HIGH-PERFORMANCE ROUNDSLINGS

The solution for lifting the heaviest loads using the lightest, most flexible, and ergonomic slings available!

Promotes Safety

- *Lift-All* slings with high-performance core fibers are ergonomically engineered providing the lightest sling weight to lifting capacity ratio of our product line. This ergonomic solution reduces rigger fatigue and injury.
- Non-blended core fibers provide more consistent sling performance.
- Low stretch (1%) is especially helpful when working in low headroom areas.
- Double-wall *Tufhide*™ jacket is abrasion resistant, protecting the core fibers from wear and degradation from UV light.
- Flexible, conforms to the shape of load.
- Consistent matched lengths for better multiple sling control.
- *Tuff-Tag*™ provides serial numbered identification for traceability of manufacturing components and process.
- *Lift-All* maintains the same design criteria for the entire product line, and does not lower design requirements for roundslings rated above 100,000 lbs.

Temperature

- ***KeyFlex***™ slings are approved for use up to 350°F.
- ***DynaFlex***™ slings are approved for use up to 158°F.

Saves Time

- Independent core yarns choke tightly but release easily after use.
- The single component round body profile makes for faster rigging, avoiding any need to keep the sling body flat.
- Round bearing surface makes for easier hook-up to connection point.
- Meet capacity requirements with a smaller diameter sling to fit more easily into tight work areas.

Saves Money

- Roundslings with damaged outer covers may be returned for inspection and possible cover repair and proof-test.
- Double-wall seamless cover has no sewn edges preventing rupture, which requires removal from service.
- Endless style allows wear points to be shifted extending sling life.

Environmental Considerations

- **Chemical:** Do not use in a non-compatible chemical environment. For confirmation, contact *Lift-All* and provide specific chemical, concentration, temperature, and time factors.

The *Lift-All* Difference

The *Lift-All* Difference - Why compromise work safety? Here's why all high-performance roundslings are not the same:

- **Load-Bearing Core Yarn:** Non-blended core fibers provide more consistent sling performance, regardless of the application.
- **Verified Strength:** *Lift-All* regularly completes strength verification of all sizes of roundslings using test pins that are smaller than required by the industry to represent actual loading conditions more closely.
- **Single Path Core is Our Standard:** Our single path round design fits naturally in narrow, rounded bearing surfaces of connection hardware. We designed our high-performance roundslings with the understanding of how the sling is used in the field. This is validated during strength verification testing.
- **The Cover Sleeve:** Roundslings are typically removed from service due to cover wear. *Lift-All*'s design contains a durable, double layer cover that offers rotational benefits for even wear and ease of feeding through connections.

* **⚠ WARNING** Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog. **Always protect synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog.**

HIGH-PERFORMANCE ROUNDSLINGS

Ordering Information

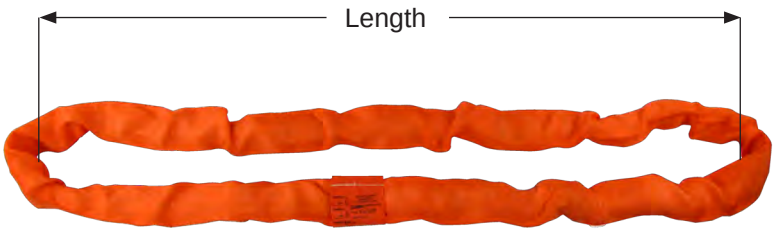
Specify the sling code and length in feet (bearing point to bearing point).

Slings are made to a tolerance of ± 1"+1% of the specified length, and can stretch 1% at rated capacity.

Notes:

1. Matched lengths of slings must be specified at time of order.
2. Available in endless style only.
3. Not to be used in a towing application.

