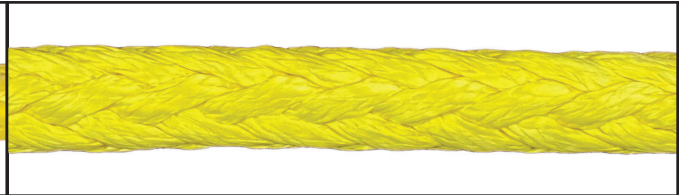


# UHMPE PROLINE12® - Eye & Eye Rope Slings



**UHMPE 12 Strand Construction:  
Up to 1-1/2" Diameter**



**UHMPE 12x12 Strand Construction:  
1-5/8" Diameter & Larger**

When compared to Wire Rope Slings, Lift-It® PROLINE12® UHMPE Synthetic Rope Slings offer:

- Superior strength-to-weight ratio.
- Excellent bending fatigue.
- Similar elongation properties at approximately 1%.
- Will not sink, UHMPE Slings float!
- 1/7 the weight of Wire Rope Slings.
- Non corrosive, do not require lubrication.
- Easy to inspect.

UHMPE Rope is treated to provide protection against abrasion and UV light degradation.

**⚠ WARNING** Do not use Lift-It® PROLINE12® UHMPE Rope Slings in contact with objects or at temperatures above 140°F (60°C) or below -40°F (-40°C).

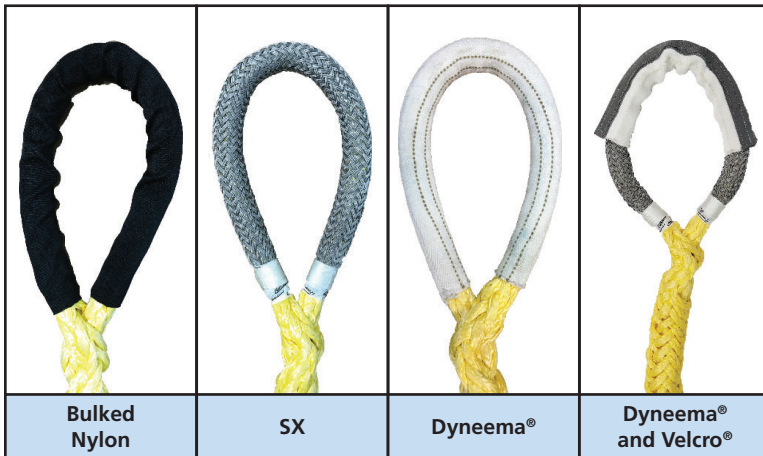
### ⚠ WARNING

Choke point protection for UHMPE Rope Slings is MANDATORY! When UHMPE Rope Slings are used in a choker hitch, protection MUST be properly placed at the choke point to reduce friction and prevent rope-on-rope damage. Endless UHMPE Rope Slings will require additional or larger protection devices to cover all rope components at the choke point.

The protection must always be of sufficient strength, thickness and construction, such as but not limited to CornerMax® Sleeve (depicted). A qualified person and/or properly informed and trained consumer must determine protection adequacy.



## EYE SLEEVES



Bulked Nylon (Cordura®) Eye Sleeves are provided at no additional charge on all PROLINE12® Sling eyes.

### ⚠ WARNING

**Abrasion resistant covers provide no protection against cutting.**

SX Eye Sleeves are provided for an additional charge and combine the light weight and non-absorbing UHMPE properties into a braided sleeve.

Dyneema® Eye Sleeves are available for an additional charge and are more cut resistant than Cordura® and/or SX Eye Sleeves.

## BODY COVERS

Body covers are provided for an additional charge and may prevent abrasion damage and the penetration of dirt and debris into the rope fibers. YKK® No. 10c Heavy Duty Marine Grade Zipper closure enables easy installation and removal, streamlining sling inspection. Body Covers are captivated at each sling end by Retainer Straps which prevent the cover from shifting.

All covers feature tags, which include stock number and serial number for ease of identification and re-ordering.

