18	PES/PA	А	46
TIMBER EVO	11.5	BR. ORANGE		L115 TE42S000C	90	20	54	0.5	3	1	30	18	PES/PA	А	46
TIMBER EVO	12.5	BR. ORANGE	N N N N N	L125 TT41 S000C	104	20	48	0	3	0.6	39	22	PES/PA	А	46
LOWERING ROPE	15	YELLOW/BLACK		L150 TT41S000C	172	-	-	-	-	-	61	-	PES	-	47

MILITARY

NAME	ø (mm)	COLOR	PREVIEW	ID NUMBER	WEIGHT (g/m)	MIN. NO. OF FALLS	RELATIVE MASS OF SHEATH (%)	SHEATH SLIPPAGE (%)	ELONGATION (50-150KG) (%)	SHRINKAGE (%)	TENACITY (kN)	MIN. TENACITY W/ KNOTS (KN)	TYPE	PAGE
ARAMID*	10	BLACK	111111	L100 TA42S000C	67	10	49	0.1	3.5	-2.1	28	15	В	58
ARAMID*	11	BLACK	******	L110 TA41 S000C	81	5	48	1.9	2.9	0	44	18	А	58
FORCE**	10	BLACK	1111111	L100 TF41S000C	68	5	36	0	3.5	2.3	24	13	В	58
FORCE***	11	BLACK	5555555	L110 TF41 S000C	84	5	41	0.5	3.6	3	26	15	А	58
REFLECTIVE	11	BLACK		L110 TS49 S000C	80	20	39	0.3	3.7	1.9	33	20	А	59
STATIC MILITARY ED.	9	BLACK	1.1.1.1.	L090 TS44 S000C	50	15	49	0.4	5	0.6	23	13	В	58
STATIC MILITARY ED.	9	GREEN	15555	L090 TS45 S000C	50	15	49	0.4	5	0.6	23	13	В	58
STATIC MILITARY ED.	9	CAMOUFLAGE	110	L090 TS46 S000C	50	15	49	0.4	5	0.6	23	13	В	58
STATIC MILITARY ED.	9	DESERT STORM		L090 TS4K S000C	50	15	49	0.4	5	0.6	23	13	В	58
STATIC MILITARY ED.	9	SOLID BLACK	\$555555	L090 TS47 S000C	50	15	49	0.4	5	0.6	23	13	В	58
STATIC MILITARY ED.	10	BLACK	Same?	L100 TS44 S000C	69	20	38	0.1	4.1	2	31	17	А	58
STATIC MILITARY ED.	10	GREEN	55555	L100 TS45 S000C	69	20	38	0.1	4.1	2	31	17	А	58
STATIC MILITARY ED.	10	CAMOUFLAGE		L100 TS46 S000C	69	20	38	0.1	4.1	2	31	17	А	58
STATIC MILITARY ED.	10	DESERT STORM	100 B 1	L100 TS4K S000C	69	20	38	0.1	4.1	2	31	17	А	58
STATIC MILITARY ED.	10	SOLID BLACK	\$555555	L100 TS47 S000C	69	20	38	0.1	4.1	2	31	17	А	58
STATIC MILITARY ED.	10.5	BLACK	Same a	L105 TS44 S000C	72	20	36	0.1	3.6	1.9	32	18	А	58
STATIC MILITARY ED.	10.5	GREEN	55555	L105 TS45 S000C	72	20	36	0.1	3.6	1.9	32	18	А	58
STATIC MILITARY ED.	10.5	CAMOUFLAGE		L105 TS46 S000C	72	20	36	0.1	3.6	1.9	32	18	А	58
STATIC MILITARY ED.	10.5	SOLID BLACK	\$555555	L105 T\$47 S000C	72	20	36	0.1	3.6	1.9	32	18	А	58
STATIC MILITARY ED.	10.5	DESERT STORM	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	L105 TS4K S000C	72	20	36	0.1	3.6	1.9	32	18	А	58
STATIC MILITARY ED.	11	BLACK	Sec. 1	L110 TS44 S000C	80	20	39	0.3	3.7	1.9	33	20	А	58
STATIC MILITARY ED.	11	GREEN	11111	L110 TS45S000C	80	20	39	0.3	3.7	1.9	33	20	А	58
STATIC MILITARY ED.	11	CAMOUFLAGE		L110 TS46 S000C	80	20	39	0.3	3.7	1.9	33	20	Α	58
STATIC MILITARY ED.	11	SOLID BLACK	\$555555	L110 TS47 S000C	80	20	39	0.3	3.7	1.9	33	20	Α	58
STATIC MILITARY ED.	11	DESERT STORM		L110 TS4K S000C	80	20	39	0.3	3.7	1.9	33	20	А	58
STATIC MILITARY ED.	12	BLACK	State 1	L120 TS44 S000C	90	20	34	0.5	3.2	1.8	41	25	A	58
STATIC MILITARY ED.	12	GREEN	22222	L120 TS45S000C	90	20	34	0.5	3.2	1.8	41	25	А	58
STATIC MILITARY ED.	12	CAMOUFLAGE		L120 TS46 S000C	90	20	34	0.5	3.2	1.8	41	25	А	58
STATIC MILITARY ED.	12	SOLID BLACK	122223	L120 TS47 S000C	90	20	34	0.5	3.2	1.8	41	25	А	58
STATIC MILITARY ED.	12	DESERT STORM	See and	L120 TS4K S000C	90	20	34	0.5	3.2	1.8	41	25	А	58

