

EN 2020



# SALES GUIDE

tyed to be free  
**LONDON**



SPORT CLIMBING / TRAD


MASTER 8.6

EXPERT

WATER REPELLENT

UIAA

Rope diameter • [mm]	8.6
Weight • [g/m]	50
Number of UIAA falls	5
Max. impact force • [kN]	9.1
Sheath slippage • [%]	0.3
Static elongation • [%]	4.3
Dynamic elongation • [%]	30
Knotability	0.9



The thinnest single rope we offer. The low weight, which is only 50 g, makes it an ideal weapon, which will help you to send your hardest projects.


MASTER 8.9

EXPERT

WATER REPELLENT

UIAA

Rope diameter • [mm]	8.9	8.9	8.9
Weight • [g/m]	52	52	52
Number of UIAA falls	5	15	28
Max. impact force • [kN]	8.7	6.4	10.3
Sheath slippage • [%]	0	0	0
Static elongation • [%]	6.9	6.9	6.9
Dynamic elongation • [%]	34	30	27
Knotability	0.8	0.8	0.8



Another aggressive rope with impregnation for hard climbing projects. Certified for use as a single, twin and half rope.

MASTER 9.0 TEFIX®

EXPERT

WATER REPELLENT

UIAA

Rope diameter • [mm]	9.0	9.0	9.0
Weight • [g/m]	55	55	55
Number of UIAA falls	6	17	20
Max. impact force • [kN]	8.9	61	103
Sheath slippage • [%]	0	0	0
Static elongation • [%]	98	98	98
Dynamic elongation • [%]	31	29	24
Knotability	0.9	0.9	0.9



If you want to have a lightweight rope for sport climbing and if you would like to use it occasionally in the mountains also, Master 9.0 is a good choice. In addition, this rope makes use of the TeFIX® technology which increases resistance and prolongs the lifespan of the rope thanks to the connection of the core and the sheath.

MASTER PRO 9.2

EXPERT

SBS

WATER REPELLENT

UIAA

Rope diameter • [mm]	9.2
Weight • [g/m]	58
Number of UIAA falls	9
Max. impact force • [kN]	9.1
Sheath slippage • [%]	0.3
Static elongation • [%]	6.1
Dynamic elongation • [%]	31
Knotability	1



This rope defeats the stigma that thin ropes aren't durable. You don't need to carry one rope for practicing and another one for redpoint. Innovated, extremely fine SBS sheath significantly prolongs its lifespan. The rope is at the same time soft enough and easy to work with.

NEW! MASTER PRO 9.7

EXPERT

SBS

WATER REPELLENT

UIAA

Rope diameter • [mm]	9.7
Weight • [g/m]	65
Number of UIAA falls	9
Max. impact force • [kN]	8.4
Sheath slippage • [%]	-0.4
Static elongation • [%]	9.8
Dynamic elongation • [%]	30
Knotability	0.9



Master PRO 9.7 is unique thanks to its construction of the braid SBS, which guarantees good resistance and lifespan of the rope. It is perfect choice for those who prefer durability and long lifespan instead of weight. This group also includes high performance climbers during their projects practising.

INDOOR CLIMBING


AMBITION 10.2 TEFIX

ADVANCED

WATER REPELLENT

UIAA

Rope diameter • [mm]	10.2
Weight • [g/m]	67
Number of UIAA falls	11
Max. impact force • [kN]	8.3
Sheath slippage • [%]	0
Static elongation • [%]	6.9
Dynamic elongation • [%]	33
Knotability	0.8



An new version of a robust rope AMBITION 10.2 enriched with TeFIX® technology. The fact that the core is connected with the sheath prevents the sheath from shifting and provides maximum possible safety in case of the sheath damage. An ideal rope which will guide you through many vertical miles.

HATRICK 10.2


BEGINNER

SBS

WATER REPELLENT

UIAA

Rope diameter • [mm]	10.2
Weight • [g/m]	66
Number of UIAA falls	5
Max. impact force • [kN]	8.2
Sheath slippage • [%]	0
Static elongation • [%]	5.4
Dynamic elongation • [%]	33
Knotability	0.9




A rope with SECURE technology that offers less UIAA falls but has much larger sheath that ensures durability and a long lifespan of the rope. Perfect choice for rentals and permanent use in the climbing gyms (top-ropeing).

