

TECHNICAL SPECIFICATIONS

STATIC ROPES

SUPERSTATIC pg. 3 - 4

Diameter (inches)	Diameter (millimeters)	MBS lb.	MBS kN	Weight (lb./100')	Elong. (10% of MBS)	Elong. (300 lbs.)	SWL (10:1)	NFPA 1983, 2006	CE
5/16"	9mm	4,901	21.8	3.8	4.7%	2.8%	491 lbs.	no	no
3/8"	10mm	5,815	25.8	4.7	5.0%	4.2%	581 lbs.	✓	✓
7/16"	11.5mm	6,745	30.0	6.0	6.0%	3.1%	674 lbs.	✓	✓
1/2"	13mm	9,241	41.1	7.9	7.7	3.0%	924 lbs.	✓	✓
5/8"	15.5mm	10,701	47.6	10.3	4.3%	0.8%	1,070 lbs.	✓	✓

HTP STATIC pg. 7 - 8

Diameter (inches)	Diameter (millimeters)	MBS lb.	MBS kN	Weight (lb./100')	Elong. (10% of MBS)	Elong. (300 lbs.)	SWL (10:1)	NFPA 1983, 2006	CE
5/16"	9mm	5,058	22.5	4.2	2.5%	1.3%	504 lbs.	✓	✓
3/8"	10mm	5,981	26.6	5.3	1.7%	1.0%	598 lbs.	✓	✓
7/16"	11mm	7,667	34.1	6.5	2.9%	1.7%	767 lbs.	✓	✓
1/2"	13mm	9,084	40.4	8.0	2.0%	0.8%	908 lbs.	✓	✓
5/8"	16mm	11,962	53.2	12.5	1.8%	0.9%	1,196 lbs.	✓	✓

SAFETYPRO pg. 5 - 6

Diameter (millimeters)	EN 1891 Type	CE	Static Strength	Factor 1 Falls Held	Impact Force (at fall factor 0.3)	Elongation (50kg to 150kg)	Static Strength (with Figure-8 knot)	Sheath Slippage	Weight per Meter	Sheath Percent.	Shrinkage in Water	Material
10mm	A	✓	28.3 kN	>5	5.5 kN	3.2%	19.1 kN	0.3%	62.5 g/m	40.3%	2.9%	Polyamide (Nylon)
10.5mm	A	✓	27.2 kN	>5	5.5 kN	3.5%	18.8 kN	0.8%	70.4 g/m	46.6%	2.5%	Polyamide (Nylon)
11mm	A	✓	35.7 kN	>5	5.8 kN	3.0%	23.4 kN	0.6%	76.6 g/m	40.9%	2.5%	Polyamide (Nylon)

WATER RESCUE

WATERLINE pg. 9

Diameter (inches)	Diameter (millimeters)	MBS lb.	MBS kN	Weight (lb./100')	Elong. (300 lbs.)	NFPA 1983, 2006
5/16"	8.0mm	1,600	7.1	2.1	7.8%	no
3/8"	9.5mm	3,440	15.3	3.3	4.0%	✓
7/16"	11.1mm	4,400	19.5	4.3	2.5%	no
1/2"	12.5mm	6,100	27.1	5.2	1.8%	no

GRABLINE pg. 9

Diameter (inches)	Diameter (millimeters)	MBS lb.	MBS kN	Weight (lb./100')	Elong. (300 lbs.)	NFPA 1983, 2006
3/8"	9.5mm	3,282	14.6	3.1	3.75%	✓

ULTRALINE pg. 10

Diameter (inches)	Diameter (millimeters)	MBS lb.	MBS kN	Weight (lb./50')	Elong. (300 lbs.)	NFPA 1983, 2006
1/4"	6.5mm	2,608	11.6	1.3	2.0%	no
3/8"	9.5mm	5,261	23.4	3.8	1.4%	✓

CANYONTECH AND C-IV pg. 10

Name	Diameter (millimeters)	Diameter (inches)	MBS lb.	MBS kN	Weight (lb./100')	Elong. (300 lbs.)	NFPA 1983, 2006
CanyonTech	9mm	5/16"	6,655	22.5	4.2	2.8%	no
Canyon C-IV	9mm	5/16"	5,486	24.4	3.2	6.1%	no

FIRE RESCUE

ESCAPE pg. 11 - 12

Name	Diameter (millimeters)	MBS lb.	MBS kN	Weight (lb./50')	Elong. (10% of MBS)	SWL (10:1)	NFPA 1983, 2006	CE	Fibers (sheath/core)
8mm PER	8mm	3,754	16.7	1.4	4.9%	375 lbs.	✓	✓	Nylon / Nylon
RIT 500	8mm	5,486	24.4	1.6	6.1%	548 lbs.	✓	✓	Twaron / Nylon
FireTech32	7.5mm	5,756	25.6	1.5	1.6%	575 lbs.	✓	✓	Technora / Technora
EscapeTech	7.5mm	3,912	17.4	1.3	5.8%	391 lbs.	✓	✓	Technora / Nylon
Tactical Response	9.5mm	6,655	29.6	2.1	3.2%	665 lbs.	no	no	Technora / Nylon

SEARCH pg. 13

Name	Diameter (millimeters)	MBS lb.	MBS kN	Weight (lb./50')	Elong. (10% of MBS)	SWL (10:1)	NFPA 1983, 2006	CE	Fibers (sheath/core)
RIT 900	6.8mm	4,200	18.7	.93	4.0%	420 lbs.	no	no	Twaron / NA
RIT Response	9mm	6,970	31.0	2.1	3.9%	697 lbs.	✓	✓	Twaron / Polyester
SearchLite	7.5mm	3,017	13.4	1.1	2.9%	301 lbs.	no	no	Nylon / Nylon, Technora



