Model	Standard	Certification	Type	Breaking load	Strength with Figure-of-8 knot	Strength with Figure-of-9 knot	Strength with sewn terminations	Number of fall factor 1	Impact force factor 0.3	Extension 50/150 kg	Sheath slippage	Weight per metre	% of the sheath	Mass of the core	Shrinkage in water	Material
ROPES FOR DIFFICULT AREA ACCESS																
ACCESS 10,5 mm UNICORE	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	2100 daN(kg)	2400 daN(kg)	16	5,1 kN	3 %	0 %	65 g	38 %	62 %	2,5 %	Polyamide
ACCESS 11 mm UNICORE	EN 1891	CE	A	3200 daN(kg)	2100 daN(kg)	2200 daN(kg)	2400 daN(kg)	20	5,1 kN	2,8 %	0 %	73 g	36 %	64 %	2 %	Polyamide
ANTIPODES 10,5 mm	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	2100 daN(kg)	2400 daN(kg)	16	5,1 kN	3 %	0,8 %	65 g	38 %	62 %	5 %	Polyamide
ANTIPODES 11,5 mm	EN 1891	CE	A	3400 daN(kg)	2300 daN(kg)	2400 daN(kg)	2600 daN(kg)	>20	5,3 kN	2,6 %	0,5 %	78 g	38 %	62 %	5 %	Polyamide
INDUSTRIE 10,5 mm	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	2100 daN(kg)	2400 daN(kg)	16	5,1 kN	3 %	0,8 %	65 g	38 %	62 %	5 %	Polyamide
INDUSTRIE 11 mm	EN 1891	CE	A	3200 daN(kg)	2100 daN(kg)	2200 daN(kg)	2400 daN(kg)	20	5,1 kN	2,8 %	0,8 %	73 g	36 %	64 %	4 %	Polyamide
INDUSTRIE 12 mm	EN 1891	CE	A	4200 daN(kg)	2400 daN(kg)	-	3000 daN(kg)	20	5,2 kN	2,5 %	0,3 %	94 g	34 %	66 %	2,4 %	Polyamide
CONTRACT 10,5 mm	EN 1891	CE	A	2500 daN(kg)	1750 daN(kg)	2000 daN(kg)	2200 daN(kg)	12	5 kN	2,9 %	0 %	66 g	39 %	61 %	3,3 %	Polyamide
TOP WORK 10,5 mm	EN 1891	CE	A	2600 daN(kg)	1800 daN(kg)	2000 daN(kg)	2200 daN(kg)	15	4,6 kN	4,8 %	0,3 %	64 g	44 %	56 %	3,5 %	
NORTH SEA 11 mm	EN 1891	CE	A	2800 daN(kg)	1900 daN(kg)	2000 daN(kg)	2200 daN(kg)	> 20	5,1 kN	4 %	0,9 %	75g	44 %	56 %	3 %	
DYNAMIC ROPES																
TOP GUN II 10,5 mm UNICORE	EN 892	CE	①	2100 daN(kg)	-	-	1700 daN(kg)	Factor 2 11	-	-	-	68 g	40 %	60 %	-	Polyamide
APOLLO 11 mm	EN 892	CE	①	2300 daN(kg)	-	-	-	Factor 2 16	-	-	-	75 g	35 %	65 %	-	Polyamide
UNIVERSAL ROPE TO BOTH STANDARDS																
DYNASTAT 10,5 mm	EN 892 EN 1891	CE	A ①	2500 daN(kg)	1650 daN(kg)	1700 daN(kg)	1900 daN(kg)	24 Factor 2 10	4,3 kN	2 %	0,8 %	75 g	44 %	56 %	0 %	Sheath: Polyamide Core: Polyamide/ Vectran
FLOATING ROPE																
PRO WATER 11 mm UNICORE	EN 1891	CE	A	2500 daN(kg)	1600 daN(kg)	-	-	5	5 kN	3,6 %	0 %	80 g	33 %	67 %	0 %	Polyamide / Neopren
RESCUE ROPES																
RESCUE 10,5 mm	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	-	2400 daN(kg)	16	5,1 kN	3 %	0,8 %	65 g	38 %	62 %	5 %	Sheath: Polyester Core: Polyamide
RESCUE VLS 11,3 mm	NFPA	CE	A	3600 daN(kg)			-			0,8 %		94 g	43 %	57 %		Polyester
RESCUE REACTIVE 10,5 mm	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	-	2800 daN(kg)	16	5,1 kN	2,6 %	0 %	67 g	37 %	63 %	1,8 %	Polyamide
PRO WATER 11 mm UNICORE	EN 1891	CE	A	2500 daN(kg)	1600 daN(kg)	-	-	5	5 kN	3,6 %	0 %	80 g	33 %	67 %	0 %	Polyamide / Neopren
ROPES RESISTANT TO HIGH TEMPERATURES																
RAIDER 10,5 mm	EN 1891	CE	B	2300 daN(kg)	1800 daN(kg)	-	2200 daN(kg)	6	4,6 kN	3,2 %	0 %	69 g	32 %	68 %	0,5 %	Sheath: Aramid Core: Polyamide
RAIDER 11 mm	EN 1891	CE	B	2600 daN(kg)	1900 daN(kg)	-	2200 daN(kg)	8	4,7 kN	3,3 %	0,6 %	81 g	41 %	59 %	0,5 %	Sheath: Aramid Core: Polyamide
RAIDER TACTIC 11 mm	EN 1891	CE	A	2400 daN(kg)	1800 daN(kg)	-	2200 daN(kg)	6	5,9 kN	3,2 %	0 %	75 g	30 %	70 %	0,5 %	Sheath: Aramid Core: Polyamide
ROPES RESISTANT TO CHEMICAL PRODUCTS																
