Lifelines, Rescue & Technical

Cancord INC.
QUALITY ROPE SINCE 1880

Rope & Accessory Product Catalogue

ABOUT CANCORD

Lifelines, Rescue Ropes & Other Technical Products

Cancord manufactures a full range of high performance life safety lines and ropes for use in fall protection, including kernmantle ropes, Polysteel™ safety lines, and nylon lanyards. Our line of technical ropes has been designed to maximize strength and performance through the use of innovative, high strength fibers manufactured into proven constructions. Our lifelines undergo rigorous testing and ongoing product evaluation to ensure you always receive the highest quality product available.

We also manufacture custom products to meet your unique requirements. We encourage you to contact us with your specific needs. Custom labelling is also available where required.

Contact Cancord

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POLYSTEEL™ CSA Certified Safety Lines

Our Polysteel™ safety lines are manufactured to CSA Z259.2.5. The standard configuration includes a thimble and spliced eye with either a carabiner or snap hook attached at one end and a back splice at the other end. The safety lines can be supplied with alternate CSA Certified hooks attached where required. Please refer to pages 14 - 16 for available hooks and other accessory products.

- 9,000 lb minimum breaking strength
- 16mm (5/8”) diameter
- Good UV resistance
- High strength
- Light weight
- Easy handling

* Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 17 for additional information. Other lengths and configurations are available upon request. Please inquire.

Non-CSA Certified Safety Rope is also available on bulk coils. Please refer to page 11 for additional information.

Part #	Colour	Length	Hardware
57-316-00-0025-0049	Light Blue	25 ft	3/4” snap hook
57-316-20-0025-0049	Black	25 ft	3/4” snap hook
57-316-00-0025-0107	Light Blue	25 ft	5/8” carabiner
57-316-00-0025-0107	Black	25 ft	5/8” carabiner
57-316-00-0050-0049	Light Blue	50 ft	3/4” snap hook
57-316-20-0050-0049	Black	50 ft	3/4” snap hook
57-316-00-0050-0107	Light Blue	50 ft	5/8” carabiner
57-316-20-0050-0107	Black	50 ft	5/8” carabiner
57-316-00-0100-0049	Light Blue	100 ft	3/4” snap hook
57-316-20-0100-0049	Black	100 ft	3/4” snap hook
57-316-00-0100-0107	Light Blue	100 ft	5/8” carabiner
57-316-20-0100-0107	Black	100 ft	5/8” carabiner
57-316-00-0150-0049	Light Blue	150 ft	3/4” snap hook
57-316-20-0150-0049	Black	150 ft	3/4” snap hook
57-316-00-0150-0107	Light Blue	150 ft	5/8” carabiner
57-316-20-0150-0107	Black	150 ft	5/8” carabiner
57-316-00-0200-0049	Light Blue	200 ft	3/4” snap hook
57-316-20-0200-0049	Black	200 ft	3/4” snap hook
57-316-00-0200-0107	Light Blue	200 ft	5/8” carabiner
57-316-20-0200-0107	Black	200 ft	5/8” carabiner
57-316-00-0250-0049	Light Blue	250 ft	3/4” snap hook
57-316-20-0250-0049	Black	250 ft	3/4” snap hook
57-316-00-0250-0107	Light Blue	250 ft	5/8” carabiner
57-316-20-0250-0107	Black	250 ft	5/8” carabiner
57-316-00-0300-0049	Light Blue	300 ft	3/4” snap hook
57-316-20-0300-0049	Black	300 ft	3/4” snap hook
57-316-00-0300-0107	Light Blue	300 ft	5/8” carabiner
57-316-20-0300-0107	Black	300 ft	5/8” carabiner
57-316-00-0350-0049	Light Blue	350 ft	3/4” snap hook
57-316-20-0350-0049	Black	350 ft	3/4” snap hook
57-316-00-0350-0107	Light Blue	350 ft	5/8” carabiner
57-316-20-0350-0107	Black	350 ft	5/8” carabiner
57-316-00-0400-0049	Light Blue	400 ft	3/4” snap hook
57-316-20-0400-0049	Black	400 ft	3/4” snap hook
57-316-00-0400-0107	Light Blue	400 ft	5/8” carabiner
57-316-20-0400-0107	Black	400 ft	5/8” carabiner
57-316-00-0500-0049	Light Blue	500 ft	3/4” snap hook
57-316-20-0500-0049	Black	500 ft	3/4” snap hook
57-316-00-0500-0107	Light Blue	500 ft	5/8” carabiner
57-316-20-0500-0107	Black	500 ft	5/8” carabiner

CSA Certified Kernmantle Vertical Lifelines

Kernmantle ropes are manufactured with the load bearing fibers in the core, surrounded by a durable sheath to protect the inner core fibers from abrasion, dirt and harmful UV rays. Cancord can supply a CSA Certified Static Kernmantle Lifeline to meet your specific requirements. Listed below are some of the more common lengths and hardware configurations we sell. However, we can custom manufacture to your exact length and hardware requirements. Our turnaround time on custom orders is extremely fast – often same day or next day. Please refer to pages 14 - 16 for available hooks and connectors.