How to Measure

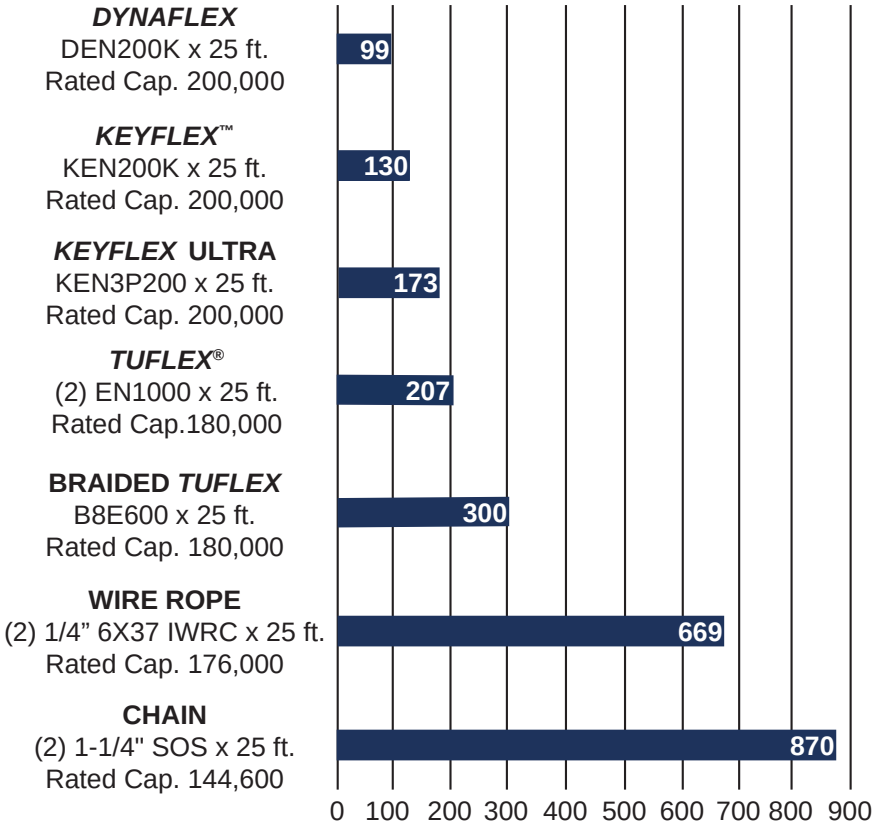


DYNAFLEX™ ROUNDSLING

Dyneema® High-Performance Core Ultra-Lightweight Roundsling

DynaFlex is manufactured with a load-bearing core of *Dyneema,* the world's strongest fiber, yet remains soft and flexible to allow for easy rigging. This high-capacity, ultra-lightweight roundsling is a safe and ergonomic alternative to steel and other forms of synthetic slings.

Approximate Sling Weight in lbs.



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DYNAFLEX™ ROUNDSLINGS

Features and Benefits

- **Ultra-Lightweight** – Approximately 20% lighter than *KeyFlex*™ and 52% lighter than *Tuflex*® for the same capacity, reducing the probabilities of hand and shoulder strains and sprains.
- **Good Chemical Resistance with Reduced Water Absorption** – A 10' *DynaFlex* sling will increase 6 pounds in water weight when rigged wet vs. 13 pounds for the same capacity and length *Tuflex* roundsling. Users will appreciate the weight reduction, minimizing rigger fatigue and increasing safety.
- **Neutral Buoyancy** – *DynaFlex* slings are a great choice for water recovery and lifting applications.
- **100% *Dyneema* Core (non-blended)** – We use the most advanced high tenacity fiber on the market for lifting slings. The homogeneous core fiber reacts uniformly regardless of lift application. Designed with your safety in mind.
- ***DynaFlex* Single Component Twisted Core** – Single path design allows higher strength retention around common rigging hardware. This saves time during hook up to the connection point and rigging vs. dual path slings. No need to worry about sling body orientation.
- **Promotes Safety** – Customized designs are available, including higher capacity and/or shorter length versions.

Note: *DynaFlex* slings are approved for use up to 158°F.

Scan and learn more about *Lift-All*'s *DynaFlex* Roundslings.