HOTLINE 11 mm	EN 1891	CE	A	2500 daN(kg)	1900 daN(kg)	-	2200 daN(kg)	15	5,6 kN	3,1 %	0 %	79 g	42 %	58 %	3,3 %	Sheath: Polyamide Core: Polyamide/Aramid
RAIDER 11 mm	EN 1891	CE	B	2600 daN(kg)	1900 daN(kg)	-	2200 daN(kg)	8	4,7 kN	3,3 %	0,6 %	81 g	41 %	59 %	0,5 %	Sheath: Aramid Core: Polyamide
LIGHTWEIGHT ROPES																
ANTIPODES 9 mm	EN 1891	CE	B	1900 daN(kg)	1350 daN(kg)	1600 daN(kg)	-	8	4 kN	3,6 %	0,3 %	51 g	43 %	57 %	4 %	Polyamide
ANTIPODES 10 mm	EN 1891	CE	A	2400 daN(kg)	1700 daN(kg)	1800 daN(kg)	-	6	4,3 kN	4,4 %	0 %	62 g	43 %	57 %	4 %	Polyamide
SPECIAL ROPES																
ERGO 12,5 mm	EN 1891	CE	A	3800 daN(kg)	2500 daN(kg)	-	2700 daN(kg)	> 20	5,2 kN	2,9 %	0 %	101g	43 %	57 %	3,7 %	Polyamide
AUSTRALIS 11,5 mm	AS4143.3	-	-	3490 daN(kg)	-	-	-	-	-	-	0 %	93,7 g	42 %	58 %	-	
ROPES FOR TREE WORK																
BILOBA 11,5 mm	EN 1891	CE	A	3000 daN(kg)	1800 daN(kg)	-	2500 daN(kg)	> 15	5 kN	3,8 %	0 %	89 g	44 %	56 %	2,8 %	Sheath: Polyester Core: Polyamide
GINKGO 12 mm	EN 1891	CE	A	2700 daN(kg)	1600 daN(kg)	-	2200 daN(kg)	> 8	5,7 kN	4 %	0 %	92 g	69 %	31 %	2,8 %	Sheath: Polyester Core: Polyamide
BAOBAB 13,5 mm UNICORE	EN 1891	CE	A	3000 daN(kg)	1900 daN(kg)	-	2300 daN(kg)	> 20	5,1 kN	5 %	0 %	119 g	82 %	18 %	2 %	Sheath: Polyester Core: Polyamide
BONSAI 13 mm	EN 1891	CE	A	3400 daN(kg)	1800 daN(kg)	-	2500 daN(kg)	> 20	5,3 kN	4,2 %	0 %	98 g	61 %	39 %	4,5 %	Polyamide
REGATE 10 mm	-	CE	-	1700 daN(kg)	-	-	-	-	-	-	-	73 g	-	-	-	Polyester
INTERVENTION ROPES																
RAIDER 10,5 mm	EN 1891	CE	B	2300 daN(kg)	1800 daN(kg)	-	2200 daN(kg)	6	4,6 kN	3,2 %	0 %	69 g	32 %	68 %	0,5 %	Sheath: Aramid Core: Polyamide
RAIDER 11 mm	EN 1891	CE	B	2600 daN(kg)	1900 daN(kg)	-	2200 daN(kg)	8	4,7 kN	3,3 %	0,6 %	81 g	41 %	59 %	0,5 %	Sheath: Aramid Core: Polyamide
RAIDER TACTIC 11 mm	EN 1891	CE	A	2400 daN(kg)	1800 daN(kg)	-	2200 daN(kg)	6	5,9 kN	3,2 %	0 %	75 g	30 %	70 %	0,5 %	Sheath: Aramid Core: Polyamide
SEMI-STATIC INTERVENTION																
ACCESS 10,5 mm UNICORE	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	2100 daN(kg)	2400 daN(kg)	16	5,1 kN	3 %	0 %	65 g	38 %	62 %	2,5 %	Polyamide
INTERVENTION 9 mm	EN 1891	CE	B	1900 daN(kg)	1350 daN(kg)	1600 daN(kg)	-	8	4 kN	3,6 %	0,3 %	51 g	43 %	57 %	4 %	Polyamide
INTERVENTION 10 mm	EN 1891	CE	A	2400 daN(kg)	1700 daN(kg)	1800 daN(kg)	-	6	4,3 kN	4,4 %	0 %	62 g	43 %	57 %	4 %	Polyamide
INTERVENTION 10,5 mm	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	2100 daN(kg)	2400 daN(kg)	16	5,1 kN	3 %	0,8 %	65 g	38 %	62 %	5 %	Polyamide
INTERVENTION 11 mm	EN 1891	CE	A	3200 daN(kg)	2100 daN(kg)	2200 daN(kg)	2400 daN(kg)	20	5,1 kN	2,8 %	0,8 %	73 g	36 %	64 %	4 %	Polyamide
INTERVENTION 11,5 mm	EN 1891	CE	A	3400 daN(kg)	2300 daN(kg)	2400 daN(kg)	2600 daN(kg)	> 20	5,3 kN	2,6 %	0,5 %	78 g	38 %	62 %	5 %	Polyamide
DYNAMIC ROPES																
TOP GUN II 10,5 mm UNICORE	EN 892	CE	①	2100 daN(kg)	-	-	1700 daN(kg)	Factor 2 11	-	-	-	68 g	40 %	60 %	-	Polyamide
SOFT FAST ROPE 40 mm	-	-	-	7600 daN(kg)	-	-	-	-	-	-	-	94 kg / 100 m	-	-	-	Polyamide
TEXTURIZED FAST ROPE 44 mm	-	-	-	Polyamide sling termination: 6000 kg Metal termination: 3000 kg	-	-	-	-	-	-	-	96 kg / 100 m	-	-	-	Polyamide
Standard reference	EN 1891	-	Type A	>2200 daN(kg)	>1500 daN(kg)	-	>1500 daN(kg)	> 5/100 kg	< 6kN	≤ 5 %	20 mm + 10 (D-9 mm)	-	-	-	-	
		-	Type B	>1800 daN(kg)	>1200 daN(kg)	-	>1200 daN(kg)	> 5/80 kg	< 6kN	≤ 5 %	< 15 mm	-	-	-	-	