Part #	Diameter	Colour	Flex	Length	Description
10-311-20-140-0150-0167	7/16in / 11mm	White/Green	Supple	150ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-311-20-140-0200-0167	7/16in / 11mm	White/Green	Supple	200ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-311-20-140-0250-0167	7/16in / 11mm	White/Green	Supple	250ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-311-20-140-0300-0167	7/16in / 11mm	White/Green	Supple	330ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-311-20-140-0350-0167	7/16in / 11mm	White/Green	Supple	350ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-311-20-140-0400-0167	7/16in / 11mm	White/Green	Supple	400ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-311-20-140-0450-0167	7/16in / 11mm	White/Green	Supple	450ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-311-20-140-0500-0167	7/16in / 11mm	White/Green	Supple	500ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-313-20-150-0150-0167	1/2in / 13mm	White/Red	Supple	150ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-313-20-150-0200-0167	1/2in / 13mm	White/Red	Supple	200ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-313-20-150-0250-0167	1/2in / 13mm	White/Red	Supple	250ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-313-20-150-0300-0167	1/2in / 13mm	White/Red	Supple	300ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-313-20-150-0350-0167	1/2in / 13mm	White/Red	Supple	350ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-313-20-150-0400-0167	1/2in / 13mm	White/Red	Supple	400ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-313-20-150-0450-0167	1/2in / 13mm	White/Red	Supple	450ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
10-313-20-150-0500-0167	1/2in / 13mm	White/Red	Supple	500ft	Swaged 2 ends; 1 x CSA Certified Carabiner attached
09-316-21-100-0020-0026	5/8in / 16mm	White	Stiff	20ft	Swaged 1 end c/w CSA Certified Carabiner; Stop button
09-316-21-100-0040-0026	5/8in / 16mm	White	Stiff	40ft	Swaged 1 end c/w CSA Certified Carabiner; Stop button
09-316-21-100-0060-0026	5/8in / 16mm	White	Stiff	60ft	Swaged 1 end c/w CSA Certified Carabiner; Stop button
09-316-21-100-0080-0026	5/8in / 16mm	White	Stiff	80ft	Swaged 1 end c/w CSA Certified Carabiner; Stop button
09-316-21-100-0100-0026	5/8in / 16mm	White	Stiff	100ft	Swaged 1 end c/w CSA Certified Carabiner; Stop button

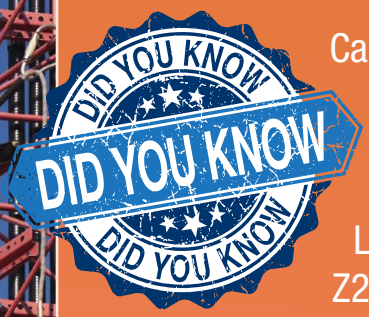
* Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 17 for additional information.

Restraint Lanyards

Our fall restraint lanyards are designed to limit the distance a worker can move from an anchor point towards the edge of a structure. They are intended to preventing a fall, as opposed to arresting a fall. They are never to be used as a lifeline if there is any risk of falling.

Part #	Diameter	Length	Description
58-316-21-0004-0188	5/8in / 16mm	4ft (1.22m)	2 x 3/4" snap hooks (1 body, 1 anchor)
58-316-21-0004-0189	5/8in / 16mm	4ft (1.22m)	3/4" snap hook (body); 1-3/4" form hook (anchor)
58-316-21-0004-0190	5/8in / 16mm	4ft (1.22m)	3/4" snap hook (body); 2-1/2" form hook (anchor)
58-316-21-0006-0188	5/8in / 16mm	6ft (1.83m)	2 x 3/4" snap hooks (1 body, 1 anchor)
58-316-21-0006-0189	5/8in / 16mm	6ft (1.83m)	3/4" snap hook (body); 1-3/4" form hook (anchor)
58-316-21-0006-0190	5/8in / 16mm	6ft (1.83m)	3/4" snap hook (body); 2-1/2" form hook (anchor)
58-316-21-0008-0188	5/8in / 16mm	8ft (2.44m)	2 x 3/4" snap hooks (1 body, 1 anchor)
58-316-21-0008-0189	5/8in / 16mm	8ft (2.44m)	3/4" snap hook (body); 1-3/4" form hook (anchor)
58-316-21-0008-0190	5/8in / 16mm	8ft (2.44m)	3/4" snap hook (body); 2-1/2" form hook (anchor)

* Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 17 for additional information.



