



STERLING

ROPE

TECHNICAL SPECS

Static Ropes

Dynamic Ropes

Fire Rescue

Water Rescue

Canyon

Sewn Cord

Sewn Webbing

Hardware

Accessory Cord

Static Ropes

Name	Diameter	MBS lbs	MBS kN	SWL - Safe working load	Elongation @ 300 lbs	Elongation @ 10%	lbs per 50ft	NFPA	CE
Super Static	9mm	5260	23.4	526	3.5	5.2	1.9	no	no
Super Static	10mm	5395	24	540	2.4	5	2.1	yes	yes
Super Static	11.5mm	6744	30	674	3.1	6	3	yes	yes
Super Static	13mm	9239	41.1	924	3	7.7	4	yes	yes
Super Static	15.5mm	10701	47.6	1070	0.8	4.3	5.2	yes	yes
Safety Pro	10.1mm	5395	24	540	2.4	5	2.1	yes	yes
Safety Pro	10.7mm	6115	27.2	612			2.4	no	yes
Safety Pro	11.2mm	7306	32.5	803			2.6	yes	yes
HTP	9mm	5193	23.1	519	1.6	2.6	2.1	yes	no
HTP	10mm	5980	26.6	598	1	1.7	2.7	yes	yes
HTP	11mm	7666	34.1	767	1.7	2.9	3.3	yes	yes
HTP	13mm	9082	40.4	908	0.8	2	4	yes	yes
HTP	16mm	11959	53.2	1196	0.9	1.8	6.3	yes	yes
TriTech 11	11.3mm	8329	37	832	1.9	2.8		no	no
Tech 11	11.2mm	8526	37.9	852	3.1	7.1		no	no

DYNAMIC ROPES

Name	Diameter	UIAA Rating	UIAA Falls	Static Impact Force	Static Elongation	Dynamic Elongation	Sheath Slippage	Weight	CE	UIAA
Marathon Half	8.8mm	half	9	6.1kN	11%	32.8%	0mm	48	yes	yes
Marathon Pro	10.1mm	single	6	8.6kN	8.4%	35.3%	0mm	63	yes	yes
Marathon Sport	10.4mm	single	7	9.3kN	8.4%	29.4%	0mm	69	yes	yes
Marathon Ultra	10.7mm	single	8	8.6kN	9%	36.1%	0mm	70	yes	yes
Marathon Mega	11.2mm	single	9	8.7kN	9.4%	30.8%	15mm	79	yes	yes
Slim Gym	10.1mm	single	6	8.6kN	8.4%	35.3%	0mm	63	yes	yes
Rock Gym	10.4mm	single	8	8.5kN	8.1%	33.2%	0mm	68	yes	yes
Big Gym	10.7mm	single	8	8.6kN	9%	36.1%	0mm	70	yes	yes
Evolution Ice Thong	7.7mm	double	12	10.6kN	7.8%	28.1%	0mm	40	yes	yes
Evolution Duetto	8.4mm	half	6	6.5kN	11%	31.6%	0mm	45	yes	yes
Evolution Velocity	9.8mm	single	6	8.8kN	8.5%	26.4%	0mm	62	yes	yes
Evolution Kosmos	10.2mm	single	8	8.8kN	7.6%	31.1%	0mm	67	yes	yes
Fusion Nano	9.2mm	single	6	8.5kN	7.5%	32.50%	0mm	53	yes	yes
Fusion Nano	9.2mm	half	>20	6.4kN	7.5%	32.7%	0mm	53	yes	yes
Fusion ION II	9.4mm	single	5	8.1kN	9.50%	35.7%	0mm	57	yes	yes
Fusion Photon	7.8mm	half	5	5.6kN	11.7%	35.3%	0mm	42	yes	yes
Fusion Photon	7.8mm	twin	16	8.7kN	6.5%	32.3%	0mm	42	yes	yes