Aramid: Tested in acc. to the EN 1891 standard with the exception of impact force
 ** Force 10 mm: Tested in acc. to EN 1891 type B, except for material and markings
 *** Force 11 mm: Tested in acc. to EN 1891 type A with the exception of material and markings

CLIMBING

NAME	ø (mm)	COLOR	PREVIEW	ID NUMBER	WEIGHT (g/m)	NO. (UI/	OF AA)		MAX. IMPAC	T FOR	CE	SHEATH SLIPPAGE	STAT: ELON	EC GATION		DYN ELOI	AMIC NG.		KNOTA- BILITY	NO. OF BOBBINS	SHEATH MASS	PAGE
						1	 12	@	1	12	0	(%)	1	1	0	1	12	@			(%)	
ALPINE	7.9	RED	101010	D079 TL41 S000C	38		5	16		5.7	8.5	0		10.5	8		38	35	0.9	32	44	32
ALPINE	7.9	YELLOW	10000	D079 TL42S000C	38		5	16		5.7	8.5	0		10.5	8	_	38	35	0.9	32	44	32
AMBITION	8.5	YELLOW	WP TO	D085 TB41 S000C	45		9			5.4		0.1		7.6			38		1	32	39.13	30
AMBITION	8.5	BLUE	ACC. C. P.	D085 TB42 S000C	45		9			5.4		0.1		7.6			38		1	32	39.13	30
AMBITION	9.8	YELLOW	1000	D098 TR41 S000C	65	9	-		7.7			0	6.8			36			0.9	40	39.4	30
	0.0	CREEN	10.0	D000 TR425000C	65	0			77			0	6.9			26			0.0	40	20.4	20
AMBITION*	0.0		2226	D000 TR4E5000C	65	9			77			0	6.9			36			0.0	40	20.4	30
	0.0	BD VELLOW	35555	D000 TR495000C	65	0			7.7			0	6.0			30			0.5	40	20.4	20
	10	DED.	00000000	D100TA415000C	67	0			0.0			0.2	- 0.0			30			1	40	20	21
	10	RLU	COLUMN STREET	Dicotatiococ	07	0		_	0.9			0.2	5			22			-	40	20	31
	10	BLUE	0.000	D100 TA425000C	67	9			8.9			0.2	с С О			33			1	40	38	31
AMBITION	10.5	RED	BOOOCO	D105 TA41 S000C	69	9			9.2			0.1	6.9			34			0.8	48	39.2	31
	10.5	BLUE	ana an	D105 1A425000C	69	9			9.2			0.1	6.9			34			0.8	48	39.2	31
AMBITION	10.5	BR. GREEN		D105 1A47 5000C	69	9			9.2			0.1	6.9			34			0.8	48	39.2	31
AMBITION TeFIX®	10.2	YELLOW		D102 AF41S000C	67	11			8.3			0	6.9			33			0.8	40	35.24	31
AMBITION TeFIX®	10.2	ORANGE	14444	D102 AF42S000C	67	11			8.3			0	6.9			33			0.8	40	35.24	31
ANNIVERSAL	9.5	GREEN/BLUE	-	D095 AN41 S000C	57	5			8.3			0.2	8.2			32			0.9	40	40	30
ANNIVERSAL	9.5	BLUE/BR.ORANGE	Color Sector	D095 AN42S000C	57	5			8.3			0.2	8.2			32	_		0.9	40	40	30
HATTRICK	9.7	GREEN/BLUE	and the second	D097 TH41S000C	58	5			9.4			0	8.0			30			1	40	37.02	32
HATTRICK	9.7	RED/BLUE		D097 TH42S000C	58	5			9.4			0	8.0			30			1	40	37.02	32
HATTRICK	10.2	BLUE	actact	D102 TH41S000C	68	6			9.4			0	6.9			33			0.9	40	44.2	32
HATTRICK	10.2	RED		D102 TH42S000C	68	6			9.4			0	6.9			33			0.9	40	44.2	32
INDOOR	9.8	BLACK/BLUE	1.2.2.2	D098 TI41 S000C	63	11			9.0			0	7.9			32			0.9	40	39	33
INDOOR	9.8	BLACK/ORANGE	6.6	D098 TI42 S000C	63	11			9.0			0	7.9			32			0.9	40	39	33
INDOOR	10.2	RED/YELLOW		D102 TI71 S000C	68	7			8.8			0	8.3			34			0.9	40	35.8	33
INDOOR	10.2	YELLOW/GREY	6363	D102 T172 S000C	68	7			8.8			0	8.3			34			0.9	40	35.8	33