ACCESS 10,5 mm
UNICORE

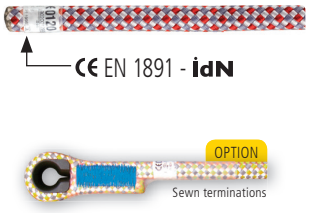
Thanks to the UNICORE Process, Access ropes reach a new level in security.
In effect, the UNICORE Process integral to this 10.5 mm rope will secure most delicate operations, whilst retaining lightness and flexibility.

Performances	
idN NUMBER	
Type	A
Weight per metre	65 g
Breaking load	3000 daN (kg)
% of the sheath	38 %
Strength with sewn terminations	2400 daN (kg)
Standard CE	EN 1891

Ref.
blue: BCSA105.100.B (100m) / BCSA105.200.B (200m) / BCSA.105.500.B (500m)
orange: BCSA105.100.O (100m) / BCSA105.200.O (200m) / BCSA.105.500.O (500m)

ACCESS 11 mm
UNICORE

With UNICORE as standard, bonding core and sheath for maximum security in all situations.



Performances	
idN NUMBER	
Type	A
Weight per metre	73 g
Breaking load	3200 daN (kg)
% of the sheath	36 %
Strength with sewn terminations	2400 daN (kg)
Standard CE	EN 1891

Ref.
red: BCSA11.100.R (100m) / BCSA11.200.R (200m) / BCSA11.500.R (500m)
yellow: BCSA11.100.Y (100m) / BCSA11.200.Y (200m) / BCSA11.500.Y (500m)

ANTIPODES 10,5 mm

Very tough, this is the established standard rope for work at height.
Same construction as the INDUSTRIE 10.5 mm.

Performances	
idN NUMBER	
Type	A
Weight per metre	65 g
Breaking load	3000 daN (kg)
% of the sheath	38 %
Strength with sewn terminations	2400 daN (kg)
Standard CE	EN 1891

Ref. white: BCS105.50 (50m) / BCS105.100 (100m) / BCS105.200 (200m) / BCS105.500 (500m)

ANTIPODES 11,5 mm

Great abrasion resistance for the most demanding applications.

Performances	
idN NUMBER	
Type	A
Weight per metre	78 g
Breaking load	3400 daN (kg)
% of the sheath	38 %
Strength with sewn terminations	2600 daN (kg)
Standard CE	EN 1891

Ref.
white: BCS115.100 (100m) / BCS115.200 (200m)
red: BCS115.200.R (200m)

INDUSTRIE 10,5 mm

This rope is specially adapted to the requirements of work at height companies.

Ref.
white with sewn termination: BCSI105.10TERM (10m) / BCSI105.20TERM (20m) / BCSI105.30TERM (30m) / BCSI105.40TERM (40m) / BCSI105.50TERM (50m) / BCSI105.60TERM (60m)

Performances	
Type	A
Weight per metre	65 g
Breaking load	3000 daN (kg)
% of the sheath	38 %
Strength with sewn terminations	2400 daN (kg)
Standard CE	EN 1891

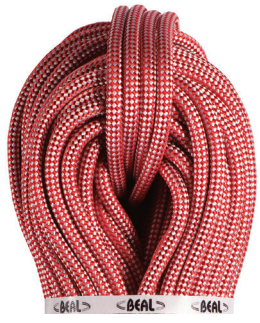
Ref.
white: BCSI105.50 (50m) / BCSI105.100 (100m) / BCSI105.200 (200m) / BCSI105.500 (500m)
red: BCSI105.50.R (50m) / BCSI105.100.R (100m) / BCSI105.200.R (200m) / BCSI105.500.R (500m)
blue: BCSI105.100.B (100m) / BCSI105.200.B (200m)

INDUSTRIE 11 mm

An ideal rope with no diameter restrictions for security in work at height.

Ref.
white with sewn termination: BCSI11.10TERM (10m) / BBCSI11.20TERM (20m) / BCSI11.30TERM (30m) / BCSI11.40TERM (40m) / BCSI11.50TERM (50m) / BCSI11.60TERM (60m)
red with sewn termination: BCSI11.10TERM.R (10m) / BCSI11.20TERM.R (20m) / BCSI11.30TERM.R (30m) / BCSI11.40TERM.R (40m) / BCSI11.50TERM.R (50m) / BCSI11.60TERM.R (60m)

Performances	
Type	A
Weight per metre	73 g
Breaking load	3200 daN (kg)
% of the sheath	36 %
Strength with sewn terminations	2400 daN (kg)
Standard CE	EN 1891



Ref.
white: BCSI11.50 (50m) / BCSI11.100 (100m) / BCSI11.200 (200m) / BCSI11.500 (500m)
red: BCSI11.50.R (50m) / BCSI11.100.R (100m) / BCSI11.200.R (200m) / BCSI11.500.R (500m)
blue: BCSI11.50.B (50m) / BCSI11.100.B (100m) / BCSI11.200.B (200m) / BCSI11.500.B (500m)
orange: BCSI11.100.O (100m) / BCSI11.200.O (200m)

INDUSTRIE 12 mm

An ideal work at height rope when a large rope diameter is required for greater security.

Performances	
Type	A
Weight per metre	94 g
Breaking load	4200 daN (kg)
% of the sheath	34 %
Strength with sewn terminations	3000 daN (kg)
Standard CE	EN 1891

Ref.
white: BCSI12.200 (200m) / **red:** BCSI12.200.R (200m)

CONTRACT 10,5 mm

Type A rope with the optimum balance quality/ price.

Performances	
Type	A
Weight per metre	66 g
Breaking load	2500 daN (kg)
% of the sheath	39 %
Strength with sewn terminations	2200 daN (kg)
Standard CE	EN 1891

Ref. white: BCS105C.20 (20m) / BCS105C.30 (30m) / BCS105C.40 (40m) / BCS105C.50 (50m) / BCS105C.60 (60m) / BCS105C.80 (80m) / BCS105C.100 (100m) / BCS105C.200 (200m) / BCS105C.500 (500m)

TOP WORK 10,5 mm

A rope particularly resistant to abrasion due to its higher percentage of sheath.