Fire Rescue

Name	Diameter	MBS lbs	MBS kN	SWL - Safe working load	Elongation @ 300 lbs	Elongation @ 10%	lbs per 50ft	NFPA	CE
RIT 500	8mm	5485	24.4	549	3.4	6.1	1.4	yes	yes
FireTech32	7.5mm	5755	25.6	576	1.2	1.6	1.5	yes	yes
EscapeTech	7.5mm	3912	17.4	391	6.1	5.8	1.4	yes	yes
TSAFE	7.5mm	4024	17.9	402	4.7	6.9		yes	yes
SafeTech	8mm	4384	19.5	438	7	8.2	1.4	yes	no
Tactical Response	9.5mm	6092	27.1	609	3.8	6.8	2.1	yes	no
RIT 900	6.8mm	4136	18.4	414		4.4	0.9	no	no
RIT Response	9mm	6969	31	697	1.9	3.9	2.1	yes	yes
SearchLite	7.5mm	3012	13.4	301		2.4	1.3	no	no

Water Rescue

Name	Diameter	MBS lbs	MBS kN	SWL - Safe working load	Elongation @ 300 lbs	Elongation @ 10%	lbs per 50ft	NFPA	CE
Waterline	8mm	1596	7.1	160	7	n/a	1.1	no	no
Waterline	9.5mm	3417	15.2	342	4.2	n/a	1.7	yes	yes
Waterline	11.1mm	4406	19.6	441	2.6	n/a	2.2	no	no
Waterline	12.5mm	5755	25.6	576	1.8	n/a	2.6	no	no
Grabline	9.5mm	3282	14.6	328	4.2	n/a	1.6	yes	yes
Ultraline	6.5mm	2495	11.1	250	1.4	n/a	0.7	no	no
Ultraline	9.5mm	5260	23.4	526	1.2	n/a	1.9	yes	yes

Canyon Ropes

Name	Diameter	MBS lbs	MBS kN	SWL - Safe working load	Elongation @ 300 lbs	Elongation @ 10%	lbs per 50ft	NFPA	CE
CanyonTech	9.5mm	6092	27.1	609	3.8	6.8	2.1	no	no
C-IV	9mm	4653	20.7	465	4.2		1.6	no	no

Sewn Cord

Name	MBS kN	MBS lbs	Name	MBS kN	MBS lbs
6mm Auto Block	12.5	2810	RIT 500	14	3147
6mm Aztec Elite Ratchet	12.5	2810	RIT 8 Bound Loop Prusik	18.5	4159
6mm AZ Travel Restraint	12.5	2810	RIT Eye & Eye (basket configuration)	24.1	5418
6mm Purcell	12.5	2810	RIT Ring Prussik	18.5	4159
6mm TRC SE	14	3147	9mm Aztek Foot End Set Of Fours	13	2922
6mm Xtech Power Cord SE	14	3147	9mm Educational Prussik	23	5170
TVac Sewn Eye	13	2922	9mm HTP Sewn Eye	22.5	5058
RIT 900 Sewn Eye	13.5	3035	9mm Super Static Sewn Eye	18.5	4159
Thimble Prussik	14	3147	Aztek 9mm Edge Restraint	13	2922
6.8mm Hollow Block	14	3147	RIT Response Sewn Eye	14	3147
7mm 1 tack Sewn Eye	14	3147	RIT 9 Eye & Eye (basket configuration)	24.1	5418
7mm Bearer Tie In	21.5	4833	RIT 9 Bound Loop Prussik	21	4720
7mm Head End Litter Spider	21.5	4833			
7mm Prusik	21.5	4833			
7mm Sewn Cordlette	21.5	4833			
7.5mm Escape Tech	14	3147			
7.5mm Firetech	14	3147			
8mm Aztec Elite Edge Restraint	17.5	3934			
8mm Bound Loop Prusik	24.1	5418			
8mm PER Sewn Eye	14	3147			