### MATERIAL CHOICES:

- Cordura® Fabric
- Cordura® with Inner Vinyl






Color options vary with material choice



**⚠ WARNING** See the User Guide that accompanies PROLINE12® slings for Important Safety, Use and Inspection Information.

# UHMPE PROLINE12® Eye & Eye Rope Sling Specifications



Rope Diameter (Inches)	Rope Diameter (mm)	Stock Number	Working Load Limits (Lbs.)			Minimum Length Weight (Lbs.)	Adder / Ft. Weight (Lbs.)	Bearing (Feet-Inches)
			Choker* 	Vertical 	Basket @ 90 			
1/4"	6 mm	EE-UHMPE-1/4	1,120	1,600	3,200	0.1	0.02	2'-2"
5/16"	8 mm	EE-UHMPE-5/16	1,630	2,300	4,600	0.2	0.03	2'-10"
3/8"	9 mm	EE-UHMPE-3/8	2,450	3,500	7,000	0.2	0.04	3'-4"
7/16"	11 mm	EE-UHMPE-7/16	2,940	4,200	8,400	0.2	0.04	3'-10"
1/2"	12 mm	EE-UHMPE-1/2	4,380	6,200	12,400	0.5	0.06	4'-5"
9/16"	14 mm	EE-UHMPE-9/16	5,300	7,500	15,000	0.6	0.08	5'
5/8"	16 mm	EE-UHMPE-5/8	7,190	10,200	20,400	1.1	0.11	5'-7"
3/4"	18 mm	EE-UHMPE-3/4	9,590	13,700	27,400	1.4	0.13	6'-7"
13/16"	20 mm	EE-UHMPE-13/16	10,300	14,800	29,600	2.1	0.16	7'-2"
7/8"	22 mm	EE-UHMPE-7/8	12,900	18,500	37,000	2.8	0.20	7'-10"
1"	24 mm	EE-UHMPE-1	15,400	22,000	44,000	3.5	0.23	8'-10"
1-1/16"	26 mm	EE-UHMPE-1-1/16	18,000	25,800	51,600	4.2	0.28	9'-5"
1-1/8"	28 mm	EE-UHMPE-1-1/8	20,500	29,400	58,800	5.1	0.32	10'-1"
1-1/4"	30 mm	EE-UHMPE-1-1/4	23,100	33,000	66,000	6.8	0.36	11'
1-5/16"	32 mm	EE-UHMPE-1-5/16	27,400	39,200	78,400	8.4	0.42	11'-7"
1-1/2"	36 mm	EE-UHMPE-1-1/2	30,900	44,200	88,400	11.4	0.52	13'-2"
1-5/8"	40 mm	EE-UHMPE-1-5/8	40,700	58,000	116,000	15.8	0.66	14'-6"
1-3/4"	44 mm	EE-UHMPE-1-3/4	43,900	62,000	124,000	20.3	0.78	15'-8"
2"	48 mm	EE-UHMPE-2	49,700	71,000	142,000	26.4	0.91	17'-7"
2-1/8"	52 mm	EE-UHMPE-2-1/8	59,900	85,000	170,000	33.8	1.1	18'-11"
2-1/4"	56 mm	EE-UHMPE-2-1/4	67,300	96,000	192,000	40.3	1.2	20'-1"
2-1/2"	60 mm	EE-UHMPE-2-1/2	74,200	106,000	212,000	54.8	1.5	22'-1"
2-5/8"	64 mm	EE-UHMPE-2-5/8	83,400	119,000	238,000	71.8	1.7	23'-4"
2-3/4"	68 mm	EE-UHMPE-2-3/4	92,400	132,000	264,000	91.6	1.9	24'-6"
3"	72 mm	EE-UHMPE-3	109,200	156,000	312,000	119.8	2.1	26'-6"
