



THE TUFLEX® DIFFERENCE

All Lift-All slings meet or exceed OSHA and ASME B30.9 standards and regulations.

What is a Tuflex Roundsling?

A Tuflex roundsling is an endless synthetic sling made from a skein of polyester yarn covered by a double-wall tubular jacket. The roundsling body can be compared to sling webbing with the tubular jacket face yarns woven without binder yarns. This allows the core yarns to move independently within the jacket.

Tufhide[™] Jacket on EN360 and Larger Slings

The double-wall Tufhide jacket (made from bulked nylon fibers) offers better abrasion resistance for our larger capacity Tuflex roundslings. Additionally, Tufhide reduces the heat buildup that can damage other high capacity roundslings when used in a choker hitch.

Features and Benefits

Promotes Safety

- Lightweight to reduce fatigue and strain on riggers.
- Synthetic materials will not cut hands.
- Consistent matched lengths for better multiple sling load control.
- No loss of capacity from abrasive wear to the cover.
- Tuff-Tag provides serial numbered identification for traceability.
- Low stretch (about 3% at rated capacity).
- Synthetic web resists marring of the load.
- Good for low headroom lifts.
- Extremely flexible, conforms to shape of load to grip securely.
- Tubular jacket protects load bearing yarns from UV degradation.
- Red core yarns provide added visual warning of sling damage.
- Color-coding provides positive sling capacity information.

Saves Money

- Double-wall cover for greater sling life.
- The soft cover will not scratch the load surface.
- Conforms to shape of the load for reduced load damage.
- The cover is seamless with no sewn edges, preventing rupture which requires removal from service.
- EN360 and larger Tuflex roundslings feature Tufhide wear-resistant nylon jacket for extra sling life.
- Tuff-Tag provides required OSHA information for the life of the sling.

Saves Time

- Color-coded capacities for quick identification.
- Lightweight and pliable for easy rigging and storage.
- Independent core yarns choke tightly but release easily after use.
- Easy to store and carry.

Always protect synthetic slings from being cut or damaged by corners, edges and protrusions by using protection sufficient for each application.



Refer to Sling Protection section in this catalog.

Follow temperature and chemical information located in the Web section of this catalog.

Round

Protection Sling

Rope

Chain Slings

Rigging Hardware

Slings Mesh

Load

To≷

Hoists Lift-All

Clamp **Plate**

Devices Lifting

Wire



CONSTRUCTION COMPARISONS

Tuflex[®] versus Sling Webbing

Tuflex

- Transverse pick yarns position surface yarns and protects core yarns.
- Woven surface yarns protect core yarns but carry no load.
- Longitudinal core yarns carry 100% of load.
- Red core warning yarns.

Roundsling construction (as shown above) protects all load carrying core yarns from abrasion with an independent, woven jacket. Replacement is not necessary until the red or white core yarns can be seen through holes in the jacket. When core yarns are visible, the sling must be removed from service. Tuflex roundslings provide double-wall protection for extended sling life.

Sling Webbing

- Transverse pick yarns inter-relate with binder yarns.
- Woven surface yarns cover each side and carry a portion of the load.
- Strip of longitudinal core yarns bears the majority of the load.
- Binder yarns secure the surface yarns to web core yarns.
- Red core warning yarns.

Sling webbing (as graphically demonstrated) has its surface yarns connected from side to side to not only protect the core varns but to position all surface and tensile varns to work together to support the load. Wear or damage to sling webbing face yarns cause an immediate strength loss. This is the reason why sling webbing has red core varns to visually reveal damage and act as a basis for sling rejection.

HOW TO ORDER

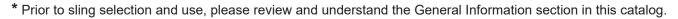
- 1. Specify sling part number found in the charts throughout the *Tuflex* section.
- 2. Specify sling length in feet (bearing point to bearing point). Refer to footnotes under Tuflex tables for specific sling lengths and tolerances.
- 3. Matched lengths of slings must be specified at time of order.