Cancord's commitment to technical excellence goes far beyond our manufacturing facility. Cancord Co-owner and Vice President Rob Ludwig is a member of the CSA Z259 Fall Protection Committee. In 2011 he was recognized by CSA for 20 years of significant contributions towards CSA Standards Development.

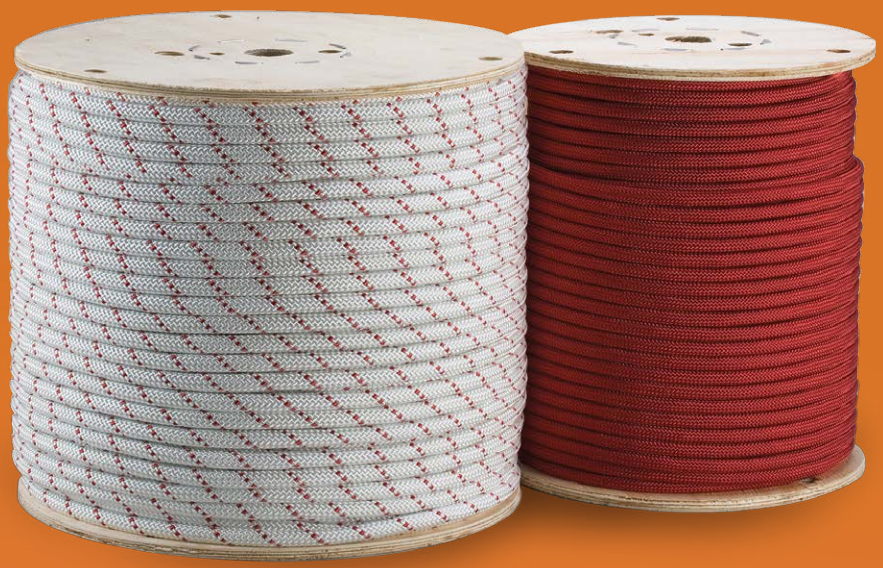
NFPA 1983 Static Kernmantle Lifeline

Kernmantle ropes are the ideal choice for life safety and rescue applications. These ropes are manufactured with the load bearing fibers in the core, surrounded by a durable sheath designed to protect the core fibers from abrasion, dirt and harmful UV rays. Our Kernmantle ropes are designed for performance with exceptional strength and durability.

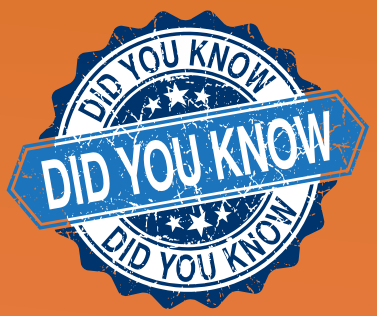
All of our Kernmantle ropes can be supplied with swaged terminations, and hardware attached.

Please refer to pages 14 - 16 for available hooks and carabiners.

Our Kernmantle ropes are NFPA 1983 and CSA Z259.2.5 certified as indicated below.



Part #	Diameter	Colour	Certification	MBS*
10-310-20-150	3/8in / 10mm	White/Red	NFPA 1983 Light Use	6,000 lb
10-310-20-200	3/8in / 10mm	Black	NFPA 1983 Light Use	6,000 lb
10-310-20-500	3/8in / 10mm	Red	NFPA 1983 Light Use	6,000 lb
10-310-20-300	3/8in / 10mm	Yellow	NFPA 1983 Light Use	6,000 lb
10-311-20-140	7/16in / 11mm	White/Green	NFPA 1983 Light Use	6,750 lb
10-311-20-200	7/16in / 11mm	Black	NFPA 1983 Light Use	6,750 lb
10-311-20-600	7/16in / 11mm	Blue	NFPA 1983 Light Use	6,750 lb
10-311-20-700	7/16in / 11mm	Orange	NFPA 1983 Light Use	6,750 lb
10-311-20-500	7/16in / 11mm	Red	NFPA 1983 Light Use	6,750 lb
10-313-20-150	1/2in / 13mm	White/Red	NFPA 1983 General Use	9,000 lb
10-313-20-200	1/2in / 13mm	Black	NFPA 1983 General Use	9,000 lb
10-313-20-600	1/2in / 13mm	Blue	NFPA 1983 General Use	9,000 lb
10-313-20-400	1/2in / 13mm	Green	NFPA 1983 General Use	9,000 lb
10-313-20-700	1/2in / 13mm	Orange	NFPA 1983 General Use	9,000 lb
10-313-20-500	1/2in / 13mm	Red	NFPA 1983 General Use	9,000 lb
10-313-20-300	1/2in / 13mm	Yellow	NFPA 1983 General Use	9,000 lb
10-316-20-120	5/8in / 16mm	White/Black	NFPA 1983 General Use	12,000 lb
10-316-20-200	5/8in / 16mm	Black	NFPA 1983 General Use	11,250 lb
10-316-20-500	5/8in / 16mm	Black	NFPA 1983 General Use	11,250 lb



As a long-serving fire fighter, Cancord owner Rob Ludwig brought hands on experience to the development of our line of NFPA Certified Rescue Ropes.

* Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 17 for additional information.

NFPA 1983 Personal Escape Rope

Designed for use in “bail-out” situations, our personal escape rope has been designed to balance strength, heat resistance, abrasion resistance and handling. It is a kernmantle construction, with a Technora® skin to protect the load bearing core fibers of the rope.

- Light weight
- Heat resistant (skin to 500ºC, core to 245ºC)
- Durable
- High strength
- Good handling and knot tying characteristics
- Technora® skin over polyester core

Part #	Diameter	Colour	Certification	MBS*
10-608-21-800	5/16in / 8.3mm	Gold	NFPA 1983	3,500 lb

* Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 17 for additional information.

Extreme Static Kernmantle Ropes

Manufactured from continuous filament, high tenacity polyester for applications where extra low elongation is required.

Part #	Diameter	Colour	MBS*
09-311-21-100	7/16in / 11mm	White	7,000 lb
09-313-21-100	1/2in / 13mm	White	9,225 lb
09-316-21-100	5/8in / 16mm	White	11,250 lb

Accessory/Prusik Cord

Our accessory cords have been developed based on extensive feedback from the field, and are designed to complement our kernmantle ropes. Our accessory cord is suitable for rescue applications. The 8mm size is recommended for use with our 11mm and 13mm static kernmantle rope in prusik hitches. The smaller sizes are suitable for sport and personal use.

- Excellent flexibility
- Maintains round shape through use
- Heavy sheath
- Good UV resistance

Part #	Diameter	Colour	MBS*
06-303-21-100	1/8in / 3mm	White	450 lb
06-303-21-200	1/8in / 3mm	Black	450 lb
06-303-21-600	1/8in / 3mm	Blue	450 lb
06-303-21-400	1/8in / 3mm	Green	450 lb
06-303-21-500	1/8in / 3mm	Red	450 lb
06-303-21-900	1/8in / 3mm	Olive Drab	450 lb
06-303-21-700	1/8in / 3mm	Safety Orange	450 lb
06-303-21-300	1/8in / 3mm	Yellow	450 lb
06-306-21-200	1/4in / 6mm	Black	2,200 lb
06-306-21-600	1/4in / 6mm	Blue	2,200 lb
06-306-21-400	1/4in / 6mm	Green	2,200 lb
06-306-21-500	1/4in / 6mm	Red	2,200 lb
06-306-21-900	1/4in / 6mm	Olive Drab	2,200 lb
06-306-21-700	1/4in / 6mm	Safety Orange	2,200 lb
06-306-21-100	1/4in / 6mm	White	2,200 lb
06-306-21-300	1/4in / 6mm	Yellow	2,200 lb
06-308-21-200	5/16in / 8mm	Black	3,000 lb
06-308-21-600	5/16in / 8mm	Blue	3,000 lb
06-308-21-400	5/16in / 8mm	Green	3,000 lb
06-308-21-900	5/16in / 8mm	Olive Drab	3,000 lb
06-308-21-700	5/16in / 8mm	Safety Orange	3,000 lb
06-308-21-500	5/16in / 8mm	Red	3,000 lb
06-308-21-100	5/16in / 8mm	White	3,000 lb
06-308-21-300	5/16in / 8mm	Yellow	3,000 lb
06-309-21-200	11/32in / 9mm	Black	3,700 lb
06-309-21-600	11/32in / 9mm	Blue	3,700 lb
06-309-21-400	11/32in / 9mm	Green	3,700 lb
06-309-21-900	11/32in / 9mm	Olive Drab	3,700 lb
06-309-21-700	11/32in / 9mm	Safety Orange	3,700 lb
06-309-21-500	11/32in / 9mm	Red	3,700 lb
06-309-21-100	11/32in / 9mm	White	3,700 lb
06-309-21-300	11/32in / 9mm	Yellow	3,700 lb

Note that when using a prusik cord, great care must be taken to match the cord with the host rope, and to test its effectiveness before use. Experience has shown wide variation in the performance of prusik hitches under different applications and conditions. The holding power of hitches may be greater than the strength of the cord itself, but back up hitches should be used wherever possible. We recommend 3 wrap (6 coil) hitches.

* Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 17 for additional information.

Water Rescue Rope

Our water rescue ropes are a kernmantle style construction. They have a durable nylon skin braided over a uniquely designed polypropylene core for floatation.

