

# About Cancord



Cancord is a family run business that has been manufacturing rope and cordage products since 1880. We pride ourselves on providing quality product at reasonable prices, with exceptional customer service. Our products are used around the world in a wide range of industries and applications.

We produce both stock and custom rope products. We are committed to working with our customers to ensure they receive the product best suited to their application. Often, this can be accomplished with one of the many items we keep in stock. In many cases however, we have worked closely with our customers to develop a custom product specifically suited to their purpose. Our broad range of manufacturing and testing equipment enables us to excel at this. We encourage you to contact us with any unique or special requirements. Custom packaging is also available where required.

Our goal is to exceed your expectations with unsurpassed quality, exceptional service, true value and custom innovation.

## **Government & Military Products**

Cancord has a long history of manufacturing products to different government and military specifications. This catalogue details the products we keep in stock. However, we have the capability to manufacture many other products on a made to order basis. We have an extensive NSN database which often enables us to determine what product you are searching for with very little information. We encourage you to contact us with your requirements.

## **Contact Cancord**

Toll Free Nationwide: 1-800-879-0079

Fax: 905-527-7790

Customer Service Email: sales@cancord.com

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# Table of Contents

COF	RDAGE		
	Military Cord		4
	Tactical Cord		5
	Parachute Cord		5
	Paracord		6
	Utility Rope		8
	Versa-Pro Poly Rop	e	ç
LIF	ELINES		
	<b>Hercules</b>	Static Kernmantle Rope	10
		Personal Escape Rope	
		ord	
	Hercules <sup>®</sup>	Water Rescue Rope	14
ROI	PE BAGS & ACCESS	SORIES	
	Edge Protectors		15
HAI	RDWARE		
	Self Locking Snap H	Hooks	16
	Carabiners		17
	Rescue Figure 8		18
ADI	DITIONAL RESOUR	CES	
	Important Precautio	ons	19
	Rope Fibers		20
	Rope Construction .		22



## Military Cord

This cord is not only specified for use in the manufacture of tents, uniforms, and other military equipment, but is also widely used as a general purpose cord.

- Manufactured to D-80-001-028/SF-001 & DSPM 2-2-80-028
- Spun synthetic fiber has a nice soft feel
- Good knot tying characteristics
- Good UV resistance
- Unaffected by moisture

Part #	Diameter		Description	NSN	Package	MBS*	Weight/
rait#	inch	mm	Description	NON	rackage	(lb)	Reel (lb)
17-111-62W	7/64	3	Type 1, white	4020-21-882-9680	250m tube	170	2.5
16-111-62G	7/64	3	Type 1, olive drab (OG107)	4020-21-882-9701	250m tube	170	2.5
16-551-62	7/64	3	Type 1, Cdn average green	4020-21-882-9701	250m tube	170	2.5
16-111-62B	7/64	3	Type 1, black	4020-21-882-9715	250m tube	170	2.5
16-111-62S	7/64	3	Type 1, light sand	4020-21-002-3433	250m tube	170	2.5
17-222-62W	3/16	5	Type 2, white	4020-21-106-1391	250m tube	400	6
16-222-62G	3/16	5	Type 2, olive drab (0G107)	4020-21-874-2586	250m tube	400	6
16-552-62	3/16	5	Type 2, Cdn average green	4020-21-874-2586	250m tube	400	6
16-222-62B	3/16	5	Type 2, black		250m tube	400	6
16-222-62S	3/16	5	Type 2, light sand		250m tube	400	6

# CANCORD IS PROUD

to have worked with Stone Aerospace to develop and supply the safety tether used for the ARTEMIS 2015 - Robotic Exploration Beneath the McMurdo Ice Shelf. The Expedition Log from this project is an interesting read, and can be found at artemis2015.weebly.com.

<sup>\*</sup> Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 19 for additional information.

## Tactical Cord

Although originally designed for use in the manufacture of military gear, this cord is also regularly used as a general purpose cord.