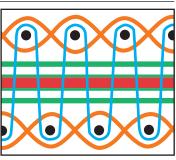
TOLERANCES FOR ENDLESS ROUNDSLINGS

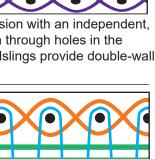
The following sling length tolerances apply to roundslings when new, at the time of final manufacture. Standard Length Tolerance - Endless and Eye & Eye style Roundslings should be made in conformance with the length tolerance values listed in the table below. Matched Set Length Tolerance – When multiple legs of a bridle sling are made, or when multiple slings are prescribed to be made within a Matched Set Tolerance, their length variance from their nominal length shall remain within a dimension equal to one-half of their corresponding Standard Length Tolerance Values listed in the table below.

Braided Tuflex length tolerance is ± (2" + 5% of the ordered length with sling at rest). At its rated capacity, braided Tuflex will stretch approximately 9%.

Roundsling Size / Vertical Capacity Range	Tolerance*
30,000 lbs. or Less	± (1" + 1% of sling length)
Higher than 30,000 lbs., up to 90,000 lbs.	± (2" + 1% of sling length)
Higher than 90,000 lbs., up to 175,000 lbs.	± (3.0" + 1% of sling length)
Higher than 175,000 lbs.	± (Sling Body Diameter + 1% of sling length)







General formation

Web

Slings

Round Slings

Protection

Rope Wire

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Huggers Products

Hoists Lift-All

Rings Hoist

Clamps Plate

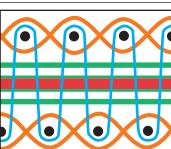
Lifting

Sling



Tuflex

(Side View)







USING TUFLEX® ROUNDSLINGS

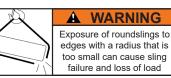
Protect Sling from Damage

ALWAYS protect roundslings from being cut or damaged by corners, edges and protrusions using protection sufficient for each application.

Do not ignore warning signs of misuse. Cut marks detected during any sling inspection serve as a clear indication that cut protection is needed. Refer to Sling Protection section of our catalog.

Exposure of Slings to Edges

Edges do not need to be sharp to cause failure of the sling. The following table



shows the minimum allowable edge radii suitable for contact with unprotected roundslings.

Chamfering or cutting off edges is not an acceptable substitute for fully rounding the edges to the minimum radius. Slings can also be damaged from contact with edges or burrs at the sling connection.

Μ ra b



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adius is equal to the distance	
etween points A and B.	

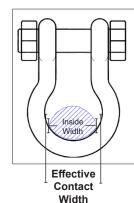
Unprotected Polyester Roundslings										
Rated Capacity Vertical (Ibs.)	Minimum* Edge Radii (in.)	Sling Width @ Load (in.)								
EN30	0.14	1.00								
EN60	0.21	1.38								
EN90	0.26	1.75								
EN120	0.30	1.88								
EN150	0.33	2.00								
EN180	0.40	2.13								
EN240	0.41	2.63								
EN280	0.44	3.00								
EN360	0.50	3.25								
EN460	0.56	3.75								
EN600	0.67	4.00								
EN800	0.72	4.63								
EN900	0.80	5.00								
EN1000	0.87	5.25								
EN1100	0.92	5.50								

WSTDA-RS-1.

Sling Hardware and Connections

Connection surfaces must be smooth to avoid abrading or cutting slings. Roundslings can be damaged or weakened by excessive compression between the sling and the connection points. Select and use proper connection hardware that conforms to the size requirements listed for choker, vertical, or basket hitches in the charts below.

Contact Lift-All (or see WSTDA-RS-1), for information about how to calculate whether a smaller connection size is allowable when tension on a roundsling is less than its capacity.