- High visibility safety orange and yellow
- Floats just below the surface of the water
- Flexible for easy knot tying
- Available with swaged terminations if required (note the swaged terminations reduce the floatability and strength of the rope)

Part #	Diameter	Colour	MBS*
07-310-21-730	3/8in / 10mm	Orange/Yellow	4,000 lb
07-310-21-370	3/8in / 10mm	Yellow/Orange	4,000 lb
07-313-21-600	1/2in / 13mm	Blue	6,000 lb
07-313-21-730	1/2in / 13mm	Orange/Yellow	6,000 lb
07-313-21-500	1/2in / 13mm	Red	6,000 lb
07-313-21-370	1/2in / 13mm	Yellow/Orange	6,000 lb

* Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 17 for additional information.

SPECIALTY LIFELINES & ACCESSORY ROPES

THROW-RIGHT Water Throw Rope

Our THROW-RIGHT water throw ropes are a kernmantle style construction. They are manufactured from 100% high tenacity, multifilament polypropylene yarn.

- High visibility yellow and red
- Floats on the surface of the water
- Flexible for easy knot tying

Part #	Diameter	Colour	MBS*
07-308-21-350	5/16 in / 8 mm	Yellow/Red	2,000 lb

* Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 17 for additional information.

POLYSTEEL™ Safety Line - Bulk Rope

Part #	Diameter	Length	MBS*	Weight/Coil
57-316-12	5/8in / 16mm	1200 ft coil	9,000 lb	105 lb

* Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 17 for additional information.

CONTROLLED DESCENT LINES

Suspension Lines

Our suspension lines are manufactured from premium quality, high tenacity nylon that has been treated to reduce water absorption and internal friction. They are designed for use in certain control descent devices for the window cleaning trade and similar applications where a top quality suspension line is required. They are equipped with swaged eye terminations and are marked and dated as required. Our suspension lines can be supplied with hooks attached where required. Please refer to page 14 - 16 for available hooks and other accessory products.

- Good UV resistance
- Marked and dated as required

Part #	Diameter	Length	MBS*	Weight/Reel
22-160-01	1/2in / 13mm	100 ft	6,000 lb	7 lb
22-160-53	1/2in / 13mm	150 ft	6,000 lb	10 lb
22-160-54	1/2in / 13mm	200 ft	6,000 lb	12 lb
22-160-55	1/2in / 13mm	250 ft	6,000 lb	15 lb
22-160-56	1/2in / 13mm	300 ft	6,000 lb	18 lb
22-160-57	1/2in / 13mm	350 ft	6,000 lb	21 lb
22-160-58	1/2in / 13mm	400 ft	6,000 lb	24 lb
22-160-59	1/2in / 13mm	500 ft	6,000 lb	30 lb
22-160-60	1/2in / 13mm	600 ft	6,000 lb	36 lb

* Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 17 for additional information.

Other lengths and configurations are available upon request. Please inquire.

RESCUE ROPE ACCESSORY PRODUCTS

Rope Bags

Our rope bags are manufactured for exceptional quality and performance.

- Body of heavy cordura for excellent durability
- Rugged pack cloth top enables easy closure when pulling on the drawstring
- Molded backpack style shoulder straps for superior comfort
- Top carrying handles help the bag stay open while loading the rope
- Rubber carrying handle on the side of the bag for greater comfort

Part #	Product	Capacity (1/2 in Rope – sold separately)
14-302-11-500	Small Rope Bag – Red	150 – 200 ft
14-304-11-300	Medium Rope Bag – Yellow	300 – 400 ft
14-306-11-700	Large Rope Bag – Orange	500 – 650 ft

Water Throw Bags

- Designed for easy payout to maximize throwing distance
- Durable nylon fabric with a flotation insert
- High visibility orange
- Quick release buckle on hand strap

Part #	Product	Capacity (1/2 in Rope – sold separately)
14-050-11	Water Throw Bag – Orange	50 ft of 8 mm rope
14-075-11	Water Throw Bag – Orange	75 ft of 8 or 10 mm rope

Edge Protectors

Edge protectors help protect against abrasion and cutting where the rope is in contact with corners and edges. They are a key factor in rope safety and prolonging the life of a rope.

- Constructed from multiple layers of heavy canvas fabric to protect the rope inside
- 24” length
- Designed to wrap around the rope and fasten with Velcro strips
- Complete with a cord and clip for tying the edge protector to the rope or anchor point

Part #	Product
14-024-10	Edge Protector - Black

SELF LOCKING SNAP HOOKS

3/4” Self Locking Snap Hook

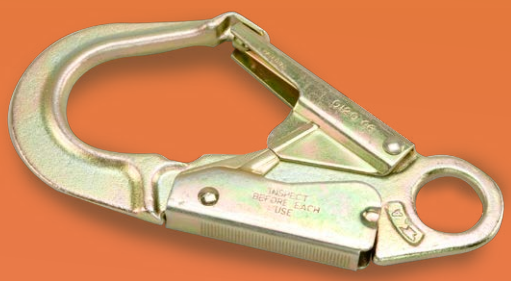
Part # 14-350-06

- Forged steel, heat treated
- 100% proof loaded to 3,600lb (16kN)
- Minimum breaking load 5,000lb (23kN)
- Meets: • ANSI Z359.12 • CSA Z259.12 • EN 362
- Net weight – 13.7oz (390g)
- 5 21/64” (147mm) length end to end