INDOOR 10.2

BEGINNER

Rope diameter • [mm]	10.2
Weight • [g/m]	68
Number of UIAA falls	7
Max. impact force • [kN]	8.8
Sheath slippage • [%]	0
Static elongation • [%]	7.2
Dynamic elongation • [%]	32
Knotability	0.9




A rope with braided core developed especially for top-rope climbing at gyms. Suitable for climbing schools and rentals.

INDOOR 10.4

BEGINNER

Rope diameter • [mm]	10.4
Weight • [g/m]	72
Number of UIAA falls	8
Max. impact force • [kN]	8
Sheath slippage • [%]	0.1
Static elongation • [%]	6.5
Dynamic elongation • [%]	35



A rope has a braided core, developed especially for top-rope climbing at gyms. Suitable for climbing schools and rentals.

AMBITION 10


BEGINNER

SBS

WATER REPELLENT

UIAA

Rope diameter • [mm]	10
Weight • [g/m]	67
Number of UIAA falls	9
Max. impact force • [kN]	7.8
Sheath slippage • [%]	0.1
Static elongation • [%]	5.7
Dynamic elongation • [%]	33
Knotability	1



AMBITION 10.0 is designed especially for beginners. Wider diameter combined with SBS sheath offers an impressive performance and long lifespan.

MOUNTAINEERING AND ALPINISM

MASTER 7.0

EXPERT

WATER REPELLENT

UIAA

Rope diameter • [mm]	7
Weight • [g/m]	34
Number of UIAA falls	14
Max. impact force • [kN]	8.9
Sheath slippage • [%]	0
Static elongation • [%]	3.6
Dynamic elongation • [%]	33
Knotability	0.9



The lightest twin rope in the world. Only 34 grams per meter and still perfectly safe. Ideal for extreme climbing projects or as an ultra-light rope for ski-tourists. You won't even notice this rope in your bag due to its weight and size. Certified for use as a twin rope exclusively.


MASTER 7.8 TEFIX®

EXPERT

WATER REPELLENT

UIAA

Rope diameter • [mm]	7.8	7.8
Weight • [g/m]	39	39
Number of UIAA falls	6	16
Max. impact force • [kN]	5.4	8.3
Sheath slippage • [%]	0	0
Static elongation • [%]	11.3	7.1
Dynamic elongation • [%]	36	32
Knotability	0.9	0.9



The TeFIX® technology is also in our lightest ropes for climbing in the mountains. Where else is there a need for good resistance and lifespan of the ropes than in the mountains? Master 7.8 TeFIX®, besides low weight, profits also from better resistances.


ALPINE 7.9

EXPERT

WATER REPELLENT

UIAA

Rope diameter • [mm]	7.9	7.9
Weight • [g/m]	39	39
Number of UIAA falls	6	16
Max. impact force • [kN]	5.4	8.3
Sheath slippage • [%]	0	0
Static elongation • [%]	6.7	7
Dynamic elongation • [%]	37	33
Knotability	0.8	0.8



An ideal choice for various activities in the mountains. Mountain guides, ski-tourists as well as mountaineers will love its low weight of 39 g. We offer this rope even in short variants of 20 and 30 m.


MASTER 8.6

EXPERT

WATER REPELLENT

UIAA

Rope diameter • [mm]	8.6
Weight • [g/m]	50
Number of UIAA falls	5
Max. impact force • [kN]	9.1
Sheath slippage • [%]	0.3
Static elongation • [%]	4.3
Dynamic elongation • [%]	30
Knotability	0.9



The thinnest single rope we offer. The low weight, which is only 50 g, makes it an ideal weapon, which will help you to send your hardest projects.