Single Part (Vertical)

Minimum Hardware Dimensions Suitable 10/11/1 7 01

Double Part (Basket)**

	For Use With <i>Tuflex</i> Roundslings												
	Single	e Part	Double	e Part**									
<i>Tuflex</i> Size	Minimum Stock Diameter (in.)	Minimum Contact Width (in.)	Minimum Stock Diameter (in.)	Minimum Contact Width (in.)									
EN30	0.44	1.00	0.57	1.38									
EN60	0.63	1.38	0.88	1.88									
EN90	0.75	1.75	1.06	2.38									
EN120	0.88	1.88	1.25	2.50									
EN150	1.00	2.00	1.38	2.88									
EN180	1.13	2.13	1.63	3.00									
EN240	1.19	2.63	1.63	3.75									
EN280	1.25	3.00	1.88	4.25									
EN360	1.50	3.25	2.00	4.50									
EN460	1.62	3.75	2.38	5.25									
EN600	2.00	4.00	2.75	5.63									
EN800	2.13	4.63	3.00	6.50									
EN900	2.25	5.00	3.25	7.00									
EN1000	2.50	5.25	3.50	7.38									
EN1100	2.62	5.5	3.75	8.00									

** For hardware connected to the body of Eye/Eye Tuflex Roundslings, use the double part columns.

For Temperature and Chemical Information refer to the Environmental Consideration page in the WEB section of this catalog.

Slings Web

> Round Slings

> > Protection

Rope Wire

Chain Slinds

Rigging Hardware

Mesh

Load

Lift-All Hoists

Plate

Lifting

Sling



General

Web Slings

Round Slings

> Sling Protection

> Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

Tow Products

Hoists

Plate Clamps

Lifting

.ift-A

DIRECT CONNECT HOOKS

Direct Connect hooks are the quickest and easiest way to add hooks to *Tuflex*[®] roundslings and web slings at your job site. No tools or extra parts are needed.

For *Tuflex* slings, just match the color-coded hook to the same color *Tuflex* sling, and you're ready to go. Rated capacities are the same for both the hook and the *Tuflex* roundsling.

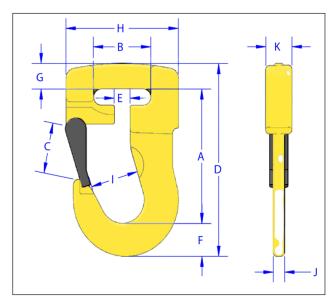
Features and Benefits

- Rugged: The alloy steel hook and latch are forged for superior toughness.
- Color-coded hook matches *Tuflex* color and capacity.
- Web-Trap[™] design keeps sling in place, ready to use.
- Four hook sizes to match *Tuflex* sizes EN30 (Purple), EN60 (Green), EN90 (Yellow) and EN150 (Red).
- Can be used with 1" and 2" web slings.
- Quick connections with no tools needed.
- Increases the life of the sling by reducing wear at the bearing point.

Part	Rated			Web S	lings	А	в	с	D	Е	F	G	н		J	к	Weight
No.*	Color	Capacity (lbs.)	Tuflex	Width	Plies	(in.)	(lbs.)										
DCH1	Purple	2,600	EN30	1	1	3.38	1.56	0.91	4.84	0.47	0.81	.67	3.07	1.22	0.70	1.13	1.54
DCH2	Green	5,300	EN60	1	2	4.00	1.75	1.28	5.83	0.75	1.07	.83	3.58	1.57	0.88	1.39	2.65
DCH3	Yellow	8,400	EN90	2	1 & 2	4.63	2.13	1.40	6.89	0.83	1.26	.98	4.45	1.97	1.00	1.76	4.85
DCH4	Red	13,200	EN150	_	—	5.75	2.34	1.83	8.78	1.63	1.60	1.42	5.21	2.34	1.23	2.21	9.90

* Add an 'L' to end of part number to order replacement latch.





Promotes Safety

Saves Money

Features and Benefits

spreading sling legs.

The most flexible style of sling.

appropriate hardware (see photo).

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

Load stability and balance can be achieved by

Wear points can be shifted to extend sling life.