MASTER	7	RED	111111	D070 TM41C000C	34			14			9.6	0			8.4			33	0.9	40	41	34
MASTER	7	BLUE		D070 TM42C000C	34			14			9.6	0			8.4			33	0.9	40	41	34
MASTER	7.8	BLUE	22.22	D078 TD42S000C	38		5	16		5.7	8.5	0		10.5	8		38	35	0.9	32	44	34
MASTER	7.8	RED		D078 TD44S000C	38		5	16		5.7	8.5	0		10.5	8		38	35	0.9	32	44	34
MASTER	8.5	GREEN/YELLOW		D085 TF41 C000C	46		10	25		5.3	8.6	0.1		7	7		32	30	0.8	40	46.8	34
MASTER	8.5	KHAKI/BLUE		D085TF42C000C	46		10	25		5.3	8.6	0.1		7	7		32	30	0.8	40	46.8	34
MASTER	8.6	PINK		D086 TM42C000C	50	5	13	30	9.9	7.2	11.5	0.2	5.7	5.8	3.9	30	22	23	0.8	48	34	35
MASTER	8.6	TURQUOISE		D086 TM43C000C	50	5	13	30	9.9	7.2	11.5	0.2	5.7	5.8	3.9	30	22	23	0.8	48	34	35
MASTER	9.4	VIOLET	N. March	D094 TM41 S000C	58	6			7.9			0	6.4			37			0.9	40	37.2	35
MASTER	9.4	BLUE		D094TM42S000C	58	6			7.9			0	6.4			37			0.9	40	37.2	35
MASTER	9.4	BR. ORANGE		D094 TM44 E000C	58	6			7.9			0	6.4			37			0.9	40	37.2	35
MASTER	9.7	YELLOW		D097 TV41S000C	61	7			7.9			0.1	6			37			0.9	40	40.9	35
MASTER	9.7	GREEN	200	D097 TV42S000C	61	7			7.9			0.1	6			37			0.9	40	40.9	35
MASTER*	9.7	GREEN/BLACK		D097 TV45S000C	61	7			7.9			0.1	6			37			0.9	40	40.9	35
MASTER	9.7	NEON	Contraction of the second	D097 TV4A S000C	61	7			7.9			0.1	6			37			0.9	40	40.9	35
MASTER PRO	7.6	GREEN	1	D076 TP41C000C	38		11	28		5.3	8.4	-0.3		10.1	6.1		37	32	1	48	37.2	36
MASTER PRO	7.6	ORANGE		D076 TP42C000C	38		11	28		5.3	8.4	-0.3		10.1	6.1		37	32	1	48	37.2	36
MASTER PRO	8.9	BLACK PINK	1 Sec. al	D089 TP41C000C	52	6	18	40	9.1	6.7	10.7	0.2	6.9	6.9	5.6	31	26	24	0.8	40	35	36
MASTER PRO	8.9	BLACK TURQ.		D089 TP42C000C	52	6	18	40	9.1	6.7	10.7	0.2	6.9	6.9	5.6	31	26	24	0.8	40	35	36
MASTER PRO	9.2	RED	*******	D092 TP41C000C	58	6			9.5			0.1	6.5			35			0.9	40	39.6	36
MASTER PRO	9.2	TURQUOISE	and and the	D092 TP43C000C	58	6			9.5			0.1	6.5			35			0.9	40	39.6	36
MASTER PRO	9.2	NEON		D092 TP4A C000C	58	6	_	_	9.5	_		0.1	6.5			35			0.9	40	39.6	36
MASTER PRO	9.7	TURQUOISE	interests.	D097 TP41 C000C	65	9			8.5			-0.4	9.8			30			0.9	40	37.7	37
MASTER PRO	9.7	GREEN	all the	D097 TP42 C000C	65	9			8.5			-0.4	9.8			30			0.9	40	37.7	37
MASTER TeFIX®	9	PINK	999	D090 MF41C000C	55	6	19	33	8.9	6.5	10.8	0	9.6			31	29	25	0.9	48	34.51	37
MASTER TeFIX®	9	TURQUOISE	2.2	D090 MF42C000C	55	6	19	33	8.9	6.5	10.8	0	9.6			31	29	25	0.9	48	34.51	37
MASTER TeFIX®	9.7	TURQUOISE	-	D097 MF41S000C	61	8			7.9			0	8.1			35			0.8	40	34.43	37
MASTER TeFIX®	9.7	PINK	No.º	D097 MF42S000C	61	8			7.9			0	8.1			35			0.8	40	34.43	37
TRUST	11	RED	-	D110 TT41 S000C	79	16			9.1	_		0.4	5.3			31			1	48	39.4	33
TRUST	11	YELLOW	ALL A	D110 TT42S000C	79	16			9.1			0.4	5.3			31			1	48	39.4	33