MASTER 7.8

ADVANCED

WATER REPELLENT

UIAA

Rope diameter • [mm]	7.8	7.8
Weight • [g/m]	38	38
Number of UIAA falls	6	16
Max. impact force • [kN]	4.8	7.9
Sheath slippage • [%]	0	0
Static elongation • [%]	6.5	6.1
Dynamic elongation • [%]	39	33
Knotability	0.9	0.9



A light weight quality rope, for those who feel at home in the mountains. The Complete Shield technology protects the rope from water and dirt. You can choose from four distinct colour patterns.

BW BIGWALL

MASTER 9.7 TEFIX®


EXPERT

SBS

WATER REPELLENT

UIAA

Rope diameter • [mm]	9.7
Weight • [g/m]	61
Number of UIAA falls	8
Max. impact force • [kN]	8.2
Sheath slippage • [%]	0
Static elongation • [%]	8
Dynamic elongation • [%]	35
Knotability	0.8



For big walls you need a rope, which you can rely on. Even when you damage a sheath in one part, you don't have to be afraid. TeFIX® technology connects the sheath with a core so that you can pass the damaged part and reach safety. That's not what an ordinary rope would offer you.

HATRICK 9.7


ADVANCED

SBS

WATER REPELLENT

UIAA

Rope diameter • [mm]	9.7
Weight • [g/m]	61
Number of UIAA falls	5
Max. impact force • [kN]	78
Sheath slippage • [%]	0
Static elongation • [%]	9.0
Dynamic elongation • [%]	30
Knotability	1



If you prefer small diameters but you don't want to underestimate the safety, there is no better option than Hatrick 9.7 or Master TeFIX® 9.7. SBS construction of the sheath together with a SECURE technology make this rope safe, long-lasting and prevents the sheath from shifting.


LOWE 9.7

ADVANCED

WATER REPELLENT

UIAA

Rope diameter • [mm]	9.7
Weight • [g/m]	55
Number of UIAA falls	6
Max. impact force • [kN]	8.6
Sheath slippage • [%]	-0.15
Static elongation • [%]	7.4
Dynamic elongation • [%]	32
Knotability	1



Our unique technology lowers the weight of the rope keeping the ideal diameter. An excellent choice for all sport climbing areas.


AMBITION 10.2 TEFIX®

ADVANCED

WATER REPELLENT

UIAA

Rope diameter • [mm]	10.2
Weight • [g/m]	67
Number of UIAA falls	11
Max. impact force • [kN]	8.3
Sheath slippage • [%]	0
Static elongation • [%]	6.9
Dynamic elongation • [%]	33
Knotability	0.8



The most robust and safest rope for big walls from our catalogue. TeFIX® technology holds the core and the sheath firmly together so that in case of emergency you can use the rope even when the sheath is ripped.

HATRICK 10.2


ADVANCED

SBS

WATER REPELLENT

UIAA

Rope diameter • [mm]	10.2
Weight • [g/m]	66
Number of UIAA falls	5
Max. impact force • [kN]	8.2
Sheath slippage • [%]	0
Static elongation • [%]	5.4
Dynamic elongation • [%]	33
Knotability	0.9



The massive sheath of this rope ensures safety and a long lifespan. As other ropes for big wall climbing, this one offers SECURE technology for your security.



## MASTER 9.7 TEFIX®

EXPERT



Rope diameter • [mm]	<b>9.7</b>
Weight • [g/m]	61
Number of UIAA falls	8
Max. impact force • [kN]	8.2
Sheath slippage • [%]	0
Static elongation • [%]	8
Dynamic elongation • [%]	35
Knotability	0.8



Technologies keep advancing. Favorite MASTER 9.7 with TeFIX® technology became even more safer and durable than its older brother. Permanent connection of a core and sheath ensures that the sheath cannot slip. Check the fresh design!

## MASTER 9.4

ADVANCED



Rope diameter • [mm]	<b>9.4</b>
Weight • [g/m]	58
Number of UIAA falls	6
Max. impact force • [kN]	7.1
Sheath slippage • [%]	0
Static elongation • [%]	6.2
Dynamic elongation • [%]	37
Knotability	0.9



MASTER 9.4 with a small diameter but durable SBS sheath construction. Ideal for average climbers who want to keep pushing their limits.