Performances	
idN NUMBER	
Type	A
Weight per metre	64 g
Breaking load	2600 daN (kg)
% of the sheath	44 %
Strength with sewn terminations	2200 daN (kg)
Standard CE	EN 1891

Ref. white: BCSPW105.200 (200m)

NORTH SEA 11 mm

Specially developed in collaboration with one of the principal oil companies for use in difficult conditions on oil rigs.
Great handling and maximum durability.

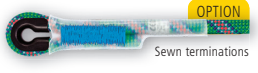
Performances	
idN NUMBER	
Type	A
Weight per metre	75 g
Breaking load	2800 daN (kg)
% of the sheath	44 %
Strength with sewn terminations	2200 daN (kg)
Standard CE	EN 1891

Ref. white: BCSPW11.200 (200m)

DYNAMICS ROPES

TOP GUN II 10,5 mm
UNICORE

Dynamic ropes cushion impacts and must be used during certain procedures to absorb the energy of possible falls.



Performances	
idN NUMBER	
Type	1
Weight per metre	68 g
Breaking load	2100 daN (kg)
% of the sheath	40 %
Strength with sewn terminations	1700 daN (kg)
Standard CE	EN 892

Ref.
green: BC105T.50.G (50m) / BC105T.60.G (60m) / BC105T.70.G (70m) / BC105T.200.G (200m)
blue: BC105T.50.B (50m) / BC105T.60.B (60m) / BC105T.70.B (70m) / BC105T.200.B (200m)

APOLLO 11 mm

Dynamic ropes cushion impacts and must be used during certain procedures to absorb the energy of possible falls.

Performances	
idN NUMBER	
Type	1
Weight per metre	75 g
Breaking load	2300 daN (kg)
% of the sheath	35 %
Standard CE	EN 892

Ref.
red: BC11A.50.R (50m) / BC11A.60.R (60m) / BC11A.200.R (200m)
anise: BC11A.50.A (50m) / BC11A.60.A (60m) / BC11A.200.A (200m)

DYNASTAT 10,5 mm

Security rope which conforms to 2 standards, both the semi-static and the dynamic rope standards.
It's thus a classic semi-static rope well adapted to various types of work on ropes, to rescue, and to tactical applications.
In event of a very violent fall an internal Vectran 'fuse' will rupture, and the rope then becomes dynamic, with all the security that characterises dynamic ropes.
The fuse will rupture under a force of around 3 kN.
In addition, DYNASTAT resists a fall factor 1 drop holding 100 kg over a sharp metal edge of 0.75 mm radius.
Ideal for delicate operations at height, pylon climbing, clock towers, rescue and fast technical intervention.

Performances	
idN NUMBER	
Type	A
Weight per metre	75 g
Breaking load	2500 daN (kg)
% of the sheath	44 %
Strength with sewn terminations	1900 daN (kg)
Standard CE	EN 892 EN 1891

STRONG POINTS

- **Semi-static and dynamic rope giving security in a wide range of circumstances.**
- **Very low stretch of just 2 % in use.**
- **Semi-static rope that does not shrink, and thus doesn't stiffen up.**
- **A rope that's supple, with very agreeable handling.**

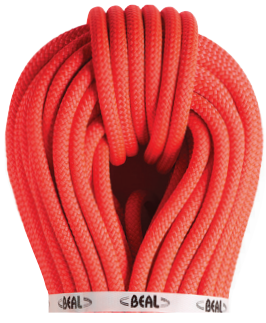
Ref. black & yellow: BCDS105.50 (50m) / BCDS105.60 (60m)

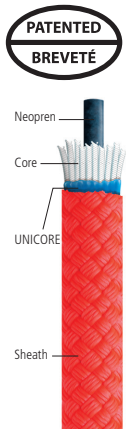
FLOATING ROPE

PRO WATER 11 mm
UNICORE

Floating type A semi-static rope for work at height above water (off-shore wind farms, oil rigs).
It can also be used for swift water rescues. A new patented technique allows PRO WATER 11 mm to become the first floating semi-static type A rope on the market. Thanks to limited shrinking in water, its suppleness is maintained and knots remain easy to tie. In case of an operative falling into water, boat based emergency services can easily see this orange rope which, because of its floatability, is unlikely to get tangled in propellers.
PRO WATER rope benefits from all the advantages of UNICORE technology thus giving it a real increase in security.

Performances	
idN NUMBER	
Type	A
Weight per metre	80 g
Breaking load	2500 daN (kg)
% of the sheath	33 %
Standard CE	EN 1891





Ref. orange: BCSW11.100 (100m) / BCSW11.200 (200m)

RESCUE 10,5 mm

Semi-static type A rope with a polyester sheath.
Its fluorescent orange colour make it particularly suited for use in rescues.

Performances	
Type	A
Weight per metre	65 g
Breaking load	3000 daN (kg)
% of the sheath	38 %
Strength with sewn terminations	2400 daN (kg)
Standard CE	EN 1891

Ref. orange: BCSR105.200 (200m)

RESCUE VLS 11,3 mm

The Rescue VLS is a very low stretch rope designed for technical rope rescue.
VLS for Very Low Stretch.

Elongation 50-150kg : 0,8%

Performances	
Weight per metre	94 g
Breaking load	3600 daN (kg)
% of the sheath	43 %
Strength with sewn terminations	2800 daN (kg)
Standard NFPA	Conforms to the main requirements of the NFPA 1983-2012 standard

Ref.
yellow Fluorescent: BCSR113.200.Y (200m) / **black:** BCSR113.200.BK (200m)

REACTIVE 10,5 mm

A specialist rope for rescues in low light conditions. Highly visible as soon as a light source is pointed towards it thanks to a reflective yarn that is woven through the sheath.