3-1/8"	76 mm	EE-UHMPE-3-1/8	119,000	170,000	340,000		2.4	27'-8"
3-1/4"	80 mm	EE-UHMPE-3-1/4	131,600	188,000	376,000		2.6	28'-11"
3-1/2"	84 mm	EE-UHMPE-3-1/2	155,100	221,000	442,000		3.0	30'-11"
3-5/8"	88 mm	EE-UHMPE-3-5/8	175,000	250,000	500,000		3.2	32'-1"
3-3/4"	92 mm	EE-UHMPE-3-3/4	184,300	263,000	526,000		3.4	33'-4"
4"	96 mm	EE-UHMPE-4	212,800	304,000	608,000		3.9	35'-4"
4-1/8"	100 mm	EE-UHMPE-4-1/8	227,000	324,000	648,000		4.6	36'-6"
4-1/4"	104 mm	EE-UHMPE-4-1/4	237,500	339,000	678,000		5.1	37'-10"
4-1/2"	108 mm	EE-UHMPE-4-1/2	255,700	365,000	730,000		5.3	39'-8"
4-5/8"	112 mm	EE-UHMPE-4-5/8	263,200	376,000	752,000		5.5	40'-11"
4-3/4"	116 mm	EE-UHMPE-4-3/4	269,700	385,000	770,000		5.9	42'-2"
5"	120 mm	EE-UHMPE-5	289,700	413,000	826,000		6.1	44'-1"
5-1/8"	124 mm	EE-UHMPE-5-1/8	309,600	442,000	884,000		6.6	45'-5"
5-1/4"	128 mm	EE-UHMPE-5-1/4	329,700	471,000	942,000		7.0	46'-7"
5-1/2"	132 mm	EE-UHMPE-5-1/2	349,600	499,000	998,000		7.5	48'-6"
5-5/8"	136 mm	EE-UHMPE-5-5/8	369,600	528,000	1,056,000		8.1	49'-10"
5-3/4"	140 mm	EE-UHMPE-5-3/4	389,500	556,000	1,112,000		8.7	51'-0"
6"	144 mm	EE-UHMPE-6	409,000	585,000	1,170,000		9.3	52'-11"
6-1/8"	148 mm	EE-UHMPE-6-1/8	429,000	613,000	1,226,000		9.9	54'-2"
6-1/4"	152 mm	EE-UHMPE-6-1/4	449,000	640,000	1,280,000		10.4	55'-5"
6-1/2"	156 mm	EE-UHMPE-6-1/2	469,000	670,000	1,340,000		11.0	57'-5"
6-5/8"	160 mm	EE-UHMPE-6-5/8	489,000	690,000	1,380,000		11.6	58'-7"
6-3/4"	164 mm	EE-UHMPE-6-3/4	509,000	720,000	1,440,000		12.3	59'-10"
7"	168 mm	EE-UHMPE-7	529,000	750,000	1,500,000		12.8	61'-10"
7-1/8"	172 mm	EE-UHMPE-7-1/8	554,000	790,000	1,580,000		13.3	63'-0"
7-1/4"	176 mm	EE-UHMPE-7-1/4	569,000	810,000	1,620,000		13.9	64'-2"
7-1/2"	180 mm	EE-UHMPE-7-1/2	589,000	840,000	1,680,000		14.5	66'-2"
7-5/8"	184 mm	EE-UHMPE-7-5/8	609,000	870,000	1,740,000		15.3	67'-5"
7-3/4"	188 mm	EE-UHMPE-7-3/4	629,000	890,000	1,780,000		15.9	68'-7"
8"	192 mm	EE-UHMPE-8	649,000	920,000	1,840,000		16.5	70'-7"
8-1/8"	196 mm	EE-UHMPE-8-1/8	669,000	950,000	1,900,000		17.3	71'-10"
8-1/4"	200 mm	EE-UHMPE-8-1/4	689,000	980,000	1,960,000		18.0	73'-1"