3/4” Swivel Snap Hook

Part # 14-465-00

- Forged steel, heat treated
- 100% proof loaded to 3,600lb (16kN)
- Minimum breaking load 5,000lb (23kN)
- Meets: • ANSI Z359.12 • CSA Z259.12 • EN 362
- Net weight – 17.2oz (488g)
- 7 7/32” (196mm) length end to end



1 3/4” Self Locking Rebar Snap Hook

Part # 14-538-66

- Forged steel, heat treated
- 100% proof loaded to 3,600lb (16kN)
- Minimum breaking load 5,000lb (23kN)
- Meets: • ANSI Z359.12 • CSA Z259.12 • EN 362
- Net weight – 19.1oz (543g)
- 7 55/64” (200mm) length end to end

2 1/2” Self Locking Rebar Snap Hook

Part #14-539-46

- Forged steel, heat treated
- 100% proof loaded to 3,600lb (16kN)
- Minimum breaking load 5,000lb (23kN)
- Meets: • ANSI Z359.12 • CSA Z259.12 • EN 362
- Net weight – 27.8oz (788g)
- 9 19/32” (244mm) length end to end

CARABINERS

5/8” Self Locking Carabiner

Part # 14-252-00

- Alloy steel, heat treated
- 100% proof loaded to 3,600lb (16kN)
- 3,600lb gate strength
- Minimum breaking load 5,000lb (23kN)
- Meets: • ANSI Z359.12 • CSA Z259.12 • EN 362
- Net weight – 8.0oz (226g)
- 4 13/64” (107mm) length end to end

“Big Dan” Twist Lock Carabiner

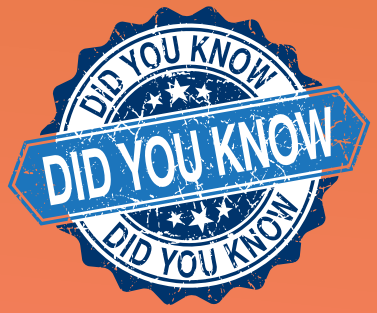
Part # 14-434-00

- Alloy steel, heat treated
- 100% proof loaded to 3,600lb (16kN)
- 3,600lb gate strength
- Minimum breaking load 5,000lb (23kN)
- Meets: • ANSI Z359.12 • CSA Z259.12 • EN 362
- Net weight – 12.9oz (369g)
- 4 3/32” (134mm) length end to end

2” Self Locking Carabiner

Part # 14-734-00

- Alloy steel, heat treated
- 100% proof loaded to 3,600lb (16kN)
- 3,600lb gate strength
- Minimum breaking load 5,000lb (23kN)
- Meets: • ANSI Z359.12 • CSA Z259.12 • EN 362
- Net weight – 27.3oz (774g)
- 8 17/32” (217mm) length end to end



Cancord supplied its static kernmantle lifelines to the British Royal Marines Commandos and the Canadian School of Rescue Training for a record breaking 1,465’ climb on the outside of the CN Tower.

Ovalock Kwiklock Captive Eye Carabiner

Part # 14-433-30

- Alloy steel, heat treated
- 100% proof loaded to 3,600lb (16kN)
- 3,600lb gate strength
- Minimum breaking load 5,000lb (23kN)
- Meets: • ANSI Z359.12 • CSA Z259.12 • EN 362
- Net weight – 10.7oz (305g)
- 5 17/64” (134mm) length end to end

DESCENDERS

Rescue Figure 8

Part #14-435-00

- Forged aluminum ally
- For rope diameters 3/8” (10mm) - 5/8” (16mm)
- Minimum breaking load 9,000lb (40kN)
- Polished finish
- 270g weight
- 6 11/16” (170mm) length
- 5 31/32” (152mm) width

IMPORTANT PRECAUTIONS

Rated breaking strength is the optimum strength, achieved under laboratory conditions, in accordance with prescribed test procedures, on new rope, pulling at a slow, steady rate in a straight line. Real life applications normally involve many different types of forces and factors which will cause the rope to fail at much reduced loads. Accordingly, the safe working load of any new rope is much lower than its nominal strength. Blanket safe working load (SWL) recommendations cannot be made for any line because the SWL must always be calculated based on the application, conditions of use, and potential danger to personnel among other considerations. It is recommended that the end user establish the SWL base on best practices established by the end user's industry, professional judgment, and personal experience in combination with a thorough assessment of all risks. In life threatening and other critical applications, the safe working load should not exceed 1/15 of the nominal strength.