⚠ Warning
The reflective yarn is very fragile and wears rapidly when subjected to abrasion, although it maintains its reflective properties. Its wear does not affect the rope's strength.

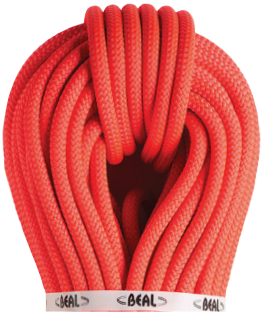
Performances	
Type	A
Weight per metre	67 g
Breaking load	3000 daN (kg)
% of the sheath	37 %
Strength with sewn terminations	2800 daN (kg)
Standard CE	EN 1891

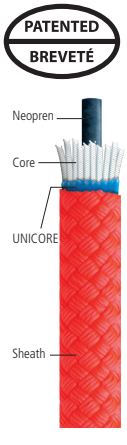
Ref. yellow Fluorescent: BCSRR105.200 (200m)

PRO WATER 11 mm
UNICORE

Floating type A semi-static rope for work at height above water (off-shore wind farms, oil rigs).
It can also be used for swift water rescues. A new patented technique allows PRO WATER 11 mm to become the first floating semi-static type A rope on the market. Thanks to limited shrinking in water, its suppleness is maintained and knots remain easy to tie. In case of an operative falling into water, boat based emergency services can easily see this orange rope which, because of its floatability, is unlikely to get tangled in propellers.
PRO WATER rope benefits from all the advantages of UNICORE technology thus giving it a real increase in security.

Performances	
Type	A
Weight per metre	80 g
Breaking load	2500 daN (kg)
% of the sheath	33 %
Standard CE	EN 1891





Ref. orange: BCSW11.100 (100m) / BCSW11.200 (200m)

EFFECT OF HIGH TEMPERATURES ON ARAMID

The resistance of Aramid to high temperatures is best illustrated by the graph illustrating the residual strength after exposure to raised temperatures. Thus we may for example see that after 10 hours of exposure at 200° C it retains 100 % of its strength, or that after 1 hour at 350° C it retains 90 % of its strength.

TEST WITH BLOWTORCH

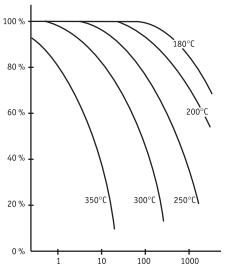
Semi-static rope holding a mass of 100 kg exposed to a temperature of 400° C (+ or- 50° C) for 15 minutes.

Results:
- Classic 11 mm rope: Break after around **40 seconds**.
- RAIDER 11 mm rope: Residual strength **around 1500 daN** after 15 minutes.
- RAIDER TACTIC 11 mm rope: residual strength around **1000 daN** after 15 minutes.

TEST AGAINST A RED HOT BAR

The rope supports a 100 kg mass.
It is held clear of a 25 mm bar heated red-hot.
It is released against the bar and the time to rupture measured.

Results:
- Classic 11 mm rope: **3 seconds**
- HOTLINE 11 mm: **5 seconds**
- RAIDER TACTIC 11 mm: **8 seconds**
- RAIDER 11 mm: **18 seconds**



Relationship between time of exposure at high temperature and residual strength of Aramid.

RAIDER 10,5 mm

Semi-static Type B rope with an Aramid sheath capable of withstanding a long period close to a major source of heat.

Performances	
idN NUMBER	
Type	B
Weight per metre	69 g
Breaking load	2300 daN (kg)
% of the sheath	32 %
Strength with sewn terminations	2200 daN (kg)
Standard CE	EN 1891

Ref. black: BCSK105R.200 (200m)

RAIDER 11 mm

Semi-static Type B rope with an Aramid sheath capable of withstanding a long period close to a major source of heat.

Performances	
idN NUMBER	
Type	B
Weight per metre	81 g
Breaking load	2600 daN (kg)
% of the sheath	41 %
Strength with sewn terminations	2200 daN (kg)
Standard CE	EN 1891

Ref. black: BCSK11R.200 (200m)

RAIDER TACTIC 11 mm

The thickness of the sheath of RAIDER TACTIC has been reduced and the quantity of the core increased Sheath Aramid Core to allow it to be certified as a Type A rope .

Performances	
idN NUMBER	
Type	A
Weight per metre	75 g
Breaking load	2400 daN (kg)
% of the sheath	30 %
Strength with sewn terminations	2200 daN (kg)
Standard CE	EN 1891

Ref. black: BCSK11RT.200 (200m)

CHEMICAL RESISTANCE OF ARAMID YARN

(exposure for 100 hours)

ACIDS	Residual Tenacity in %age
Hydrochloric 20 % at 20° C	98 %
Nitric 10 % at 20° C	99 %
Sulphuric 20 % at 95° C	93 %
Sulphuric 40 % at 95° C	89 %
Acetic 40 % at 95° C	97 %
Formic 90 % at 95° C	82 %

BASES	Residual Tenacity in %age
Soda 10 % at 95° C	75 %
Wet cement at 95° C	93 %
Ammonia at 20° C	100 %

Other Chemical Products	Residual Tenacity in %age
Petrol / Gas	98 %
Benzene	98 %
Methyl Ethyl Cetone	97 %
Ethylene Glycol	94 %
Phenol	95 %
Sea water	100 %

HOTLINE 11 mm

Semi-static rope with an interior sheath in Aramid, covered by a classic sheath.
HOTLINE rope allows access in the presence of certain dangerous chemicals.

Performances	
IdN NUMBER	
Type	A
Weight per metre	79 g
Breaking load	2500 daN (kg)
% of the sheath	42 %
Strength with sewn terminations	2200 daN (kg)
Standard CE	EN 1891

Ref. white: BCSK11.200 (200m)

RAIDER 11 mm

Semi-static Type B rope with an Aramid sheath capable of withstanding a long period close to a major source of heat.