- Manufactured from UV stabilized nylon yarn
- Good knot tying and handling characteristics
- Good durability



Dart #	Diamete Part #	neter	Description	NSN	Package	MBS*	Weight/
Part #	inch	mm	Description	11311		(lb)	Reel (lb)
27-030-88	7/64	2.8	Black braided nylon	4020-21-109-4655	200m tube	300	2

# Parachute Cord

This light weight nylon cord was originally designed for use as suspension lines on US parachutes during WWII. It is now widely used as a general purpose tying cord by both the military and general public. It is often used to fabricate braided lanyards, belts and other decorative items.

- Manufactured to MIL-C-5040
- Smooth braided nylon sheath
- Type 1A is coreless
- Type 2 has 4 core strands
- Type 3 has 7 core strands



Part #	Diameter	Description	NSN	Package	MBS*	Weight/	
Part #	inch	mm	Description	INSIN	Package	(lb)	Reel (lb)
18-100-70	1/32	1	Type 1A, natural (white)	4020-00-292-9920	700 yd reel	100	2
18-400-70	3/32	2.5	Type 2, natural (white)	4020-00-555-8639	700 yd reel	400	8
18-550-70	1/8	3	Type 3, natural (white)	4020-00-240-2146	700 yd reel	550	10
19-550-40-200	1/8	3	Type 3, black		400 yd reel	550	6
19-550-40-500	1/8	3	Type 3, red	4020-00-262-2147	400 yd reel	550	6
19-550-40-900	1/8	3	Type 3, olive drab (camo)	4020-00-246-0688	400 yd reel	550	6

<sup>\*</sup> Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 19 for additional information.

1-800-879-0079 5



## **Paracord**

This commercial grade nylon paracord is ideal as a general purpose cord, or for lanyards, paracord braiding and crafts.

- Nylon construction
- Wide assortment of colours
- 7 strand core
- Exceptional knotting characteristics

Dout #	C:	Dian	neter	Dackage	Colour	Weight/
Part #	Size	inch	mm	Package	Colour	Package (lb)
27-104-05-200	4	1/8	3.5	50' hank	Black	0.25
27-104-01-200	4	1/8	3.5	100' hank	Black	0.5
27-104-64-200	4	1/8	3.5	1,000' reel	Black	5
27-104-05-211	4	1/8	3.5	50' hank	Black/White	0.25
27-104-01-211	4	1/8	3.5	100' hank	Black/White	0.5
27-104-64-211	4	1/8	3.5	1,000' reel	Black/White	5
27-104-25-G00	4	1/8	3.5	50' hank	Blue (Light)	0.25
27-104-25-G00	4	1/8	3.5	100' hank	Blue (Light)	0.5
27-104-25-G00	4	1/8	3.5	1,000' reel	Blue (Light)	5
27-104-25-M00	4	1/8	3.5	50' hank	Blue (Navy)	0.25
27-104-25-M00	4	1/8	3.5	100' hank	Blue (Navy)	0.5
27-104-25-M00	4	1/8	3.5	1,000' reel	Blue (Navy)	5
27-104-25-600	4	1/8	3.5	50' hank	Blue (Royal)	0.25
27-104-25-600	4	1/8	3.5	100' hank	Blue (Royal)	0.5
27-104-25-600	4	1/8	3.5	1,000' reel	Blue (Royal)	5
27-104-05-C00	4	1/8	3.5	50' hank	Brown	0.25
27-104-01-C00	4	1/8	3.5	100' hank	Brown	0.5
27-104-64-C00	4	1/8	3.5	1,000' reel	Brown	5
27-104-05-A00	4	1/8	3.5	50' hank	Burgundy	0.25
27-104-01-A00	4	1/8	3.5	100' hank	Burgundy	0.5
27-104-64-A00	4	1/8	3.5	1,000' reel	Burgundy	5
27-104-25-T00	4	1/8	3.5	50' hank	Camo (Blue)	0.25
27-104-25-T00	4	1/8	3.5	100' hank	Camo (Blue)	0.5
27-104-25-T00	4	1/8	3.5	1,000' reel	Camo (Blue)	5
27-104-25-L00	4	1/8	3.5	50' hank	Camo (Cadpat)	0.25
27-104-25-L00	4	1/8	3.5	100' hank	Camo (Cadpat)	0.5
27-104-25-L00	4	1/8	3.5	1,000' reel	Camo (Cadpat)	5
27-104-25-N00	4	1/8	3.5	50' hank	Camo (Dark)	0.25

<sup>\*</sup> Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 19 for additional information.