How To Measure

Length

Polyester Roundslings

Information General Web Slings Round

- Slings
- Sling Protection
- Wire Rope
- Chain Slings
- Rigging Hardware
- **Mesh** Slings
- Load
- To⊌
- Hoists Lift-All
- Plate Clamps Lifting Devices



	Tuflex Endless Roundslings												
				Rated Ca	pacity* (lbs.)			Approximate Measurements					
			Vertical	Choker	Basket @ 90°	Basket @ 45°			Padu	Badu	Minimum		
Part Number	Coloi	-	U	\bigcirc	U		Minimum Length (ft.)	Weight (Ibs./ft.) (ft.)	Body Diameter Relaxed (in.)	Body Width @ Load (W) (in.)	Hardware Dia.** (in.)		
EN30	Purple		2,600	2,100	5,200	3,600	1.5	0.20	0.63	1.00	0.44		
EN60	Green		5,300	4,200	10,600	7,400	1.5	0.30	0.88	1.38	0.63		
EN90	Yellow		8,400	6,700	16,800	11,800	1.5	0.52	1.13	1.75	0.75		
EN120	Tan		10,600	8,500	21,200	14,000	2.0	0.60	1.13	1.88	0.88		
EN150	Red		13,200	10,600	26,400	18,000	2.0	0.76	1.38	2.00	1.00		
EN180	White		16,800	13,400	33,600	23,000	3.0	0.87	1.38	2.13	1.13		
EN240	Blue		21,200	17,000	42,400	29,000	3.0	1.10	1.75	2.63	1.19		
EN280	Orange		25,000	20,000	50,000	35,000	3.0	1.25	1.87	3.00	1.25		
EN360	Gray		31,000	24,800	62,000	43,000	3.0	1.70	2.25	3.25	1.50		
EN460	Orange		40,000	32,000	80,000	56,000	3.0	2.30	2.50	3.75	1.62		
EN600	Brown		53,000	42,400	106,000	74,000	8.0	2.90	2.75	4.00	2.00		
EN800	Olive		66,000	52,800	132,000	93,000	8.0	3.40	3.13	4.63	2.13		
EN900	Orange		77,000	61,600	154,000	108,000	8.0	3.90	3.42	5.00	2.25		
EN1000	Black		90,000	72,000	180,000	127,000	8.0	4.40	3.63	5.25	2.50		
EN1100	Orange		100,000	80,000	200,000	140,000	8.0	4.80	4.10	5.50	2.62		

** This is the minimum recommended diameter for the connection hardware to be used for a vertical hitch.



Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

TUFLEX® EYE AND EYE

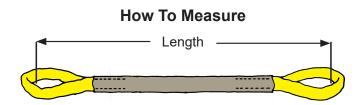
A More Rugged and Durable *Tuflex* Roundsling

The Eye and Eye Advantage

An additional jacket of texturized, abrasion resistant nylon covers the Tuflex body forming two color-coded lifting eyes.

Maintains all the basic Tuflex features plus...

Saves money by extending sling life in abrasive environments.