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WORK AT HEIGHTS AND RESCUE

NAME	ø (mm)	COLOR	PREVIEW	ID NUMBER	WEIGHT (g/m)	MIN. NO. OF FALLS	RELATIVE MASS OF SHEATH (%)	SHEATH SLIPPAGE (%)	ELONGATION 50-150 kg (%)	SHRINKAGE (%)	TENACITY (kN)	MIN. TENACITY WITH KNOTS (KN)	MATERIAL	TYPE	PAGE
eSTATIC	11	WHITE		L110 NE41S000C	84	20	43	0.3	2.6	-2	35	20	PES/PA	А	52
eSTATIC	11	YELLOW		L110 NE42S000C	84	20	43	0.3	2.6	-2	35	20	PES/PA	А	52
eSTATIC	11	ORANGE	14.14.14	L110 NE43S000C	84	20	43	0.3	2.6	-2	35	20	PES/PA	А	52
eSTATIC	11	PURPLE		L110 NE44S000C	84	20	43	0.3	2.6	-2	35	20	PES/PA	А	52
SECURE	10.5	RED	1.1	L105 TE41 S000C	72	16	38	0	4.6	1.2	28	17		А	52
SECURE	10.5	YELLOW/RED		L105 TE42 S000C	72	16	38	0	4.6	1.2	28	17		А	52
SECURE	11	YELLOW/BLUE	THE.	L110 TE43 S000C	82	20	33	0	3.4	0.8	32	17		А	52
SECURE	11	BLUE/YELLOW		L110 TE44 S000C	82	20	33	0	3.4	0.8	32	17		А	52
SECURE	11	BLACK	555555	L110 TE57 S000C	82	20	33	0	3.4	0.8	32	17		А	52
STATIC	9	WHITE		L090 TS41 S000C	51	9	49	0.4	5	-0.6	21	13	PA	в	53
STATIC	9	RED	and the second	L090 TS42 S000C	51	9	49	0.4	5	-0.6	21	13	PA	в	53
STATIC	9	BLUE	55555	L090 TS43 S000C	51	9	49	0.4	5	-0.6	21	13	PA	в	53
STATIC	10	WHITE		L100 TS41 S000C	69	20	38	0.1	4.1	2	31	17	PA	А	53
STATIC	10	RED	555.555	L100 TS42 S000C	69	20	38	0.1	4.1	2	31	17	PA	А	53
STATIC	10	BLUE	1,1953	L100 TS43 S000C	69	20	38	0.1	4.1	2	31	17	PA	А	53
STATIC	10.5	WHITE		L105 TS41 S000C	70	20	37	0	3.4	1.9	32	18	PA	А	53
STATIC	10.5	RED	<u>656 (</u>	L105 TS42 S000C	70	20	37	0	3.4	1.9	32	18	PA	А	53
STATIC	10.5	BLUE		L105 TS43 S000C	70	20	37	0	3.4	1.9	32	18	PA	А	53
STATIC	11	WHITE		L110 TS41 S000C	80	20	39	0.3	3.7	0.1	33	20	PA	А	53