## Paracord (Continued)

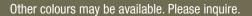
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Part #	Size	inch	mm	Package	Colour	Weight/ Package (lb)
27-104-25-N00	4	1/8	3.5	100' hank	Camo (Dark)	0.5
27-104-25-N00	4	1/8	3.5	1,000' reel	Camo (Dark)	5
27-104-25-K00	4	1/8	3.5	50' hank	Camo (Sand)	0.25
27-104-25-K00	4	1/8	3.5	100' hank	Camo (Sand)	0.5
27-104-25-K00	4	1/8	3.5	1,000' reel	Camo (Sand)	5
27-104-05-E00	4	1/8	3.5	50' hank	Gold	0.25
27-104-01-E00	4	1/8	3.5	100' hank	Gold	0.5
27-104-64-E00	4	1/8	3.5	1,000' reel	Gold	5
27-104-05-B00	4	1/8	3.5	50' hank	Green (Hunter)	0.25
27-104-01-B00	4	1/8	3.5	100' hank	Green (Hunter)	0.5
27-104-64-B00	4	1/8	3.5	1,000' reel	Green (Hunter)	5
27-104-05-400	4	1/8	3.5	50' hank	Green (Kelly)	0.25
27-104-01-400	4	1/8	3.5	100' hank	Green (Kelly)	0.5
27-104-64-400	4	1/8	3.5	1,000' reel	Green (Kelly)	5
27-104-05-900	4	1/8	3.5	50' hank	Green (Olive)	0.25
27-104-01-900	4	1/8	3.5	100' hank	Green (Olive)	0.5
27-104-64-900	4	1/8	3.5	1,000' reel	Green (Olive)	5
27-104-05-F00	4	1/8	3.5	50' hank	Green (Neon)	0.25
27-104-01-F00	4	1/8	3.5	100' hank	Green (Neon)	0.5
27-104-64-F00	4	1/8	3.5	1,000' reel	Green (Neon)	5
27-104-05-D00	4	1/8	3.5	50' hank	Grey	0.25
27-104-01-D00	4	1/8	3.5	100' hank	Grey	0.5
27-104-64-D00	4	1/8	3.5	1,000' reel	Grey	5
27-104-05-700	4	1/8	3.5	50' hank	Orange (Safety)	0.25
27-104-01-700	4	1/8	3.5	100' hank	Orange (Safety)	0.5
27-104-64-700	4	1/8	3.5	1,000' reel	Orange (Safety)	5
27-104-05-R00	4	1/8	3.5	50' hank	Purple	0.25
27-104-01-R00	4	1/8	3.5	100' hank	Purple	0.5
27-104-64-R00	4	1/8	3.5	1,000' reel	Purple	5
27-104-05-500	4	1/8	3.5	50' hank	Red	0.25
27-104-01-500	4	1/8	3.5	100' hank	Red	0.5
27-104-64-500	4	1/8	3.5	1,000' reel	Red	5
27-104-05-511	4	1/8	3.5	50' hank	Red/White	0.25
27-104-01-511	4	1/8	3.5	100' hank	Red/White	0.5
27-104-64-511	4	1/8	3.5	1,000' reel	Red/White	5
27-104-05-100	4	1/8	3.5	50' hank	White	0.25

<sup>\*</sup> Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 19 for additional information.