		Τι	uflex l	Eye/E	ye Ro	unds	lings					
			Rated Cap	acity (lbs.)*			Approximate Measurements					
		Vertical	Choker	Basket @ 90°	Basket @ 45°	Minimum Length⁺ (ft.)	Weight (Ibs./ft.) (ft.)	Body Width @ Load (W) (in.)	Standard Eye Length (EL) (in.)	Minimum Hardware Dia** (in.)		
Purple		2,600	2,100	5,200	3,600	4	0.25	2.25	10	0.44		
Green		5,300	4,200	10,600	7,400	4	0.35	2.50	10	0.63		
Yellow		8,400	6,700	16,800	11,800	4	0.55	2.50	12	0.75		
Tan		10,600	8,500	21,200	14,000	5	0.66	3.50	12	0.88		
Red		13,200	10,600	26,400	18,000	5	0.81	3.50	14	1.00		
White		16,800	13.400	33,600	23,000	7	0.93	3.50	16	1.13		
Blue		21,200	17,000	42,400	29,000	7	1.20	3.50	16	1.19		
Orange		25,000	20,000	50,000	35,000	7	1.30	4.25	18	1.25		
Gray		31,000	24,800	62,000	43,000	7	1.75	4.50	20	1.50		
Orange		40,000	32,000	80,000	56,000	7	2.35	6.00	22	1.62		
Brown		53,000	42,400	106,000	74,000	8	2.90	7.00	24	2.00		
Olive		66,000	52,800	132,000	93,000	10	3.45	8.00	30	2.13		
Orange		77,000	61,600	154,000	108,000	10	3.95	8.00	32	2.25		
Black		90,000	72,000	180,000	127,000	12	4.45	9.00	36	2.50		
Orange		100,000	80,000	200,000	140,000	12	4.85	9.00	36	2.62		
	Cold Purple Green Yellow Tan Red White Blue Orange Gray Orange Brown Olive Orange Black	GreenYellowTanRedWhiteBlueOrangeGrayOrangeBrownOliveOrangeBlack	Eye ColorVerticalPurple2,600Purple2,600Green5,300Yellow8,400Tan10,600Red13,200White16,800Blue21,200Orange25,000Gray31,000Orange40,000Brown53,000Olive66,000Orange77,000Black90,000	Eye Color Vertical Choker Purple 2,600 2,100 Green 2,600 2,100 Green 5,300 4,200 Yellow 8,400 6,700 Tan 10,600 8,500 Red 13,200 10,600 White 16,800 13.400 Blue 21,200 17,000 Orange 40,000 32,000 Brown 53,000 42,400 Olive 66,000 52,800 Orange 77,000 61,600 Black 90,000 72,000	Rated Capacity (lbs.)* Vertical Color Choker Basket @ 90° Purple 2,600 2,100 5,200 Green 5,300 4,200 10,600 Yellow 8,400 6,700 16,800 Yellow 10,600 8,500 21,200 Red 13,200 10,600 26,400 White 16,800 13.400 33,600 Blue 21,200 17,000 42,400 Orange 31,000 24,800 62,000 Orange 53,000 42,400 106,000 Orange 77,000 42,400 106,000 Black 90,000 72,000 180,000	Rated Capacity (lbs.)* Vertical Choker Basket @ 90° Basket @ 45° Purple 2,600 2,100 5,200 3,600 Green 5,300 4,200 10,600 7,400 Yellow 8,400 6,700 16,800 11,800 Tan 10,600 8,500 21,200 14,000 Red 13,200 10,600 26,400 18,000 White 16,800 13.400 33,600 23,000 Blue 21,200 17,000 42,400 29,000 Orange 40,000 32,000 50,000 35,000 Brown 53,000 42,400 106,000 74,000 Orange 66,000 52,800 132,000 93,000 Orange 77,000 61,600 154,000 108,000 Brown 53,000 72,000 180,000 74,000 Orange 90,000 72,000 180,000 127,000	Rated Capacity (lbs.)* Vertical Color Choker Basket @ 90° Basket @ 45° Minimum Length* (ft.) 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Body Width @ Load (W) (in.) Purple 2,600 2,100 5,200 3,600 4 0.25 2.25 Green 5,300 4,200 10,600 7,400 4 0.35 2.50 Yellow 8,400 6,700 16,800 11,800 4 0.55 2.50 Tan 10,600 8,500 21,200 14,000 5 0.66 3.50 White 13,200 10,600 26,400 18,000 5 0.81 3.50 Blue 21,200 17,000 42,400 29,000 7 0.93 3.50 Orange 25,000 20,000 50,000 35,000 7 1.30 4.25 Grang 31,000 24,800 62,000 35,000 7 1.30 4.25 Orange 40,000 32,000 80,000 56,000 7 2.35 6.00 <tr< td=""><td>Rated Capacity (Ibs.)* Approximate Measurement Vertical Color Choker Basket @ 90° Basket @ 45° Minimum Length* (ft.) Weight (ft.) Body Weight (ft.) Standard Eye D Load (W) (in.) 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** This is the minimum recommended diameter for the connection hardware to be used for a vertical hitch.

Shorter lengths available using reduced eye lengths.