Performances	
IdN NUMBER	
Type	B
Weight per metre	81 g
Breaking load	2600 daN (kg)
% of the sheath	41 %
Strength with sewn terminations	2200 daN (kg)
Standard CE	EN 1891

Ref. black: BCSK11R.200 (200m)

ANTIPODES 9 mm

Semi-Static type B rope, ultra light, but necessitating great care during use.

CE EN 1891 - idN

Ref.
white: BCS09.100 (100m) / BCS09.200 (200m)
red: BCS09.100.R (100m) / BCS09.200.R (200m)

Performances	
idN NUMBER	
Type	9 mm : B 10 mm : A
Weight per metre	9 mm : 51 g 10 mm : 62 g
Breaking load	9 mm : 1900 daN (kg) 10 mm : 2400 daN (kg)
% of the sheath	43 %
Standard CE	EN 1891

ANTIPODES 10 mm

The lightest of the type A ropes with a margin of security sufficient for some industrial uses.

CE EN 1891 - idN

Ref.
white: BCS10.100 (100m) / BCS10.200 (200m)
red: BCS10.100.R (100m) / BCS10.200.R (200m)

SPECIAL ROPES

AUSTRALIS 11,5 mm

Specially developed to meet the requirements of Australian standard AS4143.3, this very low stretch rope has a sheath in polyester and is constructed like the American ropes.

STRONG POINTS

- **Reduction in shrinkage (polyester).**
- **Better heat resistance (Melting point of polyester 260° C).**
- **Better abrasion resistance due to a thick sheath.**

Performances	
idN NUMBER	
Type	-
Weight per metre	93,7 g
Breaking load	3490 daN (kg)
% of the sheath	42 %
Standard	AS4143.3

AS4143.3 - idN

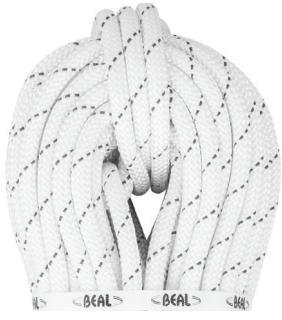
Ref. BCSA115.200

ERGO 12,5 mm

Designed to meet the needs of firefighters in their different tasks, conforming to civil security code NIT no. 129-83-92 and to the Standard EN 1891.

CE EN 1891 - idN

Performances	
idN NUMBER	
Type	A
Weight per metre	101 g
Breaking load	3800 daN (kg)
% of the sheath	43 %
Strength with sewn terminations	2700 daN (kg)
Standard CE	EN 1891

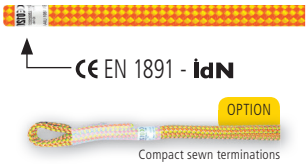


Ref. white: BCSE125.30 (30m) / BCSE125.60 (60m) / BCSE125.100 (100m) / BCSE125.200 (200m)

BILOBA 11,5 mm

A lightweight arborist rope specially designed for use with mechanical Prusiks. Its double braided construction makes the rope particularly supple. Fluorescent colours ensure the rope is highly visible.

Materials: polyester sheath, polyamide core



Performances	
Type	A
Weight per metre	89 g
Breaking load	3000 daN (kg)
% of the sheath	44 %
Strength with sewn terminations	1800 daN (kg)
Standard CE	EN 1891

Ref. orange & yellow: BCSE115.200 (200m)

orange & yellow with sewn termination: BCSE115.20TERM (20m) / BCSE115.30TERM (30m) / BCSE115.35TERM (35m) / BCSE115.40TERM (40m) / BCSE115.50TERM (50m) / BCSE115.60TERM (60m)
orange & yellow with two ending: BCSE115.20TERM (20m) / BCSE115.30TERM (30m) / BCSE115.35TERM (35m) / BCSE115.40TERM (40m) / BCSE115.50TERM (50m) / BCSE115.60TERM (60m)

GINKGO 12 mm

Made along the same lines as the BAOBAB, its thinner diameter makes a lighter rope, more supple and easier to handle than BAOBAB. It benefits from a new, glueless procedure for bonding the sheath onto the core, preventing all slippage, but still allowing splices to be made.

Performances	
Type	A
Weight per metre	92 g
Breaking load	2700 daN (kg)
% of the sheath	69 %
Strength with sewn terminations	2200 daN (kg)
Standard CE	EN 1891

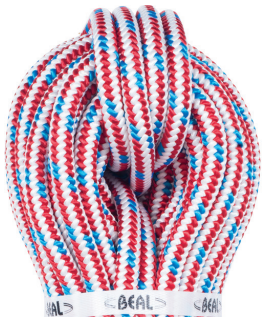
Ref. black & yellow: BCSE12.200 (200m)

black & yellow with sewn termination: BCSE12.20TERM (20m) / BCSE12.30TERM (30m) / BCSE12.35TERM (35m) / BCSE12.40TERM (40m) / BCSE12.50TERM (50m) / BCSE12.60TERM (60m)
black & yellow with two ending: BCSE12.20TERM2 (20m) / BCSE12.30TERM2 (30m) / BCSE12.35TERM2 (35m) / BCSE12.40TERM2 (40m) / BCSE12.50TERM2 (50m) / BCSE12.60TERM2 (60m)

BAOBAB 13,5 mm
UNICORE

Its braiding results from the technology of American tree workers, giving it great qualities of strength, pliability and easy handling.
The UNICORE process which bonds the core and sheath prevents sheath slippage during use with self-loacking loops.

Performances	
Type	A
Weight per metre	119 g
Breaking load	3000 daN (kg)
% of the sheath	82 %
Strength with sewn terminations	2300 daN (kg)
Standard CE	EN 1891



Ref. red & white: BCSE135.200 (200m)

red & white with sewn termination: BCSE135.20TERM2 (20m) / BCSE135.30TERM2 (30m)

BONSAÏ 13 mm

This multi-use rope, with an excellent handling/ solidity balance, allows you to undertake all types of tree work in full security.