Knots reduce the strength of ropes by as much as 50% by causing the fibers to become distorted and cut into each other. Many of our ropes can be fitted with swaged terminations which are much more efficient than knots, losing only minimal strength.

Ropes should be kept clean. Dirt and grit inside the rope may cause the inner fibers to be cut or abraded, resulting in a loss of strength. Rope should be washed with a mild detergent in luke warm water and rinsed well. Air dry and avoid hot water.

Running ropes over edges such as roof tops or cliff edges causes abrasion to occur rapidly, and causes a cutting action in the rope. Rope must always be carefully protected at these points. Similarly, protection is required if the rope is being wrapped around angle iron or other structures which will cause the rope to suffer abrasion or cutting action. Ropes should be removed from service when deterioration from abrasion becomes excessive. Minor abrasion of the cover of kernmantle ropes will not itself result in a loss of strength, although it may indicate that the inner fibers have been damaged. Where abrasion has penetrated the protective cover and exposed the core, the rope is unsafe for any use, and must be discarded.

Shock loads such as those experienced in fall arrest, and or other conditions where the load is applied very quickly, cause damage to the rope. Ropes which have been subjected to this type of force must be removed from service, or downgraded to less critical uses.

Nylon ropes will lose about 10% of their strength when wet and will elongate considerably more. They will regain their strength when properly dried.

Ropes will deteriorate from abrasion, excessive heat buildup, exposure to ultraviolet rays from the sun or from fluorescent lights, and exposure to certain chemicals and their fumes. Dirt will embed itself in the rope and cause the fibers to cut or abrade. Ropes should be stored and used, so as to minimize the effect of these and other damaging influences. Ropes should be checked frequently, and before critical use, for signs of deterioration.

Safe use of ropes requires skill, training, and practice. It is the user's obligation to be qualified to use the ropes & know their limitations. Cancord Inc. guarantees the material and manufacturing of the ropes but accepts no liability for failure due to misuse of any kind, or for use by persons with inadequate training. It is very difficult to judge the safety of used ropes, so it is important to inspect ropes very carefully, and to replace them if there is doubt about their condition.

ADDITIONAL RESOURCES

ROPE FIBERS

Cotton

Natural Fibre | Chars at 148˚C | UV Resistance: Very Good

Chemical Resistance
- Degraded by acids in high concentration or at high temperatures
- Resistant to alkalis
- Degraded by organic solvents and sea water

Advantages
- Exceptional Handling

Disadvantages
- Susceptible to deterioration from moisture, rot & mildew
- Strength can be dramatically affected by basic environmental variables such as the level of humidity

Manila

Natural Fibre | Chars at 148˚C | UV Resistance: Very Good

Chemical Resistance
- Degraded by acids in high concentration or high temperature
- Degraded by alkalis
- Resistant to organic solvents

Advantages
- Very good creep resistance (gradual elongation under load)

Disadvantages
- Poor microbial resistance
- Can be rough to handle

Polypropylene

Synthetic | Melts at 165˚C | UV Resistance: Fair

Chemical Resistance
- Resistant to acids
- Resistant to alkalis
- Resistant to organic solvents, soluble in chlorinated hydrocarbons

Advantages
- Light weight
- Inexpensive
- Unaffected by water
- Excellent microbial resistance

Disadvantages
- Low strength relative to other synthetic fibers
- Susceptible to creep (gradual elongation under load)

Polysteel

Synthetic | Melts at 140˚C | UV Resistance: Fair

Chemical Resistance
- Resistant to acids
- Resistant to alkalis
- Resistant to organic solvents, soluble in chlorinated hydrocarbons

Advantages
- Light weight
- Good handling characteristics
- Unaffected by water
- Higher strength than polypropylene
- Excellent microbial resistance

Disadvantages
- Susceptible to creep (gradual elongation under load)

ADDITIONAL RESOURCES

Nylon

Synthetic

Nylon 6 melts at 218˚C
Nylon 6.6 melts at 258˚C

UV Resistance: Good

Chemical Resistance
- Resistant to weak acids
- Degraded by concentrated, strong acids
- Unaffected by most alkalis at room temperature
- Resistant to organic solvents, soluble in phenols and formic acid

Advantages
- Good strength
- Excellent microbial resistance

Disadvantages
- Susceptible to creep (gradual elongation under load)
- Abrasion resistance of wet nylon is generally poor
- Minor loss of strength when wet; strength is re-gained once rope dries

Polyester

Synthetic

Melts at 254˚C

UV Resistance: Very Good

Chemical Resistance
- Resistant to mineral acids
- Degraded by strong sulphuric acids
- Degraded by strong alkalis at high temperature
- Resistant to organic solvents, soluble in phenols

Advantages
- Excellent microbial resistance
- Good strength & durability
- Unaffected by water