WARNING * Â

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.



General

Web

Round

Protection Sling

Rope Wire

Chain Slings

Hardware Rigging

Mesh Slings

Load

Tow

Huggers Products

Hoists .ift-Al

Slings

Hoist



TUFLEX® BRIDLE ROUNDSLINGS

Features and Benefits

Promotes Safety

- Bridle slings provide better load control and balance.
- Use of hardware prevents cutting and abrasion of sling at bearing points.

Saves Money

Reduces damage by protecting load between pick-up point and crane hook.

Saves Time

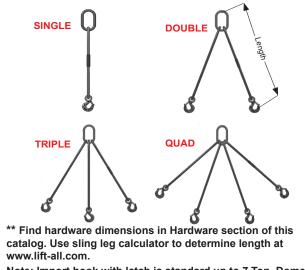
- Lightweight and pliable for easy rigging and storage.
- Sling hooks quickly connect to loads having hoist rings or eye bolts.

How to Order Specify:

- 1. Number of legs:
 - S (Single), D (Double), T (Triple), Q (Quad)
- 2. Master Link: O (Oblong)
- 3. Bottom Attachments: S (Sling Hook), O (Oblong)
- 4. Tuflex Code: EN30, EN90, etc.
- 5. Length of Assembly Feet (Bearing point to bearing point)

Example:

DOSEN90 X 10' is a double leg bridle, with an oblong master link at the top, and sling hooks on each leg of the Tuflex EN90. Bearing to bearing length is 10-ft.



Note: Import hook with latch is standard up to 7 Ton. Domestic hook/latch options used over 7 Ton or upon request.

WARNING Â

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

		Rate	d Capacity	lbs.)*	Hardv	vare**
LEGS	<i>Tuflex</i> Size	Vertical	Choker	Basket	Hook A - Alloy C - Carbon	Masterlink Stock Dia. (in.)
	EN30	2,600	2,100	5,200	2TA	1/2
	EN60	5,300	4,200	10,600	4.5TA	3/4
	EN90	8,400	6,700	16,800	7TA	3/4
	EN120	10,600	8,500	21,200	11TA	1
Щ	EN150	13,200	10,600	26,400	11TA	1
SINGLE	EN180	16,800	13,400	33,600	15TA	1-1/4
SIL	EN240	21,200	17,000	42,400	22TA	1-1/4
	EN360	31,000	24,800	62,000	20TC	1-1/2
	EN600	53,000	42,400	106,000	30TC	2
	EN800	66,000	52,800	132,000	40TC	2-1/4
	EN1000	90,000	72,000	180,000	-	2-1/2