# PROLINE12™ UHMPE Adjustable Rope Slings

PROLINE12™ UHMPE Adjustable Rope Slings replace multiple, “non-adjustable” slings by accommodating a range of dimensional requirements with infinite adjustability. Available in single, double, three and four leg configurations, PROLINE12™ UHMPE Adjustable Rope Slings are made from single braid, twelve strand, low elongation high performance synthetic rope. Stock lengths are shown below, however custom lengths and adjustment ranges are readily available.

UHMPE Adjustable Rope Slings provide higher Work Load Limits than standard, polyester adjustable rope slings. PROLINE12™ UHMPE Adjustable Rope Slings are treated with a coating to enhance abrasion and UV degradation resistance.

Lift-It® PROLINE12™ UHMPE Adjustable Rope Slings feature wear protection sleeves in the lift and connection eyes.

PROLINE12™ UHMPE Adjustable Rope Slings are labeled with the information currently required by the various regulatory agencies. Please review the User Guide that accompanies each PROLINE12™ UHMPE Adjustable Rope Sling for information on proper use and inspection.

UHMPE SINGLE LEG – UHMPE ADJUSTABLE ROPE SLINGS				
ROPE DIAMETER Inches	STOCK NUMBER	Work Load Limit (WLL) Lbs.		ADJUSTMENT RANGE
		VERTICAL	BASKET*	O.A.L. – Inches
5/16	EE-ADJ-UHMPE-5/16-49-72	1,800	3,600	49 – 72
3/8	EE-ADJ-UHMPE-3/8-54-72	2,800	5,600	54 – 72
1/2	EE-ADJ-UHMPE-1/2-71-96	5,000	10,000	71 – 96
5/8	EE-ADJ-UHMPE-5/8-85-120	8,200	16,400	85 – 120
3/4	EE-ADJ-UHMPE-3/4-100-144	10,900	21,800	100 – 144
7/8	EE-ADJ-UHMPE-7/8-118-168	14,800	29,600	118 – 168
1	EE-ADJ-UHMPE-1-131-180	17,600	35,200	131 – 180
1-1/4	EE-ADJ-UHMPE-1-1/4-161-216	26,400	52,800	161 – 216
1-1/2	EE-ADJ-UHMPE-1-1/2-193-241	35,300	70,600	193 – 241
1-3/4	EE-ADJ-UHMPE-1-3/4-225-273	50,200	100,400	225 – 273
2	EE-ADJ-UHMPE-2-256-304	56,800	113,600	256 – 304
2-1/4	EE-ADJ-UHMPE-2-1/4-297-370	76,960	153,920	297 – 370
2-1/2	EE-ADJ-UHMPE-2-1/2-328-420	84,800	169,600	328 – 420

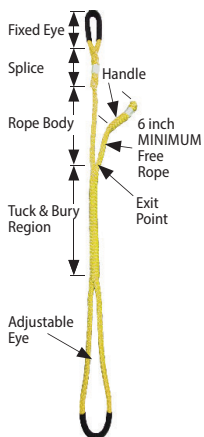


\*WLL when the D/d ratio is 25:1. If basket D/d around the load is less than 25:1, WLL MUST be reduced. See UHMPE D/d Chart and Figure below.



DOUBLE LEG – UHMPE ADJUSTABLE ROPE SLINGS				
ROPE DIAMETER Inches	STOCK NUMBER	WLL (Lbs.)		ADJUSTMENT RANGE
		60°	45°	O.A.L. – Inches
5/16	MLB2-EE-ADJ-UHMPE-5/16-36-72	3,110	2,450	36 – 72
3/8	MLB2-EE-ADJ-UHMPE-3/8-40-96	4,850	3,950	40 – 96
1/2	MLB2-EE-ADJ-UHMPE-1/2-51-108	8,600	7,000	51 – 108
5/8	MLB2-EE-ADJ-UHMPE-5/8-61-120	14,200	11,600	61 – 120
3/4	MLB2-EE-ADJ-UHMPE-3/4-71-120	18,900	15,400	71 – 120
7/8	MLB2-EE-ADJ-UHMPE-7/8-81-132	25,600	20,900	81 – 132
1	MLB2-EE-ADJ-UHMPE-1-89-144	30,400	24,800	89 – 144
1-1/4	MLB2-EE-ADJ-UHMPE-1-1/4-107-144	45,700	37,300	107 – 144
1-1/2	MLB2-EE-ADJ-UHMPE-1-1/2-130-180	61,200	49,990	130 – 180
1-3/4	MLB2-EE-ADJ-UHMPE-1-3/4-150-198	87,000	71,000	150 – 198
2	MLB2-EE-ADJ-UHMPE-2-170-218	98,300	80,300	170 – 218