1-800-879-0079 7

## Paracord (Continued)

Part #	Size	Diameter		Package	Colour	Weight/	
Pail #	3126	inch	mm	Package	Colour	Package (lb)	
27-104-01-100	4	1/8	3.5	100' hank	White	0.5	
27-104-64-100	4	1/8	3.5	1,000' reel	White	5	
27-104-05-300	4	1/8	3.5	50' hank	Yellow	0.25	
27-104-01-300	4	1/8	3.5	100' hank	Yellow	0.5	
27-104-64-300	4	1/8	3.5	1,000' reel	Yellow	5	
27-104-05-325	4	1/8	3.5	50' hank	Yellow/Red/Black	0.25	
27-104-01-325	4	1/8	3.5	100' hank	Yellow/Red/Black	0.5	
27-104-64-325	4	1/8	3.5	1,000' reel	Yellow/Red/Black	5	





# **Utility Rope**

Our utility rope is a high quality, durable rope for general purpose or technical applications.

- Superior flexibility for knot tying
- Durable
- Good UV resistance

Part #	Diameter		Package	Colour	MBS* (lb)	Weight/Reel
rait #	inch	mm	rackage	Coloui	MB3 (ID)	(lb)
06-303-21-200-0200	1/8	3	200' reel	Black	450	2
06-303-21-600-0200	1/8	3	200' reel	Blue (Royal)	450	2
06-303-21-T00-0200	1/8	3	200' reel	Camo (Blue)	450	2
06-303-21-L00-0200	1/8	3	200' reel	Camo - Cadpat	450	2
06-303-21-K00-0200	1/8	3	200' reel	Camo - Sand	450	2
06-303-21-400-0200	1/8	3	200' reel	Green	450	2
06-303-21-500-0200	1/8	3	200' reel	Red	450	2
06-303-21-900-0200	1/8	3	200' reel	Olive Drab	450	2
06-303-21-700-0200	1/8	3	200' reel	Orange (Safety)	450	2
06-303-21-300-0200	1/8	3	200' reel	Yellow	450	2
06-306-21-200-0200	1/4	6	200' reel	Black	2,200	4
06-306-21-600-0200	1/4	6	200' reel	Blue (Royal)	2,200	4
06-306-21-T00-0200	1/4	6	200' reel	Camo (Blue)	2,200	4

<sup>\*</sup> Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 19 for additional information.

Part #	Diam	eter	Package	Colour	MBS* (lb)	Weight/Reel
l dit "	inch	mm	, achage		1123 (12)	(lb)
06-306-21-L00-0200	1/4	6	200' reel	Camo - Cadpat	2,200	4
06-306-21-K00-0200	1/4	6	200' reel	Camo - Sand	2,200	4
06-306-21-400-0200	1/4	6	200' reel	Green	2,200	4
06-306-21-500-0200	1/4	6	200' reel	Red	2,200	4
06-306-21-900-0200	1/4	6	200' reel	Olive Drab	2,200	4
06-306-21-700-0200	1/4	6	200' reel	Orange (Safety)	2,200	4
06-306-21-300-0200	1/4	6	200' reel	Yellow	2,200	4
06-308-21-200-0200	5/16	8	200' reel	Black	3,000	6
06-308-21-600-0200	5/16	8	200' reel	Blue (Royal)	3,000	6
06-308-21-T00-0200	5/16	8	200' reel	Camo (Blue)	3,000	6
06-308-21-L00-0200	5/16	8	200' reel	Camo - Cadpat	3,000	6
06-308-21-K00-0200	5/16	8	200' reel	Camo - Sand	3,000	6
06-308-21-400-0200	5/16	8	200' reel	Green	3,000	6
06-308-21-500-0200	5/16	8	200' reel	Red	3,000	6
06-308-21-900-0200	5/16	8	200' reel	Olive Drab	3,000	6
06-308-21-700-0200	5/16	8	200' reel	Orange (Safety)	3,000	6
06-308-21-300-0200	5/16	8	200' reel	Yellow	3,000	6

# Versa-Pro Poly Rope

Our 3 strand monofilament polypropylene ropes are an economic, general purpose rope.