## MASTER 9.7

ADVANCED



Rope diameter • [mm]	<b>9.7</b>
Weight • [g/m]	61
Number of UIAA falls	7
Max. impact force • [kN]	7
Sheath slippage • [%]	0.1
Static elongation • [%]	6.3
Dynamic elongation • [%]	40
Knotability	0.9



One of the most favorite ropes among our customers. MASTER 9.7 is time-proven – it offers an ideal diameter, SBS sheath and a long lifespan. One of the best ropes for rock climbing you can get. Offers an excellent value for money.

## LOWE 9.7

ADVANCED



Rope diameter • [mm]	<b>9.7</b>
Weight • [g/m]	55
Number of UIAA falls	6
Max. impact force • [kN]	8.6
Sheath slippage • [%]	-0.15
Static elongation • [%]	7.4
Dynamic elongation • [%]	32
Knotability	1



Our unique technology lowers the weight of the rope keeping the ideal diameter. An excellent choice for all sport climbing areas.

## AMBITION 9.8

BEGINNER



Rope diameter • [mm]	<b>9.8</b>
Weight • [g/m]	64
Number of UIAA falls	9
Max. impact force • [kN]	<b>7.4</b>
Sheath slippage • [%]	<b>0.005</b>
Static elongation • [%]	<b>7.9</b>
Dynamic elongation • [%]	<b>35</b>
Knotability	<b>0.9</b>



As its name suggests, this rope is both for beginners and ambitious climbers who pursue climbing outside and indoors. It offers outstanding value for money. It has a universal diameter.

## AMBITION 10

BEGINNER



Rope diameter • [mm]	<b>10</b>
Weight • [g/m]	67
Number of UIAA falls	9
Max. impact force • [kN]	7.8
Sheath slippage • [%]	0.1
Static elongation • [%]	5.7
Dynamic elongation • [%]	33
Knotability	1



AMBITION 10.0 is designed especially for beginners. Wider diameter combined with SBS sheath offers an impressive performance and long lifespan.

## AMBITION 10.5

BEGINNER



Rope diameter • [mm]	<b>10.5</b>
Weight • [g/m]	69
Number of UIAA falls	9
Max. impact force • [kN]	<b>9.1</b>
Sheath slippage • [%]	0
Static elongation • [%]	6
Dynamic elongation • [%]	34
Knotability	0.8



Thicker ropes are ideal for beginners because they make falls easier to catch using a belay device and thus they make climbing safer. You can use this rope at crags as well.

## TRUST 11.0

BEGINNER



Rope diameter • [mm]	<b>11</b>
Weight • [g/m]	79
Number of UIAA falls	16
Max. impact force • [kN]	8.2
Sheath slippage • [%]	0.1
Static elongation • [%]	6.1
Dynamic elongation • [%]	36
Knotability	0.9



Massive, safe rope with extremely long lifespan. Designed for heavy usage in rope training centers and climbing schools.

## TRUST 11.4

BEGINNER



Rope diameter • [mm]	<b>11.4</b>
Weight • [g/m]	84
Number of UIAA falls	20
Max. impact force • [kN]	8.4
Sheath slippage • [%]	0.1
Static elongation • [%]	5.5
Dynamic elongation • [%]	34
Knotability	1



Large diameter safe rope, with extremely long lifespan. Designed for heavy usage in rope training centers and climbing schools.

## LOWE 8.4

ADVANCED



Rope diameter • [mm]	<b>8.4</b>	<b>8.4</b>
Weight • [g/m]	41	41
Number of UIAA falls	5	12
Max. impact force • [kN]	<b>5.1</b>	<b>9.2</b>
Sheath slippage • [%]	0	0
Static elongation • [%]	5.4	5.3
Dynamic elongation • [%]	31	27
Knotability	0.8	0.8



If you don't want extremely thin rope but you still aim for the lowest weight possible? There is no better option than this one. Our LOWE technology lowers the weight of the rope keeping an ideal diameter 8.4. You can save 0.5 kg with sixty-meter long double ropes. That's a deal, isn't it?