## Considerations for Lift-It® PROLINE12™ UHMPE Rope Slings



- During use in basket hitches, ANY CONTACT with Adjustable UHMPE Rope Slings must be on the ROPE BODY between the Fixed Eye splice and Tuck & Bury Region.
- During use, NEVER allow the Tuck & Bury Region, also known as the Adjustable Splice, to contact the load and/or connection/suspension points.
- During use, The Handle must NEVER contact the Exit Point of the Tuck & Bury Region.
- During use, the Free Rope must extend a MINIMUM of 6 inches from the Exit Point.
- Slings shall not be shortened or lengthened by knotting or twisting and/or be joined by knotting.
- Twisting and kinking MUST be avoided.
- Twists MUST be removed before applying tension.

**UHMPE D/d**

When D/d ratios in the body are less than 25:1, Lift-It® UHMPE Adjustable Rope Sling Basket Work Load Limits must be reduced. (See Chart).

UHMPE Adjustable Rope Sling basket hitch Work Load Limits are significantly affected by the D/d ratio between the load Diameter and the nominal rope diameter. WLL must be reduced if less than a 25:1 D/d

UHMPE BASKET D/d REDUCTIONS	
D/d	Basket Efficiency Factors
25:1	100%
8:1	82%
5:1	80%
3:1	75%
2:1	72%
1:1	65%





Lift-It® Three and Four Leg PROLINE12™ UHMPE Adjustable Rope Slings feature a Top Lifting Link. Depending upon your selection, based on Work Load, you must determine whether a Masterlink or Masterlink with Subassemblies makes the most sense from a fitting weight perspective. With either option, heavy duty thimbles are attached at the connection points to the Top Lifting Link.

PROLINE12™ UHMPE Adjustable Rope Slings with Top Lifting Links feature hardware that is not only based on the WLL, but also the correct size. We take into account not only the strength requirements, but the spatial relationship between sling attachment points and interfacing hardware.

Generally, Lift-It® Bridle Assembly capacities are lower than our competitors. Three leg capacities are based on 2-1/2 legs, while Four Leg Bridle Assembly capacities are based on three legs carrying the assigned capacity.



Lower capacities and more expensive, larger hardware will never allow us to be the successful, low bidder. Our conservative approach is respected by conscientious users and appreciated by sophisticated purchasers. In this instance, spending more for less provides for increased safety and longer sling service.

Lifts can be made with any two or three legs of the four leg, PROLINE12™ UHMPE Adjustable Rope Sling, if it has a Master Link or Master Link with subassemblies. If three of the four legs are used, the assembly Work Load Limit must be reduced by 33% and is effectively the same as the rating for a two leg (double) sling.





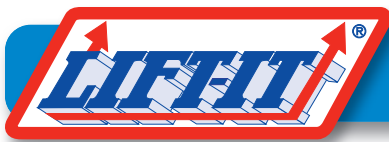
1-1/2" UHMPE 4-leg adjustable bridle rated @ 91,800 Lbs.

**UHMPE THREE LEG – ADJUSTABLE ROPE SLINGS WITH TOP LINK**

ROPE DIAMETER Inches	STOCK NUMBER	WORK LOAD LIMIT (Lbs.)		MASTER LINK			ADJ. RANGE
				DIA.	STOCK NO.	WEIGHT	O.A.L. Inches
5/16	MLB3-EE-ADJ-UHMPE-5/16-52-84-TL	3,890	3,180	3/4"	ML075	2.1	52 – 84
3/8	MLB3-EE-ADJ-UHMPE-3/8-54-96-TL	6,000	4,900	3/4"	ML075	2.1	54 – 96
1/2	MLB3-EE-ADJ-UHMPE-1/2-71-120-TL	10,800	8,800	1"	ML100	4.9	71 – 120
5/8	MLB3-EE-ADJ-UHMPE-5/8-85-133-TL	17,800	14,500	1-1/4"	ML125	9.6	85 – 133
3/4	MLB3-EE-ADJ-UHMPE-3/4-98-146-TL	23,700	19,300	1-1/2"	ML150	16.2	98 – 146
7/8	MLB3-EE-ADJ-UHMPE-7/8-116-164-TL	32,000	26,100	1-3/4"	ML175	25.1	116 – 164
1	MLB3-EE-ADJ-UHMPE-1-129-177-TL	38,100	31,100	1-3/4"	ML175	25.1	129 – 177
1-1/4	MLB3-EE-ADJ-UHMPE-1-1/4-161-209-TL	57,100	46,600	2-1/4"	ML225	54.6	161 – 209
1-1/2	MLB3-EE-ADJ-UHMPE-1-1/2-189-237-TL	76,500	62,500	2-1/2"	AMW2500	67.8	189 – 237
1-3/4	MLB3-EE-ADJ-UHMPE-1-3/4-221-269-TL	108,700	88,800	2-1/2"	AMW2500	67.8	221 – 269
2 In.	MLB3-EE-ADJ-UHMPE-2-250-300-TL	122,900	100,300	2-3/4"	AMW2750	87.7	250 – 300