	EN1000			5,000	/2,000	180,000	<u>, </u>	2-1/2	
		Tuflox			All Legs @	2	Hardv	vare**	
LEG	S	<i>Tuflex</i> Size	One Leg @ 90°	60°	45°	30°	Hook A - Alloy C - Carbon	Masterlink Stock Dia. (in.)	
		EN30	2,600	4,500	3,600	2,600	2TA	1/2	
		EN60	5,300	9,100	7,400	5,300	4.5TA	3/4	
		EN90	8,400	14,500	11,800	8,400	7TA	1	
		EN120	10,600	18,300	14,900	10,600	11TA	1-1/4	
DOUBLE		EN150	13,200	22,800	18,600	13,200	11TA	1-1/4	
۳ ۵		EN180 16,800 29,100 23,700 1		16,800	15TA	1-1/2			
8		EN240	21,200	36,700	29,900	21,200	22TA	1-1/2	
_		EN360	31,000	53,700	43,800	31,000	20TC	2	
		EN600	53,000	91,800	74,900	53,000	30TC	2-1/2	
		EN800	66,000	114,300	93,300	66,000	40TC	3	
		EN1000	90,000	155,800	127,200	90,000	-	3-1/4	
		EN30	2,600	6,700	5,500	3,900	2TA	3/4	
		EN60	5,300	13,700	11,200	7,900	4.5TA	1	
		EN90	8,400	21,800	17,800	12,600	7TA	1-1/4	
		EN120	10,600	27,500	22,400	15,900	11TA	1-1/2	
TRIPLE		EN150	13,200	34,200	27,900	19,800	11TA	1-1/2	
E B		EN180	16,800	43,600	35,600	25,200	15TA	1-3/4	
Ë		EN240	21,200	55,000	44,900	31,800	22TA	2	
	- [EN360	31,000	80,500	65,700	46,500	20TC	2-1/4	
		EN600	53,000	137,600	112,400	75,900	30TC	3-1/4	
		EN800	66,000	171,400	139,900	99,000	40TC	3-1/2	
		EN1000	90,000	233,800	190,800	135,000	-	4-1/4	
		EN30	2,600	9,000	7,300	5,200	2TA	3/4	
		EN60	5,300	18,300	14,900	10,600	4.5TA	1-1/4	
		EN90	8,400	29,100	23,700	16,800	7TA	1-1/2	
		EN120	10,600	36,700	29,900	21,200	11TA	1-1/2	
		EN150	13,200	45,700	37,300	26,400	11TA	1-3/4	
QUAD		EN180	16,800	58,200	47,500	33,600	15TA	2	
Ō	1	EN240	21,200	73,400	59,900	42,400	22TA	2-1/4	
		EN360	31,000	107,300	87,600	62,000	20TC	2-3/4	
		EN600	53,000	183,600	149,900	106,000 30TC		3-1/2	
		EN800	66,000	228,600	186,600	132,000	40TC	4-1/4	
		EN1000	90,000	311,700	254,500	180,000	-	4-3/4	

Sling

Web

Robe Wire

§ §

Lift-All Hoists

*

Clamps Plate

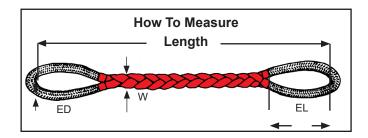
Lifting Devices

BRAIDED TUFLEX® ROUNDSLINGS

For multi-part heavy lifting, braided *Tuflex* roundslings offer you additional security.

Safety Built-In

Tuflex braids are made from three (6-Part), or four (8-Part) individual Tuflex roundslings. Should one of these component slings be damaged while in use, the remaining undamaged slings will be able to assist in safely returning the load to the ground.



Features and Benefits

Maintains all the basic Tuflex features plus...

Promotes Safety

- Braided construction offers engineered safety.
- Lightweight and more flexible than chain slings.

Saves Money

- Large capacity slings are generally purchased for one major lift, then rarely used again. Braided Tuflex roundslings can be returned to Lift-All for disassembly, inspection, and re-tagging as individual slings.
- 6-part flat braid offers wide-body for load stability.

Saves Time

+ Draid (DCE)

Easy to transport and hook-up.

			Pated Ca	pacity (lbs.	·····				Approx	imate Meas	uromo	nte		S
		Vertical	Choker	Basket) Basket @ 45°				Approx					Slings
Part Number	Color	Ø				Min. Sling Length ⁺ (ft.)	Wt. (Ibs. per ft.)	Standard Eye Length (EL) (in.)	Width @ Load (W) (in.)	Thickness at Load (in.)	Eye Dia. (ED) (in.)	Minimum Hardware Dia.** (in.)	Minimum Edge Contact Radii (in.)	Huggers
B6E30	Purple	6,700	5,300	13,400	9,400	4.50	0.8	15	3.25	0.75	1.75	0.63	0.313	P
B6E60	Green	13,500	10,800	27,000	19,000	5.00	1.2	15	3.75	1.13	2.00	1.00	0.438	Products
B6E90	Yellow	21,400	17,100	42,800	30,000	5.50	1.6	15	4.25	1.25	2.00	1.25	0.500	cts
B6E120	Tan	27,000	21,600	54,000	38,000	5.50	2.0	15	4.50	1.31	2.25	1.38	0.625	-
B6E150	Red	33,600	26,800	67,200	47,000	6.50	2.7	20	5.25	1.75	2.50	1.50	0.688	Hoists
B6E180	White	42,800	34,200	85,600	60,000	7.00	3.2	20	5.50	2.00	2.75	1.75	0.813	its
B6E240	Blue	54,000	43,200	108,000	76,000	9.00	4.4	20	6.63	2.25	3.50	1.75	0.813	
B6E360	Gray	79,000	63,200	158,000	111,000	9.50	6.5	30	8.25	2.50	4.25	2.50	1.00	Rings
B6E600	Brown	135,100	108,000	270,200	191,000	10.50	9.7	30	11.00	2.75	5.00	3.00	1.313	sb
B6E800	Olive	168,300	134,600	336,600	230,000	13.00	12.0	30	12.00	4.00	5.25	3.50	1.375	
B6E1000	Black	229,500	183,600	459,000	320,000	14.50	15.6	31	13.50	4.50	5.75	4.00	1.750	Clamps