DynaFlex Capacities and Measurements

Part Number	Rated Capacity (lbs.)*				Min. Length (ft.)	Approximate Measurements				
	Vertical 	Choker 	Basket @ 90° 	Basket @ 45° 		Wt. (lbs./ ft.)	Body Dia. Relaxed (in.)	Contact Width (in.)	Min. Hardware Dia. (in.)	Min. Edge Contact Radius (in.)
DEN10K	10,000	8,000	20,000	14,100	2	0.25	1.00	1.56	0.69	0.23
DEN15K	15,000	12,000	30,000	21,000	3	0.38	1.13	1.75	0.88	0.31
DEN20K	20,000	16,000	40,000	28,000	3	0.44	1.25	2.00	1.06	0.37
DEN25K	25,000	20,000	50,000	35,000	3	0.54	1.25	2.13	1.25	0.47
DEN30K	30,000	24,000	60,000	42,000	3	0.66	1.38	2.13	1.44	0.50
DEN40K	40,000	32,000	80,000	56,000	3	0.79	1.75	2.75	1.50	0.53
DEN50K	50,000	40,000	100,000	70,000	5	1.16	1.88	2.88	1.75	0.62
DEN60K	60,000	48,000	120,000	84,000	5	1.31	2.00	3.13	2.00	0.69
DEN70K	70,000	56,000	140,000	98,000	8	1.47	2.13	3.25	2.19	0.76
DEN80K	80,000	64,000	160,000	113,000	8	1.59	2.25	3.50	2.38	0.82
DEN90K	90,000	72,000	180,000	127,000	8	1.94	2.50	3.88	2.38	0.83
DEN100K	100,000	80,000	200,000	141,000	8	2.06	2.75	4.25	2.50	0.84
DEN125K	125,000	100,000	250,000	176,000	8	2.60	3.00	4.88	2.63	0.92
DEN150K	150,000	120,000	300,000	210,000	8	3.24	3.25	5.25	2.88	1.00
DEN175K	175,000	140,000	350,000	240,000	8	3.51	3.50	5.75	3.13	1.10
DEN200K	200,000	160,000	400,000	280,000	8	3.90	3.75	6.13	3.38	1.18

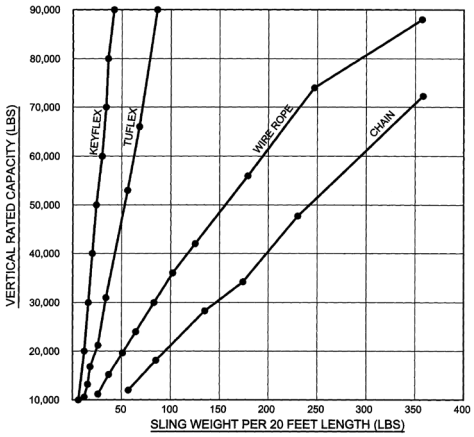
* **⚠ WARNING** Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the General Information section of this catalog. **Always protect synthetic slings from being cut by corners and edges. See the Sling Protection section in this catalog.**

KEYFLEX™ ROUNDSLINGS

with *Technora*® core

KeyFlex Benefits:

- Low weight per capacity reduces risk of injury to riggers.
- Great for low headroom situations.
- 1% stretch at rated capacity reduces abrasion and allows for better load control.
- *KeyFlex* with aramid load fiber is approved for use **up to 350°F.**
- Lightweight and compact size promote speedier rigging, transport and storage when compared to any other type of sling.



The chart plots the weights of 20 ft. slings at various capacities.

Sling Weight Per 20 ft. Length (lbs.)		
Sling Type	**Vertical Rating (lbs.)**	**Sling Weight (lbs.)**
KeyFlex	90,000	48
Tuflex®	90,000	86
Wire Rope	88,000	357
Chain	72,300	358

KeyFlex Capacities and Measurements

Part Number	Rated Capacity (lbs.)*				Min. Length (ft.)	Approximate Measurements				
	Vertical	Choker	Basket @ 90°	Basket @ 45°		Wt. (lbs / ft.)	Body Dia. Relaxed (in.)	Contact Width (in.)	Min. Hardware Diameter (in.)	Min. Edge Contact Radius (in.)
KEN10K	10,000	8,000	20,000	14,100	3	0.3	1.00	1.56	0.69	0.23
KEN15K	15,000	12,000	30,000	21,000	3	0.5	1.13	1.75	0.88	0.31
KEN20K	20,000	16,000	40,000	28,000	3	0.6	1.25	2.00	1.06	0.37
KEN25K	25,000	20,000	50,000	35,000	3	0.7	1.25	2.13	1.25	0.47
KEN30K	30,000	24,000	60,000	42,000	3	0.8	1.38	2.13	1.44	0.50
KEN40K	40,000	32,000	80,000	56,000	3	1.0	1.75	2.75	1.50	0.53
KEN50K	50,000	40,000	100,000	70,000	5	1.3	1.88	2.88	1.75	0.62
KEN60K	60,000	48,000	120,000	84,000	5	1.7	2.00	3.13	2.00	0.69
KEN70K	70,000	56,000	140,000	98,000	8	1.9	2.13	3.25	2.19	0.76
KEN80K	80,000	64,000	160,000	113,000	8	2.1	2.25	3.50	2.38	0.82
KEN90K	90,000	72,000	180,000	127,000	8	2.4	2.50	3.88	2.38	0.83
KEN100K	100,000	80,000	200,000	141,000	8	2.6	2.75	4.25	2.50	0.84
KEN125K	125,000	100,000	250,000	176,000	8	3.0	3.00	4.88	2.63	0.92
KEN150K	150,000	120,000	300,000	210,000	8	3.5	3.25	5.25	2.88	1.00
KEN175K	175,000	140,000	350,000	240,000	8	4.8	3.50	5.75	3.13	1.10
KEN200K	200,000	160,000	400,000	280,000	8	5.3	3.75	6.13	3.38	1.18

Available in higher capacity and/or shorter length versions.