Performances	
Type	A
Weight per metre	98 g
Breaking load	3400 daN (kg)
% of the sheath	61 %
Strength with sewn terminations	2500 daN (kg)
Standard CE	EN 1891

Ref. blue & white: BCSE13.200 (200m)
Blue & white with sewn termination: BCSE13.20TERM (20m) / BCSE13.30TERM (30m) / BCSE13.40TERM (40m) / BCSE13.50TERM (50m)
Blue & white with two sewn terminations: BCSE13.20TERM2 (20m) / BCSE13.30TERM2 (30m) / BCSE13.40TERM2 (40m) / BCSE13.50TERM2 (50m)

ROPES FOR PRUSIKS

REGATE 10 mm

Its double braid polyester serves to make prusik loops.
This 10 mm diameter rope, with high abrasion resistance, runs perfectly.

Performances	
Weight per metre	75 g

Ref. **black / yellow / white:** BREG10.100 (100m)

VOLCANO 8 / 10 / 12 mm

Short lengths of rope with sewn terminations for constructing self-locking (prusik) loops. These ropes have a 50 % aramid construction intermixed with polyester filaments. Prusiks made from classic ropes have a very short life, because they glaze in use due to the effect of friction. The presence of 50 % of highly thermally resistant aramid fibres in VOLCANO protect it against melting and thus greatly increases its lifetime.
Available in 10 and 12 mm, and 70 and 90 cm lengths, to suit different types of knots.

The 10 mm VOLCANO also comes in cut lengths:
- In multiples of 10 cm.
- Maximum length 200 cm.
- Minimum 50 pieces per length.

Diameter	8 / 10 / 12 mm
Breaking load	2200 daN (kg)
Standard CE	EN 354

Ref.
8 mm red & yellow: BV08.70 (70cm) / BV08.90 (90cm)
12 mm red & yellow: BV12.70 (70cm) / BV12.90 (90cm)
10 mm red & yellow: BV10.70 (70cm) / BV10.90 (90cm)

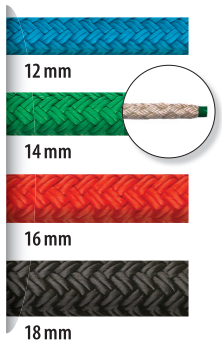
RETENTION ROPES

The regulations require the application of a coefficient of 7 to all lifting ropes. Breaking load divided by 7 = WLL (Working Load Limit). The weight of the branches must not exceed the Working Load Limit for dismantling in total security. BEAL retention ropes are colour coded by diameter and thus by strength in order to avoid errors.

GOLIATH

Coming from the technology of American tree dismantling ropes, GOLIATH is a static double braid rope of 100 % polyester pre-stretched with a polyurethene coating for better abrasion resistance. This rope has an excellent strength/diameter ratio.

Ref.
blue: BLG12 (12mm) / **green:** BLG14 (14mm) / **red:** BLG16 (16mm) / **black:** BLG18 (18mm)



	Diameter	Breaking load	CMU	Weight per metre	Material
GOLIATH 12	12 mm	4200 daN (kg)	600 daN (kg)	128 g	Polyester
GOLIATH 14	14 mm	5500 daN (kg)	780 daN (kg)	179 g	Polyester
GOLIATH 16	16 mm	6700 daN (kg)	950 daN (kg)	219 g	Polyester
GOLIATH 18	18 mm	8000 daN (kg)	1000 daN (kg)	260 g	Polyester

DISMANTLING SLINGS

Slings allowing a pulley to be fixed at height in the tree, and on the other hand the braking system at the base of the trunk.

ADJUSTABLE TRUNK SLING

Manufactured from hollow braid polyester with a polyurethane coating, this adjustable sling is principally designed for the attachment of braking systems at ground level, at the base of the trunk. Its conception allows it to adapt exactly to different trunk diameters.
Available in two lengths: 3 and 4 m.

Ref. yellow: BLT3 (3m) / BLT5 (5m) / BLT7 (7m)

TOP TRUNK SLING
(Pulley attachment)

Manufactured from hollow braid polyester with a polyurethane coating, this sling is specifically adapted to light removals up to 1100 daN(kg) WLL.
Available in two lengths: 3 and 4 m.

Ref. yellow: BLTT3 (3m) / BLTT4 (4m)

TOP TRUNK SLING DYNEEMA 5 m

(High strength pulley attachment)
Of identical construction to TOP TRUNK, with a Dyneema sheath which gives it exceptional breaking load and a WLL of more than 2000 daN(kg) !

Ref. grey: BLTTD5 (5m)

	TRUNK	TOP TRUNK	TOP TRUNK DYNEEMA
Diameter	20 mm	20 mm	18 mm
Breaking load	8000 daN (kg)	8000 daN (kg)	18000 daN (kg)
CMU	1100 daN (kg)	1100 daN (kg)	2500 daN (kg)
Weight per metre	240 g	240 g	160 g
Material	Polyester	Polyester	Dyneema

RAIDER 10,5 mm

Type B semi-static ropes specially developed for rapid descent from helicopters by special forces. Their Aramid sheath does not melt, even against a descender overheated by the descent.
Whereas classic ropes in polyamide or polyester have a very limited lifetime because their sheath melts, rendering the rope stiff and useless, RAIDER ropes permit multiple descents.

Performances	
idN NUMBER	
Type	B
Weight per metre	69 g
Breaking load	2300 daN (kg)
% of the sheath	32 %
Strength with sewn terminations	2200 daN (kg)
Standard CE	EN 1891

Ref. black: BCSK105R.200 (200m)

RAIDER 11 mm

Type B semi-static ropes specially developed for rapid descent from helicopters by special forces. Their Aramid sheath does not melt, even against a descender overheated by the descent.
Whereas classic ropes in polyamide or polyester have a very limited lifetime because their sheath melts, rendering the rope stiff and useless, RAIDER ropes permit multiple descents.