## MASTER 8.5

BEGINNER



Rope diameter • [mm]	<b>8.5</b>	<b>8.5</b>
Weight • [g/m]	46	46
Number of UIAA falls	10	14
Max. impact force • [kN]	5.1	7.9
Sheath slippage • [%]	0.1	0.1
Static elongation • [%]	7	7
Dynamic elongation • [%]	38	36
Knotability	0.8	0.8



You will choose this rope if you seek the best ratio of lifespan and a diameter. Perfect as your first rope for mountaineering. Complete Shield coating is a matter-of-course.

## AMBITION 8.5

BEGINNER



Rope diameter • [mm]	<b>8.5</b>
Weight • [g/m]	45
Number of UIAA falls	7
Max. impact force • [kN]	5
Sheath slippage • [%]	0.1
Static elongation • [%]	7
Dynamic elongation • [%]	38
Knotability	1



A lightweight half rope with great versatility and very high durability. All its technical specifications are designed to increase safety and broaden the range of suitable usage.



### EXPERT

Climbing is your lifestyle and you always go for the best equipment available. You need aggressive ropes that never fail and support your impressive performance.



### ADVANCED

It seems that you are serious about climbing and that you care about the gear you use. The fact that you've already sent quite difficult routes only confirms it. Go for the ropes labeled as Advanced.



### BEGINNER

Ropes ideal for your first moves on rock or occasional climbing. Thicker diameters and long lifespan.

## TECHNOLOGIES

TENDON is one of the leading companies in new technologies.

Here is short review.



**TEFIX®** core and sheath are permanently fixed – safety, better rope parameters and life span.



**LOWE** keep diameter and reduce weight.



**SECURE** sandwich-type construction, zero sheath slippage, higher safety.



**COMPLETE SHIELD** dust and waterproof rope, UIAA 100 requirements.



**SBS** simple braiding system – smoother and better abrasion resistance.



## SPELEO AND CANYONING

### CANYON WET, CANYON GRANDE

Diameter • [mm]	<b>C. GRANDE** 10</b>	<b>C. WET 10</b>
Weight • [g/m]	<b>61</b>	<b>67</b>
Number of falls (min.)	<b>20*</b>	<b>20</b>
Relative mass of sheath • [%]	49	<b>38</b>
Sheath slippage • [mm]	2.6	-0.3
Elongation (50 – 150 kg) • [%]	3.2	<b>2.5</b>
Shrinkage • [%]	1.7	<b>0.5</b>
Tenacity • [kN]	18	30
Min. tenacity with knots • [kN]	12	18
Used material	PA/PPV	PA
Type	-	A
Floating	Yes	No

\* weight 55 kg, fall factor 1  
\*\* tested according to EN 1891 type B except min. tenacity and material.

**Canyon WET** Rope variation which doesn't float on water due to materials used (PA) meets requirement of EN 1891 type A.

### CANYON DRY 9.0

<b>9</b>
59
16
44
0.20 %
3.6
1
28
18
PA
A
No

### SALAMANDER 10.2

<b>10.2**</b>
60
20*
47
0
2.6
0
23
12
PA/PPV
-
Yes

\* weight 55 kg, fall factor 1  
\*\* tested according to EN 1891 type B except material and number of falls

### SPELEO 9 – 11

<b>9</b>	<b>10</b>	<b>10.5</b>	<b>10.5 SPECIAL</b>	<b>11</b>
48	63	72	76	77
12	15	20	12	20
44	40	46	51	42
1	0	0.1	0.5	2
4.1	3.7	3	2.7	3.3
2.2	1	14	1	1.8
23	27	28	34	34
12	16	18	18	19
PA	PA	PA	PES/PA	PA
B	A	A	A	A
-	-	-	-	-

**SALAMANDER** The best choice among the canyoning ropes. Light, floating rope with our SECURE technology keeps its outstanding qualities for a long time. Its construction and applied materials help to minimize shrinking of the rope in wet conditions. It has stronger, coarser sheath and thanks to the production technology, this rope is minimally dynamic.

**SPELEO** Low stretch, high static strength, and exceptional resistance to abrasion are the qualities most valued among cavers. Polyester sheath is built to endure higher thermal stress during abseiling.