Disadvantages
- None

Kevlar®

Synthetic

Decomposes at 500˚C

UV Resistance: Poor

Chemical Resistance
- Resistant to weak acids, bases, water & salt water
- Degraded by strong acids & bases in high concentration or high temperature

Advantages
- Exceptional strength
- Exceptional heat resistance

Disadvantages
- Poor shock loading qualities
- Poor abrasion resistance
- Expensive

Dyneema®

Synthetic

Melts at 145˚C

UV Resistance: Fair

Chemical Resistance
- Acid & alkali resistant.
- Resistant to bleaches, other oxidizing agents and most solvents.
- Unaffected by sea water

Advantages
- Good strength
- Unaffected by water

Disadvantages
- Susceptible to creep (gradual elongation under load)
- Expensive

Technora®

Synthetic

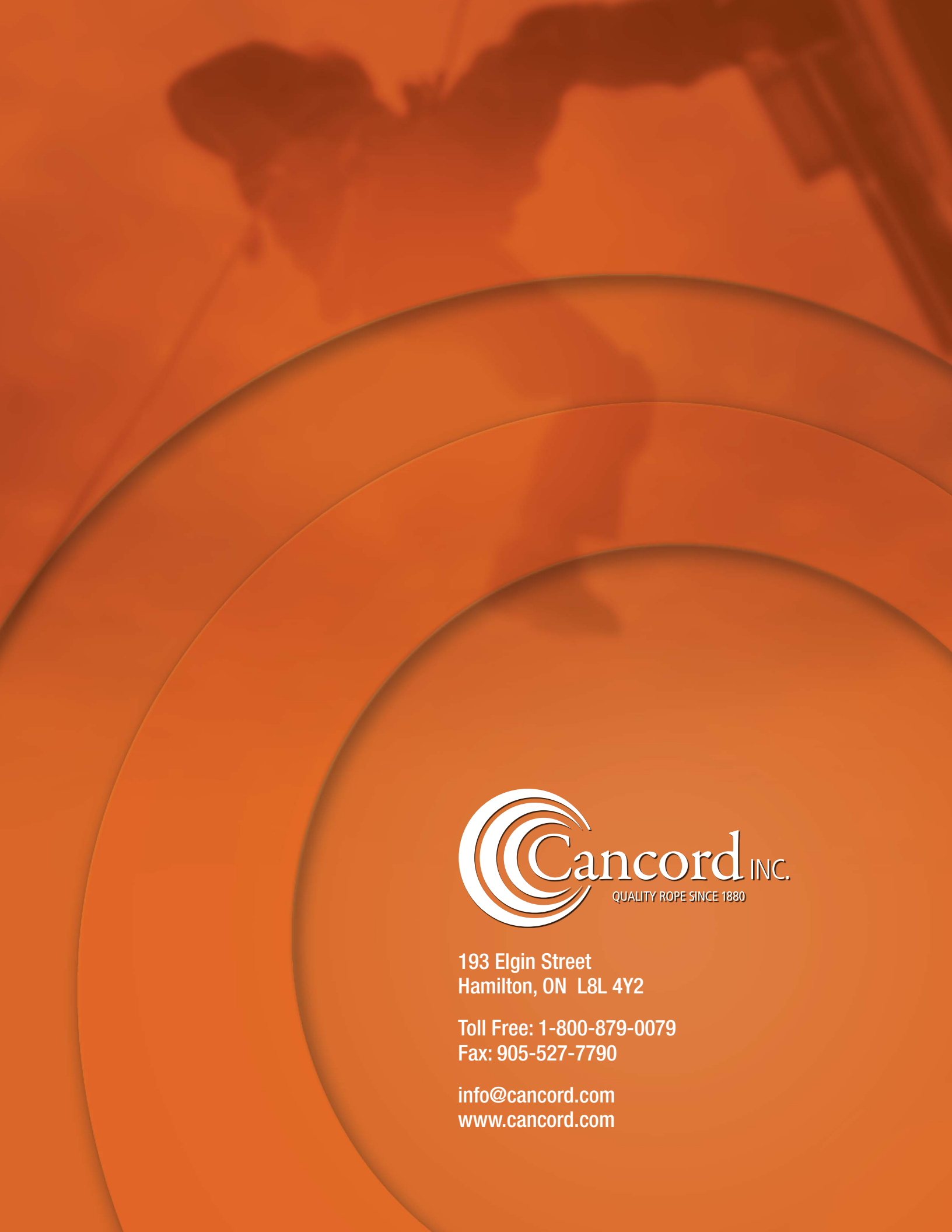
Decomposes at 500˚C

UV Resistance: Poor

Chemical Resistance
- Resistant to acids
- Resistant to alkalis
- Resistant to organic solvents
- Resistant to sea water and steam

Advantages
- Good strength
- Unaffected by water

Disadvantages
- Expensive



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