- Light weight
- Easily spliced
- An excellent insulator (low dielectric loss, may be used safely around "hot" wires)
- Floats

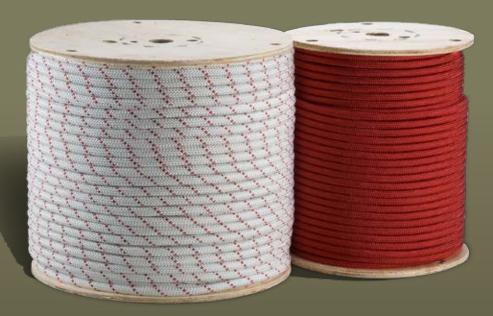


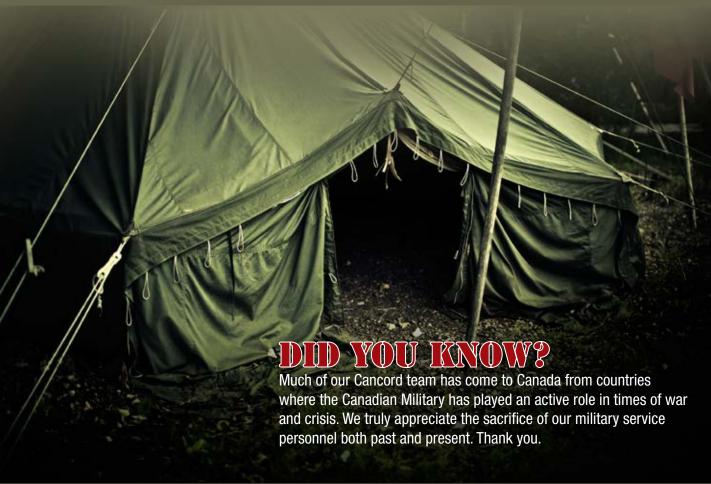
Part #	Dian	neter	Package	Colour	MBS* (lb)	Weight/Reel
rait #	inch	mm	rackage	33,34,		(lb)
20-903-17-200	1/8	3	3,000 ft. reel	Black	325	10
20-905-12-200	3/16	5	1,200 ft. reel	Black	650	10
20-906-12-200	1/4	6	1,200 ft. reel	Black	1,125	14
20-910-60-200	3/8	10	600 ft. reel	Black	2,430	17

<sup>\*</sup> Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 19 for additional information.

# **Hercules** Static Kernmantle Rope

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 Hercules® kernmantle ropes are designed for performance with exceptional strength and durability.





<sup>\*</sup> Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 19 for additional information.

10

## Hercules Static Kernmantle Rope

Part #	Diameter		Colour	Certification	MBS* (lb)
Part #	inch	mm	Colour	Certification	MB3 (ID)
10-310-20-150	3/8	10	White/Red	NFPA 1983 Light Use	6,000
10-310-20-200	3/8	10	Black	NFPA 1983 Light Use	6,000
10-310-20-500	3/8	10	Red	NFPA 1983 Light Use	6,000
10-311-20-140	7/16	11	White/Green	NFPA 1983 Light Use	6,750
10-311-20-200	7/16	11	Black	NFPA 1983 Light Use	6,750
10-313-20-600	7/16	11	Blue	NFPA 1983 Light Use	6,750
10-311-20-500	7/16	11	Red	CNFPA 1983 Light Use	6,750
10-311-20-700	7/16	11	Orange	NFPA 1983 Light Use	6,750
10-313-20-150	1/2	13	White/Red	NFPA 1983 General Use	9,000
10-313-20-200	1/2	13	Black	NFPA 1983 General Use	9,000
10-313-20-300	1/2	13	Yellow	NFPA 1983 General Use	9,000
10-313-20-400	1/2	13	Green	NFPA 1983 General Use	9,000
10-313-20-500	1/2	13	Red	NFPA 1983 General Use	9,000
10-313-20-600	1/2	13	Blue	NFPA 1983 General Use	9,000
10-313-20-700	1/2	13	Orange	NFPA 1983 General Use	9,000
10-313-20-900	1/2	13	Olive Drab	NFPA 1983 General Use	9,000
10-316-20-120	5/8	16	White/Black	NFPA 1983 General Use	12,000
10-316-20-200	5/8	16	Black	NFPA 1983 General Use	11,250