**CANYON DRY** New polyamide rope with a smaller diameter of 9 mm it has a teflon finish in comparison with the other types, which increases its water and abrasion resistance considerably. The highly visible colour guarantees that the user has under control any situation where bad conditions prevail. The rope is flexible and retains its softness even after a long period of use. CANYON DRY 9.0 will be appreciated especially by experienced canyoneers who strive for a quick and smooth advancement above all and who care about every gram of weight.

**CANYON GRANDE** This rope is easily knotted and soft even after repeated immersion into the water. Its bright colours contrast well with the colour of the water, it is highly resistant to abrasion and offers increased water-resistance. Thanks to the materials used, the rope has lower absorbability and floats on the surface.



ARBORIST

LOWERING ROPE 15

Diameter • [mm]	15
Weight • [g/m]	172
Number of falls (min.)	-
Relative mass of sheath • [%]	-
Sheath slippage • [mm]	-
Elongation (50 – 150 kg) • [%]	-
Shrinkage • [%]	-
Tenacity • [kN]	61
Min. tenacity with knots • [kN]	-
Used material	PES
Type	-



Lowering rope 15 mm of a new construction with increased strength and reduced diameter. Very good handling during lowering and braking of loads.

TIMBER EVO 11.0

11
88
20
57
0
3.1
0.7
30
18
PES/PA
A



The Timber Evo 11.5 rope enjoys great popularity, so we decided to offer additional diameters in this product line. Timber Evo 11.0 is a rope with good handling and fast run.

SPliced LOOP AVAILABLE - ON REQUEST.

TIMBER EVO 11.5

11.5
90
20
54
10
3
1
30
18
PES/PA
A



The improved version of the Timber EVO 11.5 working rope is characterized by a better abrasion resistance and consequently a longer service life thanks to the new construction of the sheath.

SPliced LOOP AVAILABLE - ON REQUEST.

TIMBER EVO 12.5

12.5
104
20
48
0
3
0.6
39
22
PES/PA
A



The combination of polyamide and polyester lends, among other features, an excellent abrasion resistance and also a high strength in the ropes of the Timber Evo series. The diameter of 12.5 mm guarantees good control during handling.

SPliced LOOP AVAILABLE - ON REQUEST.



WORKS AT HEIGHT AND RESCUE

STATIC 9.0 – 13.0 TYPE A

Diameter • [mm]	9	10	10.5	11	12	13
Weight • [g/m]	50	69	72	80	92	109
Number of falls (min.)	20	20	20	20	20	20
Relative mass of sheath • [%]	49	38	35	39	35	46
Sheath slippage • [mm]	0.4	0.1	0	0.3	4	0
Elongation (50 – 150 kg) • [%]	5	4.1	3.4	3.7	3.2	3
Shrinkage • [%]	0.6	2	1.9	1.9	1.8	1.1
Tenacity • [kN]	23	31	32	33	42	42
Min. tenacity with knots • [kN]	13	17	18	20	25	27
Used material	PA	PA	PA	PA	PA	PA
Type	B	A	A	A	A	A



SEWN TERMINATION IS AVAILABLE ON REQUEST.

A rope for any application where the sheath and the core may suffer damage. When using this rope you will significantly increase your safety margins, in cases where mechanical damage to the rope due to sharp edges or falling objects. Thanks to the unique sandwich-type construction of braided layers and the use of specially developed staple fibers, the rope is able to hold the suspended person or load even in the event of considerable sheath or core damage. Even if the rope is heavily damaged, the suspended person has enough time to abseil to the ground or to a safe anchor point.

PROTECTED BY UTILITY MODEL. / SEWN TERMINATION IS AVAILABLE ON REQUEST.

SECURE 10.5 / SECURE 11

10.5
75
17
48.5
0
4.6
1.2
18
28
4.5
A



STATIC 9 TYPE A

9
61
8
41
0
2.8
1.9
28
15
PA
A



Thanks to the unique construction and the state-of-the-art technological finishing, the static rope offers a strength higher than 22 kN with a falling mass of 100 kg (in comparison with the standard falling mass of 80 kg for type B ropes). The strength of the rope with knots exceeds 15 kN for a period of 3 minutes without any damage to the core and the sheath (type B ropes are tested for 12 kN for a period of 3 minutes). This is an advantage which workers working at heights and rescue teams are eager for, because having a stronger rope in critical situations with full outfit and gear brings them to a higher standard.