**UHMPE FOUR LEG – UHMPE ADJUSTABLE ROPE SLINGS WITH TOP LINK**

ROPE DIAMETER	STOCK NUMBER	WORK LOAD LIMIT (Lbs.)		MASTER LINK			ADJ. RANGE
				DIAMETER	STOCK NO.	WEIGHT	O.A.L. Inches
5/16	MLB4-EE-ADJ-UHMPE-5/16-52-84-TL	4,670	3,800	3/4"	ML075	2.1	52-84
3/8	MLB4-EE-ADJ-UHMPE-3/8-54-102-TL	7,200	5,900	3/4"	ML075	2.1	54 – 102
1/2	MLB4-EE-ADJ-UHMPE-1/2-71-120-TL	13,000	10,600	1"	ML100	4.9	71 – 120
5/8	MLB4-EE-ADJ-UHMPE-5/8-85-133-TL	21,300	17,400	1-1/2"	ML150	16.2	85 – 133
3/4	MLB4-EE-ADJ-UHMPE-3/4-98-146-TL	28,400	23,200	1-3/4"	ML175	25.1	98 – 146
7/8	MLB4-EE-ADJ-UHMPE-7/8-116-164-TL	38,400	31,400	2"	ML200	41.0	116 – 164
1	MLB4-EE-ADJ-UHMPE-1-129-177-TL	45,700	37,300	2"	ML200	41.0	129 – 177
1-1/4	MLB4-EE-ADJ-UHMPE-1-1/4-161-209-TL	68,500	55,900	2-1/2"	AMW2500	67.8	161 – 209
1-1/2	MLB4-EE-ADJ-UHMPE-1-1/2-189-237-TL	91,800	74,900	2-1/2"	AMW2500	67.8	189 – 237
1-3/4	MLB4-EE-ADJ-UHMPE-1-3/4-221-269-TL	130,500	106,500	2-3/4"	AMW2750	87.7	221 – 269
2	MLB4-EE-ADJ-UHMPE-2-250-300-TL	147,500	120,400	3"	AMW3000	115.0	250 – 300



# Rope Recovery Product Inspection

**WARNING** REFER TO THE SPECIFIC PRODUCT SAFETY BULLETIN (CURRENT REV) FOR IMPORTANT, ADDITIONAL INSPECTION CRITERIA.

For slings and rigging hardware refer to OSHA, ASME and manufacturer's inspection and removal information.

The use of damaged Recovery Products, slings, rigging hardware and/or protection may result in **SEVERE INJURY** or **DEATH**.

The strength and performance of Recovery Products, slings, rigging hardware and/or protection is affected by use, wear and/or damage. It is critically important that users employ a three stage inspection procedure: Initial, Frequent and Periodic, performed by a qualified person.

If damage is identified during an inspection, damaged items must be **immediately** removed from service and not be returned until approved by a qualified person.

You may have encountered removal from service criteria for specific rope slings and rigging hardware permitting continued use at an acceptable level of wear and/or damage, provided it does not exceed specific limits. Quantifying an acceptable level of loss based on the original size may be difficult, especially in the field. **Always consider the cost of failure and determine if the use of any item with "acceptable levels" of damage is worth the risk, given the potentially damaging and/or deadly consequences.** Always ask yourself, "What's the cost of failure?"