***Technora* is a registered trademark of Teijin LTD.**

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KEYFLEX™ ULTRA ROUNDSLINGS

The Higher Capacity *KeyFlex* Roundsling

- **High Capacities**: Up to 1/2 million pounds in a vertical hitch, or 1 million pounds in a basket hitch.
- ***KeyFlex* Ultra** is 87% lighter than comparable capacity wire rope slings. This makes it easier to handle, and safer for workers to use.
- **High Value**: You get the *Lift-All* quality you expect which exceeds industry standards at a competitive price.
- **Extra Utility**: ***KeyFlex* Ultra** roundslings can be returned to *Lift-All* for disassembly, inspection, and re-tagging as individual slings.
- **Repairable**: The outer cover can be replaced.

- **Rugged Construction**: Our best 4-ply *Tufhide*™ nylon jacket covers three individual ***KeyFlex*** roundslings with *Technora*® core.

Part Number	Rated Capacity (lbs.)*			
	Vertical	Choker	Basket @ 90°	Basket @ 45°
KEN3P200	200,000	160,000	400,000	280,000
KEN3P250	250,000	200,000	500,000	350,000
KEN3P300	300,000	240,000	600,000	420,000
KEN3P400	400,000	320,000	800,000	560,000
KEN3P500	500,000	400,000	1,000,000	700,000

Available in lengths up to 79 feet

Part Number	Component Sling Size	Min. Sling Length (ft.)	Weight Per Foot (lbs.)	Body Dia. Relaxed (in.)	Contact Width (in.)	Min. Edge Contact Radius (in.)	Min. Hardware Dia. (in.)
KEN3P200	KEN80K	10	6.9	3.88	6.25	1.13	3.25
KEN3P250	KEN100K	12	8.6	4.75	7.75	1.25	3.25
KEN3P300	KEN125K	14	9.9	5.50	9.00	1.25	3.50
KEN3P400	KEN150K	15	15.8	6.00	10.50	1.50	4.25
KEN3P500	KEN200K	17	17.5	6.75	11.00	1.63	4.63

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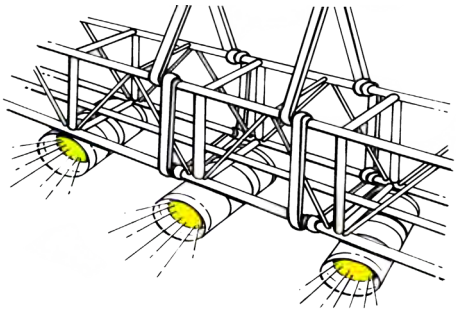
STEELFLEX™ ROUNDSLINGS

THE STEEL SLING WITH THE FABRIC FEEL



Designed for suspension applications

With safety being of the utmost importance in overhead suspension, *Lift-All's SteelFlex* roundslings combine flexibility, strength and heat resistance (400°F) with the soft feel of fabric to meet your most demanding suspension requirements.

SteelFlex roundslings feature steel galvanized aircraft cable wound in an endless configuration.This wire core is encased in a black double-wall, polyester jacket. A unique inspection window allows for easy inspection of the core for broken wires and corrosion. The result is a highly flexible, easy to use sling that complies with all of the current rigging codes. Stretch at rated capacity is approximately 1%.