STATIC	11	RED		L110 TS42 S000C	80	20	39	0.3	3.7	0.1	33	20	PA	А	53
STATIC	11	BLUE	127.11	L110 TS43 S000C	80	20	39	0.3	3.7	0.1	33	20	PA	А	53
STATIC	12	WHITE	.TT'	L120 TS41 S000C	90	20	34	0.5	3.2	1.8	41	25	PA	А	53
STATIC	12	RED	1000	L120 TS42 S000C	90	20	34	0.5	3.2	1.8	41	25	PA	А	53
STATIC	12	BLUE	1 22	L120 TS43 S000C	90	20	34	0.5	3.2	1.8	41	25	PA	А	53
STATIC	13	WHITE		L130 TS41 S000C	109	20	45	0	3.1	0.6	41	26	PA	А	53
STATIC A	9	WHITE	+2+	L090 TS41 A000C	61	5	41	0	3.3	1.9	24	15	PA	А	52
STATIC NFPA	10.5	WHITE	·	L105 NS41 S000C	74	20	34	0	3.6	0.3	32	17	PA	А	54
STATIC NFPA	11	WHITE	"Ht.	L110 NS41S000C	82	20	33	-0.1	3.5	4.5	40.5	15	PA	А	54
STATIC NFPA	12	WHITE	"t, "t,	L120 NS41S000C	87	20	35	4	3.2	1.8	42	25	PA	А	54

WORK AT HEIGHTS AND RESCUE

NAME	ø (mm/in)	COLOR	PREVIEW	ID NUMBER	WEIGHT (g/m)	MBS (kN)	MBS (lbs)	ELONGATION 10% MBS (%)	ELONG. 1.35 kN / 300 LBF (%)	ELONG. 2.70 kN / 600 LBF (%)	ELONG. 4.40 kN / 1000 LBF (%)	NFPA 2500	CLASSI- FICATION (USE)	PAGE
eSTATIC	11 / 0.433	WHITE		L110 NE41S000C	84	35	25	3	6	8.2	9	YES	TECHNICAL	52
eSTATIC	11 / 0.433	YELLOW		L110 NE42S000C	84	35	25	3	6	8.2	9	YES	TECHNICAL	52
eSTATIC	11 / 0.433	ORANGE		L110 NE43S000C	84	35	25	3	6	8.2	9	YES	TECHNICAL	52
eSTATIC	11 / 0.433	PURPLE		L110 NE44S000C	84	35	25	3	6	8.2	9	YES	TECHNICAL	52
STATIC NFPA	10.5 / 0.413	WHITE	····	L105 NS41 S000C	72	29	6519	7	4.1	6.4	9.5	YES	TECHNICAL	54
STATIC NFPA	11 / 0.433	WHITE	*##	L110 NS41 S000C	82	40.5	9105	8.4	3.6	6.2	9.5	YES	GENERAL	54
STATIC NFPA	12 / 0.472	WHITE	******	L120 NS41S000C	87	42	9442	7.4	2.3	4.7	7.8	YES	GENERAL	54
STATIC NFPA	16 / 0.629	BLACK	Sec. Sec.	L160 NS41S000C	160	56	12589	9.4	1.2	3.0	5.8	YES	GENERAL	54