SEWN CORD

SEWN BOUND LOOP & LOOP pg. 19 - 20

Diameter	Nylon MBS lbs.	Nylon MBS kN
6mm	2,901	12.9
6mm PC	4,496	20.2
7mm	4,932	21.9
8mm	5,294	23.6
9mm	6,000	26.3

SEWN EYES pg. 20

Diameter	MBS lbs.	MBS kN
6mm XTec	3,435	15.3
6mm TRC	3,259	14.5
8mm ACC	3,440	16.7
9mm ACC	2,980	13.3
9mm SS	5,312	23.6
3/8" SS	6,430	28.2
7/16" SS	6,059	27.0
1/2" SS	9,241	41.1
5/8" SS	9,758	43.4

Diameter	MBS lbs.	MBS kN
9mm HTP	5,339	23.8
3/8" HTP	6,446	28.8
7/16" HTP	6,878	30.6
1/2" HTP	9,081	40.4
RIT 900	3,521	15.7
RIT Response	3,639	16.2
RIT 500	4,923	21.9
FireTech 32	5,242	23.3
EscapeTech	3,883	17.3
Marathon Lanyard	4,619	20.5
Y-Knot Lanyard	4,340	19.0

ACCESSORY / PRUSIK CORD

STRAIGHT PULL pg. 18

Diameter	MBS lbs.	MBS kN	Polyester MBS lbs.	Polyester MBS kN	CE EN 564
2mm	225	1.0	n/a	n/a	n/a
2.5mm Twaron	786	3.5	n/a	n/a	n/a
2.75mm	270	1.2	n/a	n/a	n/a
3mm	585	2.6	517	2.3	n/a
4mm	1,034	4.6	1,056	4.75	n/a
5mm	1,169	5.2	1,059	4.71	✓
6mm	1,978	8.8	n/a	n/a	✓
6mm PC*	4,789	21.3	n/a	n/a	✓
6mm XTec**	4,721	21.0	n/a	n/a	n/a
6mm TRC***	3,484	15.5	n/a	n/a	n/a
7mm	2,788	12.4	n/a	n/a	✓
8mm	3,934	17.5	n/a	n/a	✓
8mm Prusik	3,260	14.5	n/a	n/a	n/a
9mm	3,080	13.6	n/a	n/a	n/a

* PowerCord - Nylon sheath, Technora core
 ** XTec - 100% Technora
 *** TRC - Technora sheath, Nylon core

DYNAMIC ROPES

EVOLUTION pg. 21 - 22

Name	Diameter	Type	UIAA Falls	Impact Force	Static Elong.	Dynamic Elong.	Sheath Slippage	Weight (gr/M)	UIAA	CE
Velocity	9.8mm	①	6	8.8kN	8.6%	26.4%	0mm	62	✓	✓
Kosmos	10.2mm	①	8	8.8kN	7.6%	31.1%	0mm	67	✓	✓

FUSION pg. 22

Name	Diameter	Type	UIAA Falls	Impact Force	Static Elong.	Dynamic Elong.	Sheath Slippage	Weight (gr/M)	UIAA	CE
Nano	9.2mm	① ②	6	8.4kN	7.5%	32.0%	0mm	53	✓	✓
Ion ²	9.4mm	①	5	8.1kN	9.5%	35.7%	0mm	57	✓	✓

MARATHON pg. 22

Name	Diameter	Type	UIAA Falls	Impact Force	Static Elong.	Dynamic Elong.	Sheath Slippage	Weight (gr/M)	UIAA	CE
Pro	10.1mm	①	6	8.6kN	8.4%	35.3%	0mm	63	✓	✓
Sport	10.4mm	①	7	9.3kN	8.4%	29.4%	0mm	69	✓	✓
Ultra	10.7mm	①	8	8.6kN	9.0%	36.1%	0mm	70	✓	✓
Mega	11.0mm	①	9	8.7kN	9.4%	30.8%	15mm	79	✓	✓

TWO-ROPE SYSTEMS pg. 21 - 22

Name	Diameter	Type	UIAA Falls	Impact Force	Static Elong.	Dynamic Elong.	Sheath Slippage	Weight (gr/M)	UIAA	CE
Ice Thong	7.7mm	⊕	12	10.6kN	7.8%	28.1%	0mm	40	✓	✓
Duetto	8.4mm	②	6	6.5kN	11.0%	31.6%	0mm	45	✓	✓
Marathon Half	8.8mm	②	9	6.1kN	11.0%	32.8%	0mm	48	✓	✓
Nano	9.2mm	① ②	6	8.4kN	7.5%	32.0%	0mm	53	✓	✓

WEBBING

STRAIGHT WEBBING pg. 23

Diameter	MBS lbs.	MBS kN
1" Mil-Spec Tubular	4,000	17.8
1" Tech Tape Tubular	4,496	20.0
1 1/16" Tubular	3,000	13.3
1" Type 18 Flat	6,000	26.7
1" Type 9800 Flat	9,800	43.5

SEWN WEBBING SLINGS pg. 24

Diameter	MBS lbs.	MBS kN
1" Mil-Spec Tubular	6,129	27.3
1" TechTape Tubular	5,024	22.0
1" 9800 Flat	11,347	50.5
1 1/16" Tubular	5,961	26.5
1/2" Dyneema	5,024	22.0

DAISY CHAINS, RABBIT RUNNERS, CHAIN REACTOR pg. 24

Diameter	MBS lbs.	MBS kN
1" Mil-Spec Rabbit	3,928	17.5
1" Mil-Spec Daisy	3,618	16.1
1" 9800 Rabbit	8,993	40.0
1 1/16" Daisy	3,068	13.7
Chain Reactor	3,997	17.5
1/2" Dyneema Rabbit	3,277	14.6



STERLING ROPE