Our Hercules® Kernmantle ropes are NFPA 1983 Certified as indicated below. They can also be supplied with swaged terminations at the ends and hardware attached if required. Please refer to pages 16 thru 18 for available hooks and carabiners. When supplied in this manner they are CSA Z259.2.5 Certified.



<sup>\*</sup> Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 19 for additional information.



## Hercules 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 500°C, core to 245°C)
- Durable
- High strength

- Good handling and knot tying characteristics
- Technora<sup>®</sup> skin over polyester core

Part #	Diameter		Colour	Certification	MBS* (lb)	
Pail #	inch	mm	Colour	Certification	141B3 (1D)	
10-608-21-800	5/16	8.3	Gold	NFPA 1983	3,500	

# 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.

- Heavy sheath
- Good UV resistance



<sup>\*</sup> Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 19 for additional information.

Part #	Diameter		Dackage	Colour	MDC* (Ib)	Weight/
Part #	inch	mm	Package	Colour	MBS* (lb)	Reel (lb)
06-306-21-200	1/4	6	200' reel	Black	2,200	4
06-306-21-600	1/4	6	200' reel	Blue	2,200	4
06-306-21-400	1/4	6	200' reel	Green	2,200	4
06-306-21-900	1/4	6	200' reel	Olive Drab	2,200	4
06-306-21-700	1/4	6	200' reel	Orange (Safety)	2,200	4
06-306-21-500	1/4	6	200' reel	Red	2,200	4
06-306-21-300	1/4	6	200' reel	Yellow	2,200	4
06-306-21-100	1/4	6	200' reel	White	2,200	4
06-308-21-200	5/16	8	200' reel	Black	3,000	6
06-308-21-600	5/16	8	200' reel	Blue	3,000	6
06-308-21-400	5/16	8	200' reel	Green	3,000	6
06-308-21-900	5/16	8	200' reel	Olive Drab	3,000	6
06-308-21-700	5/16	8	200' reel	Orange (Safety)	3,000	6
06-308-21-500	5/16	8	200' reel	Red	3,000	6
06-308-21-300	5/16	8	200' reel	Yellow	3,000	6
06-309-21-200	11/32	9	200' reel	Black	3,700	8
06-309-21-600	11/32	9	200' reel	Blue	3,700	8
06-309-21-400	11/32	9	200' reel	Green	3,700	8
06-309-21-900	11/32	9	200' reel	Olive Drab	3,700	8
06-309-21-700	11/32	9	200' reel	Orange (Safety)	3,700	8
06-309-21-500	11/32	9	200' reel	Red	3,700	8
06-309-21-300	11/32	9	200' reel	Yellow	3,700	8

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.

# IN 1992

Cancord supplied its Hercules® 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.



<sup>\*</sup> Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 19 for additional information.



## Hercules Water Rescue Rope

Our Hercules® brand 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* (lb)
Part #	inch	mm	Coloui	14163 (10)
07-310-21-730	3/8	10	Orange/Yellow	4,000
07-310-21-370	3/8	10	Yellow/orange	4,000
07-313-21-730	1/2	13	Orange/Yellow	6,000
07-313-21-370	1/2	13	Yellow/Orange	6,000



## **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		Package	Colour	MBS* (lb)	Weight/Reel
i di c ii	inch	mm	rackage	Coloui	1100 (10)	(lb)
07-308-21-350	5/16	8	600' reel	Yellow/Red	2,000	16

<sup>\*</sup> Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 19 for additional information.