Sewn Cord

Name	MBS kN	MBS lbs	Name	MBS kN	MBS lbs
3/8 HTP Sewn Eye	24.1	5418	10.1mm Y-Knot Lanyard	19	4271
3/8 Super Static Sewn Eye	24	5395	10.7mm Marathon Lanyard	20	4496
7/16 HTP Single Tack Sewn Eye	29	6519	11.2mm Mega Sewn Eye	22	4946
7/16 HTP Sewn Eye	29	6519			
Ring Sling	24.1	5418			
7/16 Super Static Sewn Eye	25.5	5732			
1/2 HTP Sewn Eye	34.5	7756			
1/2 Super Static Sewn Eye	35	7868			
5/8 Super Static Sewn Eye	40.5	9104			
10mm Safety Pro Sewn Eye	22	4946			
10.5mm Safety Pro Sewn Eye	22	4946			
11mm Safety Pro Sewn Eye	24.1	5418			
SafetyPro Flipline	24.1	5418			
Tritech11 Flipline	24.1	5418			
Tech11 Flipline	24.1	5418			

Sewn Webbing

Name	MBS kN	MBS lbs
10mm Dyneema Dogbone	23	5170
10mm Dyneema Slings	23	5170
12mm Dyneema Dogbones	20	4496
12mm Dyneema ERI Zip Suspension	14.5	3260
12mm Dyneema Rabbit Runners	14.5	3260
12mm Dyneema Slings	23	5170
11/16 Slings	23	5170
11/16 Chain Reactor	14	3147
11/16 Daisy Chains	13	2922
3/4 Dogbones	23	5170
3/4 Zip Link	23	5170
Zipline Tether	14	3147
Mil-Spec Daisy Chains	15.5	3484
Mil-Spec Slings	23	5170
Tech Tape Slings	23	5170
Flat Nylon Rabbit Runner	36	8093
Flat Nylon Slings	45	10116
Tech Extension Lanyard	14	3147
VariQuick Draw	23	5170

HARDWARE

Name	Major Axis	Minor Axis	Open Gate	End-to-End MBS	Sheave MBS	Max Rope Diameter	NFPA	Class	CE
Eagle SL	25	7	7				no	n/a	yes
Eagle AL	25	7	7				no	n/a	yes
Falcon SL	25	7	7				no	n/a	yes
Falcon AL	25	7	7				no	n/a	yes
Hawk SL	28	7	7				no	n/a	yes
Hawk AL	28	7	7				no	n/a	yes
Osprey SL	23	7	6				no	n/a	yes
Osprey AL	23	7	6				no	n/a	yes
SR Steel AL	45	16	18				yes	G	yes
SR Steel SL	45	15	18				yes	G	no
Safe-DTL	28	11	9				yes	L	no
Safe-DAL	28	11	9				yes	L	no
SR MSP				17	8.5	11	no	n/a	yes
SR MDP				22	5.5	11	no	n/a	yes
SR PMP				36	18	13	yes	G	no
SR PMP2				44	11	13	yes	G	no
SR RP				32	16	13	yes	L	no
SR Swivel	36						yes	G	no
SR Rigging Plate	36						yes	G	no
F4	13.5						yes	E	no
SR 8	22						no	n/a	no

Accessory Cord

Diameter	Yarn Type	MBS (lbs)	MBS (kN)	CE
2mm	nylon	225	1	
2.75mm	nylon	270	1.2	
3mm	nylon	472	2.1	
4mm	nylon	1034	4.6	
5mm	nylon	1169	5.2	yes
6mm	nylon	1978	8.8	yes
7mm	nylon	2788	12.4	yes
8mm	nylon	3934	17.5	yes
8mm	prusik	3462	15.4	
9mm	nylon	3102	13.8	
4mm	polyester	1057	4.7	
5mm	polyester	1102	4.9	
2.5mm	twaron	787	3.5	
6mm	PowerCord	4429	19.7	yes
6mm	XTEC	4721	21	
6mm	TRC	3484	15.5	
6.8mm	TVAC	3619	16.1	