Visual inspection cannot accurately determine the residual strength of Recovery Products, slings, rigging hardware and/or protection. Contact your Lift-It® professional for more information on inspection training. A viable inspection program not only saves lives, but will enable personnel to make informed decisions that will enhance safety and Recovery Product performance.

Read and understand all product and warning information provided in this brochure, included with all products, contained in our catalog, viewed at [www.lift-it.com/product-warnings-and-information](http://www.lift-it.com/product-warnings-and-information) or scan this QR code to link to our product warnings page:

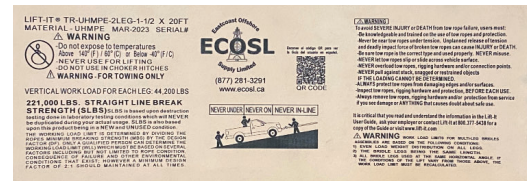


**Always follow OSHA, MSHA, ASME, federal, state, provincial, industry, association, corporate, job site specific, insurance and manufacturer warnings and guidelines.**

## Removal from Service Criteria

The following removal criteria must be used when inspecting Lift-It® Recovery Products. **Immediately** remove from service if any of these conditions are present:

- Missing or illegible Recovery Product identification.
  - Recovery Products must be identified or labeled with the following information:
    - name or trademark of manufacturer, or if repaired, the entity performing repairs
    - manufacturer's code or stock number
    - rated load for at least one hitch type and the angle upon which it is based (i.e., straight-line / vertical)
    - type of fiber material
    - SLBS (Straight Line Break Strength) and Design Factors; 5:1 & 3:1
- Cuts, gouges, areas of extensive fiber breakage along the length and abraded areas on the rope.
- Any damage that is estimated to have reduced the effective diameter of the rope. (What's the cost of failure?)
- Uniform fiber breakage along the major part of the length of the rope such that the entire rope appears covered with fuzz or whiskers.
- Inside the rope, fiber breakage, fused or melted fiber (observed by prying or twisting to open the strands) involving damage of the fiber in any strand or the rope as a whole. (What's the cost of failure?)
- Discoloration, brittle fibers and hard or stiff areas that may indicate chemical damage, ultraviolet damage or heat damage.
- Dirt and grit in the interior of the rope structure.
- Foreign matter that has permeated the rope and makes it difficult to handle and may attract and hold grit.
- Kinks or distortion in the rope structure, particularly if caused by forcibly pulling on loops (known as hockles).
- Melted, hard, or charred areas. (What's the cost of failure?)
- Poor condition of thimbles or other components manifested by corrosion, cracks, distortion, sharp edges, or localized wear.
- Modifications to any item done by someone other than the Original Equipment Manufacturer (OEM) shall not be done.
- Lock Stitch Thread and/or Whipping Thread that is broken, cut or damaged.
- Damaged Eye Splices: Broken Strands at the leg juncture, surface wear in the eye, flattening, and/or splice slippage.
- Other conditions including visible damage that cause doubt as to the continued use of the Recovery Products
- For slings, removal criteria as stated in ASME B30.9.
- For hooks, removal criteria as stated in ASME B30.10.
- For rigging hardware, removal criteria as stated in ASME B30.26.



**Qualified person:** A person, who by possession of a recognized degree or certificate of professional standing in an applicable field, or who, by extensive knowledge, training and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter and work.



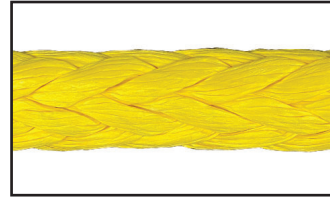
# Rope Recovery Product Inspection



**⚠ WARNING** If you identify any of the following types of damage, **IMMEDIATELY REMOVE RECOVERY / TOW ROPES FROM SERVICE**, even if the damage you see is not as extensive as shown in the following pictures. These are extreme examples provided only for illustration purposes. Recovery Products, slings and rigging hardware must be inspected according to OSHA, ASME and manufacturer's information. Any damage detected in the Recovery Product cover or protection may also indicate potential damage to the Recovery / Tow Rope. **Remember, any doubt, DON'T!** Any hazardous condition detected in slings, rigging hardware, and/or sleeves during inspection must lead to further investigation, possible replacement and/or corrective action by a Qualified Person.