STATIC 10.5 – 12.0 (NFPA)

EN 1891	10.5	11	12
10.5	74	83	87
11	20	20	20
12	34	33	35
13	0	0	4
14	3.6	3.5	3.2
15	0.3	4.5	1.8
16	32	42	42
17	17	15	25
18	PA	PA	PA
19	A	A	A

NFPA	10.5	11	12
Diameter • [mm]	0.413	0.433	0.472
Diameter • [in]	32	40.5	42
MBS* • [kN]	7 194	9 105	9 442
MBS* • [lbs]	74	83	87
Weight • [g]	8.6	8.4	7.4
Elongation at 10% MBS • [%]	2.8	3.6	2.3
Elongation at 1.35 kN (300 lbf) • [%]	7.1	6.2	4.7
Elongation at 2.70 kN (600 lbf) • [%]	10.7	9.5	7.8
Elongation at 4.40 kN (1000 lbf) • [%]	Yes	Yes	Yes
NFPA 1983 2012 edition	Technical use	General use	
Classified			



The excellent ropes with low elongation and high static strength are intended primarily for work at height and for securing people above vertical drops. Recommended use are rescue operations, work positioning and military and police use. Occasional use for NFPA certificated ropes meet the life safety rope requirements of NFPA 1983 Standard on fire service life safety rope and equipment for emergency services, 2017 edition.

MILITARY

MILITARY 9.0 – 12.0

Diameter • [mm]	9	10	10.5	11	12
Weight • [g/m]	50	69	72	80	92
Number of falls (min.)	20	20	20	20	20
Relative mass of sheath • [%]	49	39	36	40	35
Sheath slippage • [mm]	2	4	3	5	4
Elongation (50 – 150 kg) • [%]	3.8	3.4	3.4	3.3	3.2
Shrinkage • [%]	2.1	2	1.9	1.9	1.8
Tenacity • [kN]	23	31	32	33	42
Min. tenacity with knots • [kN]	13	17	18	20	25
Used material	PA	PA	PA	PA	PA
Type	B	A	A	A	A



Excellent ropes with low elongation and high static strength are designed for army and police.

SEWN TERMINATION IS AVAILABLE ON REQUEST.

ARAMID 10.0 – 11.0

10*	11
65	80
10	18
50	47
0.1	1
3.3	3
1.9	0.9
33	45
15	15
Aramid/PA	Aramid/PA
A	A



\* Tested according to en 1891 except impact force.

A unique rope with aramid sheath and polyamide core, which features high firmness and increased resistance to cutting and abrasion. The rope is resistant to naked flame and radiant heat of up to 400 °C for short periods of time! This characteristic will be appreciated in particular by special police and army emergency squads for quick descent from a helicopter, when ordinary ropes are not able to tackle the heat energy.

FORCE10.0 – 11.0

10*	11**
68	84
5	5
36	41
0	0.5
3.5	3.6
2.3	3
24	26
13	15
PA/Steel	PA/Steel
B	A



\* Tested according to EN 1891 type b excepted material, marking and falls.  
\*\* Tested according to EN 1891 type a excepted material, marking and falls.

A special rope which makes use of a technology of combination of materials and the rope construction itself. There is internal sheath made of stainless steel wires in the rope. The product for use in extremely severe conditions (for instance rescuers, firemen, policemen and other special forces) due to its increased resistance to cutting.

REFLECTIVE 11.0

11
80
20
40
5
3.3
1.9
33
20
PA
A



The newly developed rope with reflection control weaving reflects a beam of direct light, making it easier to identify the rope in the dark and in poor lighting conditions. The rope is particularly useful for rescue work, speleology, diving and as a tracing rope for mines.

SEWN TERMINATION IS AVAILABLE ON REQUEST.

FAST ROPE

Rope for rapid deployment from helicopters Fast rope and version for transportation and evacuation F.R.I.E.S.