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SPELEO AND CANYONING

NAME	ø (mm)	COLOR	PREVIEW	ID NUMBER	WEIGHT (g/m)	MIN. NO. OF FALLS	RELATIVE MASS OF SHEATH (%)	SHEATH SLIPPAGE (%)	ELONGATION (50-150 kg)	SHRINKAGE (%)	TENACITY (kN)	MIN. TENACITY W/ KNOTS (KN)	MATERIAL	TYPE	FLOAT- ING	PAGE
CANYON DRY	9	BR. RED		C090 TD41 C000C	59	16	44	0.2	3.6	1	30	18.4	PA	А	NO	42
CANYON GRANDE*	10	YELLOW		C100 TC41 S000C	61	5	47	-0.2	3.2	1.7	18	12	PA/PPV	А	YES	42
CANYON WET	10	ORANGE		C100 TW48 W000C	66	20	38	-0.3	2.5	0.8	30	18	PA	А	NO	42
SALAMANDER**	10.2	YELLOW/RED	nun ann	C102 TS41 S000C	60	20	41.7	0	2.5	0	23	13	PA/PPV	А	YES	43
SPELE0	9	WHITE	S	S090 TS41 S000C	48	8	42	-0.3	4.1	1	19	12	PA	В	NO	43
SPELE0	10	WHITE		S100 TS41 S000C	63	16	40	0	3.7	1.8	27	16	PA	А	NO	43
SPELE0	10.5	WHITE		S105 TS41 S000C	72	20	46	0.1	3	1.4	28	18	PA	А	NO	43
SPELE0	11	WHITE		S110 TS41 S000C	77	20	42	-0.4	3.3	0.3	33	17	PA	А	NO	43
SPELEO SPECIAL	10.5	WHITE	F 12	S105 TG41 S000C	76	12	50	0.5	2.7	1	34	18	PES/PA	А	YES	43

* Tested according to EN 1891 type B except min. tenacity and material; Min. number of falls tested with weight 55 kg, fall factor 1
** Tested according to EN 1891 type B except material and number of falls; Min. number of falls tested with weight 55 kg, fall factor 1

ACCESSORIES

ACCESSORY AND POWER CORDS

NAME	ø (mm)	COLOR	PREVIEW	ID NUMBER	WEIGHT (g/m)	MIN. STRENGTH (daN)	PAGE
ACCESSORY CORD	4	RED	******	A040TR42S100R	12.7	340	62
ACCESSORY CORD	5	YELLOW	N. N. N. N. N.	A050TR41S000R	18.9	510	62
ACCESSORY CORD	5	BLUE	N. N. 8. 8	A050TR42S000R	18.9	510	62
ACCESSORY CORD	6	GREEN	*******	A060TR41S000R	25	1000	62
ACCESSORY CORD	6	RED		A060TR42S000R	25	1000	62
ACCESSORY CORD	7	RED	a a a	A070TR41S000R	34	1300	62
ACCESSORY CORD	7	YELLOW	Car Sa Sa	A070TR42S000R	34	1300	62
ACCESSORY CORD	8	RED		A080TR4S000R	43	1460	62
ACCESSORY CORD	8	ORANGE		A080TR41S100R	43	1460	62
ACCESSORY CORD REEP ARAMID	6	BLACK		A060TA41S100R	22.9	1650	62
ACCESSORY CORD REEP REFLECTIVE	6	BLACK		A060TR44S100R	23.2	1000	62
ACCESSORY CORD REEP TOUCH	6	WHITE/RED	*****	A060TT41S000R	23.2	1000	62
POWER CORD	2	BLUE		A020TH41S100R	2.8	120	62
POWER CORD	2	YELLOW	100000000	A020TH42S1003	2.8	120	62
POWER CORD	3	BLUE	-	A030TH41S00R	6.5	190	62
POWER CORD	3	BLACK	a	A030TH42S00R	6.5	190	62
POWER CORD	9	RED	1 · · · ·	A090TR41S100R	54.4	1900	62

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