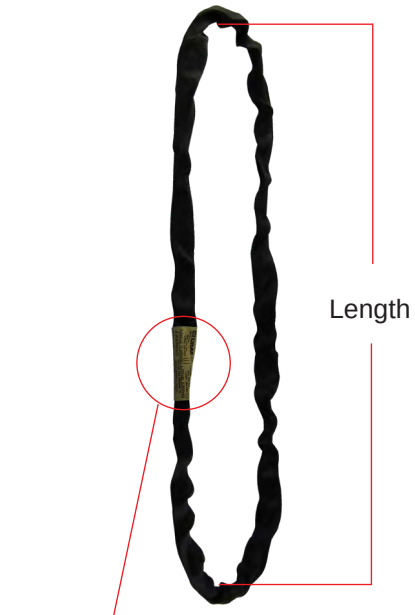
Features and Benefits

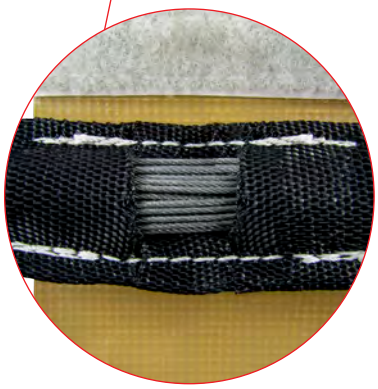
- Black cover for stage rigging applications.
- No backup rigging required.
- Standard engineered window allows for core inspection.
- Superior flexibility makes rigging easy.
- Conforms to the load to grip securely.
- Superior cut resistance.
- 400°F Temperature Rating

Part Numbers	Weight per ft. (lbs.)	Rated Capacity (lbs.) Vertical	Choker	Basket	Min. Hardware Dia. (in.)
GACEN60CX18IN	0.75	5,300	4,200	10,600	0.625
GACEN60CX2					
GACEN60X3					
GACEN60X4					
GACEN60X5					
GACEN60X6					
GACEN60X7					
GACEN60X8					
GACEN60X9					
GACEN60X10					
GACEN60X11					
GACEN60X12					

Note: Maximum length for *SteelFlex* is 12 ft.
Sling lengths under 3 ft. use a modified construction and do not have a seamless cover.

How To Measure



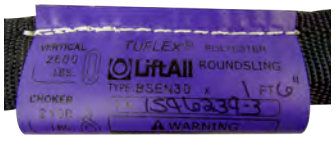


Inspection Window

BLACK STAGE SLINGS

These lightweight roundslings are ideal for easy and inconspicuous suspension of stage sound and lighting equipment. Black sleeve material helps the sling blend into the surroundings. *Lift-All* stage slings include all of the *Tuflex*® features and benefits except that the color coding of the slings is achieved by using a color-coded identification tag. Double-wall sleeve material is standard.

Part Number	Color of Tags	Rated Capacity (lbs.)* Vertical	Choker	Basket	Min. Length (ft.)	Approximate Measurements Weight (lbs./ ft.)	Body Dia. Relaxed (in.)	Contact Width (in.)	Min. Hardware Dia. (in.)
BSEN30	Purple	2,600	2,100	5,200	1-1/2	0.2	5/8	1-1/8	7/16
BSEN60	Green	5,300	4,200	10,600	1-1/2	0.3	7/8	1-1/2	5/8
BSEN90	Yellow	8,400	6,700	16,800	3	0.4	1-1/8	1-7/8	3/4



TUFLEX WIDE-LIFT

Wide Load Support and Balance

Tuflex Wide-Lift slings distribute the load over a wide area and offer better balance of larger loads, whether heavy or light.

Features and Benefits

Maintains all the basic *Tuflex* features plus...

Promotes Safety

- Wide body distributes load over wide area and offers improved stability.

Saves Money

- Bearing point of eyes can be shifted to prolong sling life.
- Custom sizes available to fit your needs.

Saves Time

- Standard eye length is 12", making hook-up easy and fast.
- Standard body width is 12", making load balancing easier.

Note:
Wide-lift slings should only be used in basket hitch.

Consult *Lift-All* for special requirements.

Code	Color of Eyes	Vertical Basket Hitch Rated Capacity* (lbs.)
WLEN30	Purple	5,200
WLEN60	Green	10,600
WLEN90	Yellow	16,800
WLEN120	Tan	21,200

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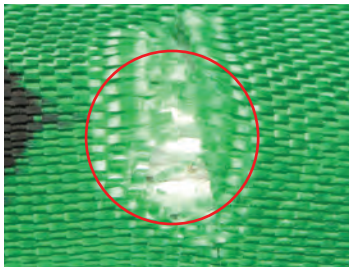
ROUNDSLING INSPECTION CRITERIA

The following photos illustrate some of the damage that occurs and indicates the sling must be taken out of service. For inspection frequency requirements, see the General Information section in this catalog.

Cuts to the Cover
(Internal Core Yarns Exposed)



WHAT TO LOOK FOR
Broken fibers of equal length indicate that the sling has been cut. When core yarns are exposed, the damage to the yarns cannot be determined. The sling must be taken out of service or inspected by a *Lift-All* expert.