# ROPEBAGS & ACCESSORIES

## 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" Rope - sold separately)
14-302-11-500	Small Rope Bag – Red	150 – 200 feet
14-304-11-300	Medium Rope Bag – Yellow	300 – 400 feet
14-306-11-700	Large Rope Bag – Orange	500 – 650 feet



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

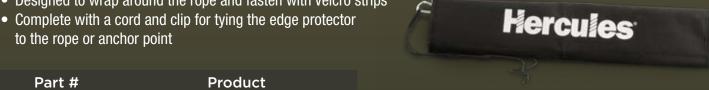
Part #	Product	Capacity (1/2" Rope – sold separately)
14-050-11	Water Throw Bag – Orange	50 feet of 8mm rope
14-075-11	Water Throw Bag – Orange	75 feet of 8 or 10mm rope

## **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
- to the rope or anchor point

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



<sup>\*</sup> Breaking strength does not indicate the safe working load of a rope. Please refer to Important Precautions on page 19 for additional information.





# **HARDWARE**

## **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







- 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



- 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

# **HARDWARE**

### **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



# **HARDWARE**

# 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 Descender

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







# **ADDITIONAL**RESOURCES

## **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





Chars at 148°C



Very Good

## Manila





Chars at 148°C



Verv 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

## 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





Melts at 165°C



Fair

# **Polysteel**





Melts at 140°C



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)









## **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)

20

# **ADDITIONAL** RESOURCES

## **Nylon**





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



Good

## Polyester







Verv 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

## **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

## **Kevlar**®





Decomposes at 500°C



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®





Melts at 145°C



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<sup>®</sup>





Decomposes at 500°C



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

# **ADDITIONAL** RESOURCES

### ROPE CONSRUCTION



## **Twisted Ropes**

These ropes can be recognized by their spiral shapes. They are made by twisting together bundles of individual yarns to form strands, which are then twisted together to form the rope. Twisted ropes are easily spliced.



# **Braided Ropes**

These ropes come in many variations and braiding patterns, but always consist of bundles of fiber which are formed into strands and then woven together by passing each strand over and under the others.

Cancord primarily manufactures braided ropes. Some of the different braided ropes we manufacture include:



## **Diamond Braid**

These ropes are formed by rotating half the yarn strands in one direction on the braider, while the other half rotate in the opposite direction. These cords may be hollow, or they may have a center core of parallel fibers. These ropes tend to be a little flatter than other braided rope constructions.



## Double Braid

These ropes are constructed from an inner hollow single braided rope (core) which has another hollow single braided rope constructed around its exterior (skin). The end result is a rope within a rope. Both the skin and the core share the load on the rope, but not necessarily in equal amounts. These ropes are generally very flexible, strong and pleasant to handle. They are easily spliced. Caution must be exercised where double braid ropes are run over pulleys, through hardware, or in any situation where the outer rope may slide along on the inner rope and bunch up. This condition, often called "milking", will result in a dramatic loss of strength by causing the entire load to be applied to the inner core. These ropes are also referred to as "Marine Ropes", "Yacht Braid" and "2 in 1".

# **ADDITIONAL** RESOURCES

### ROPE CONSRUCTION

## Kernmantle

These ropes are made by braiding a cover (mantle) over a core (kern). The core may consist of filaments of fiber lying essentially parallel inside the rope, or it may be twisted or braided into little bundles. The ropes are designed so that the inner core is taking most (often all) of the load, with the outer cover serving mainly to protect against abrasive action, dirt, and UV rays. All other types of rope have the load bearing fibers exposed and therefore deteriorate more rapidly. These ropes are exceptionally strong and durable, and can be made to have very low elongation. All kernmantle ropes have some stretch. However, static ropes are designed to minimize the amount of stretch, whereas dynamic ropes have relatively more stretch.



## Solid Braid

These ropes are made by braiding 12, 18 or 20 strands in a reasonably complex pattern with all the strands rotating in the same direction on the braider. The center of the rope may contain a filler core. These ropes maintain their round shape and therefore work very well in pulleys and sheaves. They tend to have high elongation but generally have less strength than other constructions. They cannot be spliced. These ropes are also referred to as "Sash Braid".



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