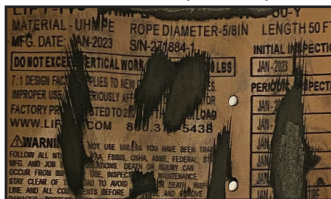
Internal abrasion may be determined by pulling one strand away from other strands to inspect for powder, broken filaments or volume reduction.



Like New External



Like New Internal



Illegible Tag



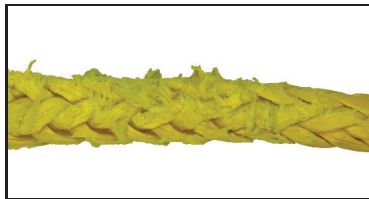
Cuts



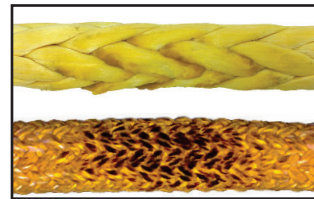
Excessive External Abrasion



Excessive Internal Abrasion



Excessive Wear & Abrasion



Heat Damage - Melting/Charring



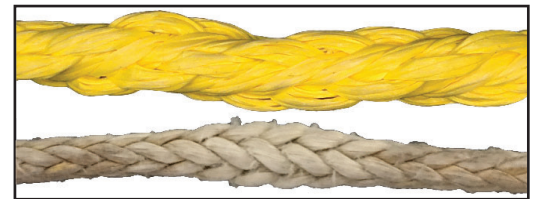
Fiber Breakage



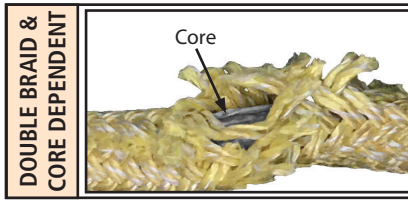
Excessive Dirt/Grit



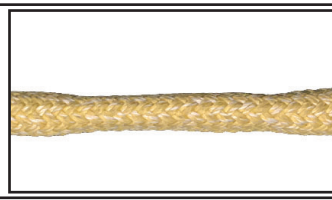
Discoloration



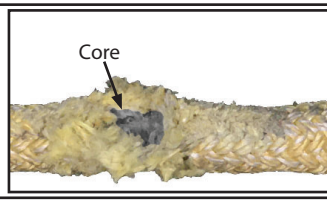
Other Conditions That Cause Doubt.



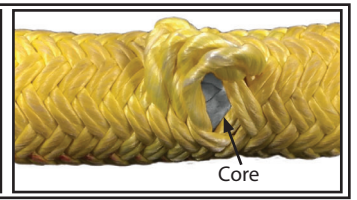
Cover Cuts - Exposed Core



Inconsistent Diameter/Volume Reduction

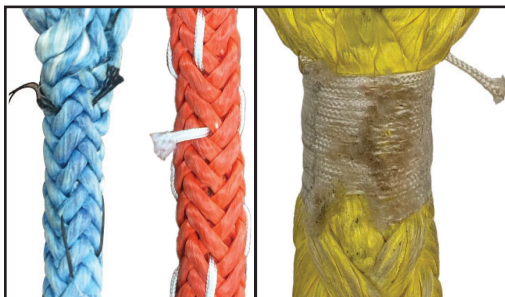


Localized Abrasion - Exposed Core



Double-Braid: Snagged Strand on Cover

## Lock Stitching & Whipping



Broken Lock Stitching

Damaged Whipping

## Soft Shackles



Illegible Tag



Cuts



Damage to the Knot

Lift-It® Soft Shackles must be inspected to the same removal criteria as Recovery Ropes, with the additional requirement that the portion of the rope that forms the Noose must be pulled out enough to facilitate proper inspection of 100% of the Rope Body.