TO PREVENT
Always protect synthetic slings from being cut by using cut protection.

SUGGESTED *LIFT-ALL* PRODUCT: *Edge Defender*™
See the Sling Protection section in this catalog for more sling protection options.

Cuts to the Cover
(Internal Core Yarns NOT Exposed)

WHAT TO LOOK FOR
The double-walled jacket protects the inner core yarns from damage. If the damage appears only to the outer jacket and does not expose the inner core yarns, the sling may remain in service (except chemical or heat damage). The sling may also be returned to *Lift-All* for inspection and repair to the jacket.

TO PREVENT
Use the appropriate sling protection between the sling and all edges that come in contact with the sling.

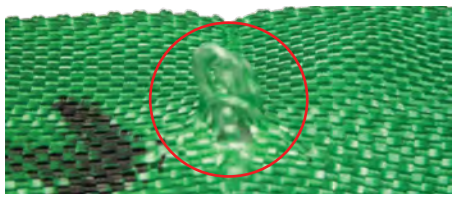
SUGGESTED *LIFT-ALL* PRODUCT: Wear Pad
See the Sling Protection section in this catalog for more sling protection options.

Holes, Snags, or Pulls

WHAT TO LOOK FOR
Punctures or areas where fibers stand out from the rest of the sling surface. Inspect the sling and remove from service if core yarn is exposed.

TO PREVENT
Avoid sling contact with protrusions, both during lifts and while transporting or storing.

SUGGESTED *LIFT-ALL* PRODUCT: Wear Pad
See the Sling Protection section in this catalog for more sling protection options.



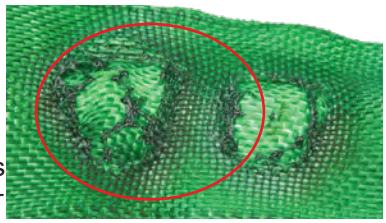
Knots

WHAT TO LOOK FOR
Knots compromise the strength of slings by not allowing all fibers to contribute to the lift as designed. Knots are rather obvious problems as shown here.

TO PREVENT
Never tie knots in slings.

ROUNDSLING INSPECTION CRITERIA

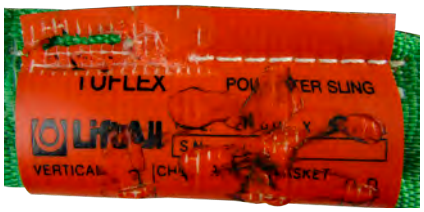
Heat / Chemical



WHAT TO LOOK FOR
Melted or charred fibers anywhere along the sling. Heat and chemical damage look similar and can damage sling fibers, compromising the sling's strength. Look for discoloration and/or fibers that have been fused together and may feel hard or crunchy. Slings showing heat or chemical damage must be removed from service.

TO PREVENT
Never use *Tuflex* roundslings where they can be exposed to temperatures in excess of 200°F, or around chemicals without confirming that the sling material is compatible with the chemicals being used. For elevated temperatures up to 350°F, use *KeyFlex* roundslings.

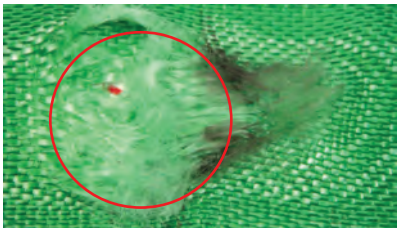
Illegible or Missing Tags



WHAT TO LOOK FOR
The information provided on the sling tag is important for knowing what sling to use and how it will function. If you cannot find or read all of the information on a sling tag, the sling must be taken out of service.

TO PREVENT
Never set loads down on top of slings or pull slings from beneath loads if there is any resistance. Load edges should never contact sling tags during the lift. Avoid paint or chemical contact with tags.

Abrasion



WHAT TO LOOK FOR
Areas of the sling that look and feel fuzzy indicate that the fibers have been broken by contact and movement against a rough surface. Affected areas are usually discolored. Inspect sling and remove from service if core yarn is exposed.

TO PREVENT
Never drag slings along the ground. Never pull slings from under loads that are resting on the sling. Use wear protection between slings and rough surface loads.

SUGGESTED *LIFT-ALL* PRODUCT: Wear Pad
See the Sling Protection section in this catalog for more sling protection options.

Scan and learn more about synthetic sling inspection criteria.