Performances	
idN NUMBER	
Type	B
Weight per metre	81 g
Breaking load	2600 daN (kg)
% of the sheath	41 %
Strength with sewn terminations	2200 daN (kg)
Standard CE	EN 1891

Ref. black: BCSK11R.200 (200m)

RAIDER TACTIC 11 mm

As with the 11 mm RAIDER rope, designed for multiple descents, the RAIDER TACTIC 11 mm is slightly more limited.
The thickness of the Aramid sheath has been reduced, and the amount of core increased, in order for RAIDER TACTIC 11 mm to be certifiable as a Type A rope.

Performances	
idN NUMBER	
Type	A
Weight per metre	75 g
Breaking load	2400 daN (kg)
% of the sheath	30 %
Strength with sewn terminations	2200 daN (kg)
Standard CE	EN 1891

Ref. black: BCSK11RT.200 (200m)

TOP GUN II 10,5 mm ①
UNICORE

Dynamic ropes cushion impacts and must be used during certain interventions to absorb the energy of any falls.

Performances	
idN NUMBER	
Type	①
Weight per metre	68 g
Breaking load	2100 daN (kg)
% of the sheath	40 %
Strength with sewn terminations	1700 daN (kg)
Standard CE	EN 892

Ref. BC105T.200.BK
BC105T.50.BK
BC105T.60.BK

ACCESS 10,5 mm
UNICORE

Thanks to the **UNICORE** Process, ACCESS ropes reach a new level in security. By special order only.

Performances	
idN NUMBER	
Type	A
Weight per metre	65 g
Breaking load	3000 daN (kg)
% of the sheath	38 %
Strength with sewn terminations	2400 daN (kg)
Standard CE	EN 1891

Ref black: BCSA105.200.BK (200m)

INTERVENTION

Semi-static ropes are endowed with moderate stretch to facilitate interventions and abseils at moderate speed.

Performances		
idN NUMBER		
Type	9 mm : B 10 mm : A 10,5 mm : A	11 mm : A 11,5 mm : A
Weight per metre	9 mm : 51 g 10 mm : 62 g 10,5 mm : 65 g	11 mm : 73 g 11,5 mm : 78 g
Breaking load	9 mm : 1900 daN(kg) 10 mm : 2400 daN(kg) 10,5 mm : 3000 daN(kg)	11 mm : 3200 daN(kg) 11,5 mm : 3400 daN(kg)
% of the sheath	9 mm : 43 % 10 mm : 43 % 10,5 mm : 38 %	11 mm : 36 % 11,5 mm : 38 %
Strength with sewn terminations	9 mm / 10 mm : - 10,5 mm / 11 mm : 2400 daN(kg)	11,5 mm : 2600 daN(kg)
Standard CE	EN 1891	

Ref black: BCSN09.200 (9mm/200m) / BCSN10.200 (10mm/200m) / BCSN105.50 (10,5mm/50m) / BCSN105.60 (10,5mm/60m) / BCSN105.100 (10,5mm/100m) / BCSN105.200 (10,5mm/200m) / BCSN11.50 (11mm/50m) / BCSN11.100 (11mm/100m) / BCSN11.200 (11mm/200m) / BCSN115.200 (11,5mm/200m)

TAPES AND SLINGS

FLAT WEBBING

26 mm / 1500 kg / CE EN 565

18 mm / 1600 kg / CE EN 565

Ref.
BSP26UNI.100 (26mm / 100m)
BSP18.100 (18mm / 100m)

ROUND SLINGS

18 mm / 2200 kg / CE EN 566 / CE EN 795 B + CE EN 354

30 mm / 2200 kg / CE EN 566

26 mm / 2200 kg / CE EN 566

Ref. PLATE 18MM
30CM : BSA30.5.BK
40CM : BSA40.5.BK
50CM : BSA50.5.BK
60CM : BSA60.5.BK
80CM : BSA80.5.BK
100CM : BSA100.5.BK
120CM : BSA120.5.BK
150CM : BSA150.5.BK
175CM : BSA175.5.BK

Ref. PLATE 26MM
100CM : BSA26.100.5
120CM : BSA26.120.5
150CM : BSA26.150.5
175CM : BSA26.175.5

Ref. PLATE 30MM
100CM : BSA30.100.5
120CM : BSA30.120.5
150CM : BSA30.150.5
175CM : BSA30.175.5

TUBULAR WEBBING

Ref.
BST26.100 (100m)

26 mm / 1600 kg / CE EN 565

Tested and approved by special forces around the world, BEAL FAST ROPE has been specifically developed for rapid descent from helicopters without the aid of a descender, just the friction of gloves !

SOFT FAST ROPE 40 mm

Its soft and flexible construction promotes a comfortable and precise descent.
FAST ROPE is available with 2 types of terminations:

- **EYE SPLICE:**
  A large diameter splice, facilitating the deployment of the rope from scaffolding and larger beams, in order to simulate practice descents from helicopters.

- **DLT. Dynalite termination (not available in France):**
  Lightweight textile termination, composed of a Dyneema slingspliced onto the rope end. Allows rapid fixing to most anchor points. At the moment of release the absence of metal in the termination eliminates the risk of injury to persons, or damage to boat bridges. The DLT termination must be checked before every use.

Ref.
SOFT FAST ROPE + SPLICE 18m: BFR60.EP
SOFT FAST ROPE + DLT 18 m : BFR60.DLT
SOFT FAST ROPE + SPLICE 27,5m : BFR90.EP
SOFT FAST ROPE + DLT 27,5m : BFR90.DLT

TEXTURIZED FAST ROPE 44 mm

Its construction from completely textured strands makes the rope more slippery yet more durable.

- **Polyamide sling termination**
  Suitable for most anchors. No metal part that can cause injury.

- **Metal termination**
  A crimped metal end piece allows the rope to be fixed to a helicopter.

Ref.
TEXTURIZED FAST ROPE + LOOP 18m: BFRT60.L
TEXTURIZED FAST ROPE + STEEL END 18m: BFRT60.ST
TEXTURIZED FAST ROPE + LOOP 27,5m: BFRT90.L
TEXTURIZED FAST ROPE + STEEL END 27,5m: BFRT90.ST