Shorter lengths available using reduced eye lengths.

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

General Tormation Slings Web Round Slings

Load

Tow

Plate





General

Web

Round

Sling

Mesh Slings

Load

To⊌

Products Huggers

Hoists Lift-All

Hoist Rings

Plate Clamps

Lifting Devices

Polyester Roundslings

BRAIDED TUFLEX® ROUNDSLINGS



Order Information

Ordering length should be based on the sling at rest. Braided *Tuflex* length tolerance is $\pm 2"+5\%$ of the ordered length, with the sling at rest. At it's rated capacity, braided Tuflex will stretch approximately 9%.



	8-Part Round Braid (B8E)													
				Rated Cap	pacity (lbs.)	*				Approxi	mate Meas	ureme	nts	
Part Number	Colo	or	Vertical	Choker	Basket	Basket @ 45°	Min. Sling Length ⁺ (ft.)	Wt. (Ibs. per ft.)	Standard Eye Length (EL) (in.)	Width @ Load (W) (in.)	Thickness at Load (in.)	Eye Dia. (ED) (in.)	Minimum Hardware Dia. ** (in.)	Minimum Edge Contact Radii (in.)
B8E30	Purple		8,800	7,100	17,600	12,400	4.50	1.1	15	3.50	1.00	1.75	0.75	0.313
B8E60	Green		18,000	14,400	36,000	25,000	5.00	1.5	15	4.00	1.38	2.00	1.13	0.500
B8E90	Yellow		28,500	22,800	57,000	40,000	5.50	2.2	15	4.75	1.63	2.50	1.50	0.563
B8E120	Tan		36,000	28,800	72,000	50,000	5.50	2.6	15	5.00	1.75	2.50	1.50	0.688
B8E150	Red		44,900	35,900	89,800	63,000	6.50	3.6	20	6.00	2.13	2.75	1.75	0.750
B8E180	White		57,100	45,600	114,200	80,000	7.00	4.1	20	6.25	2.50	3.25	2.00	0.875
B8E240	Blue		72,000	57,600	144,000	101,000	9.00	5.6	20	7.50	2.75	3.75	2.00	0.938
B8E360	Gray		105,400	84,300	210,800	149,000	9.50	8.3	30	9.50	3.25	4.50	2.50	1.125
B8E600	Brown		180,200	144,100	360,400	250,000	10.50	12.0	30	13.00	3.75	5.50	3.50	1.500
B8E800	Olive		224,400	179,500	448,800	310,000	13.00	16.0	30	13.50	4.50	6.00	4.00	1.625
B8E1000	Black		306,000	244,000	612,000	430,000	14.50	20.0	31	15.75	5.25	6.50	4.75	2.00

** This is the minimum recommended diameter for the connection hardware to be used for a vertical hitch.

* Shorter lengths available using reduced eye lengths.



Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

*



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 ergonimic 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.

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.

Inspection Criteria

Remove from service when:

- Cuts to the sling cover that expose core yarns.
- Holes, tears, snags or abrasion that expose core yarns.
- The sling shows signs of melting, charring or chemical damage.
- Capacity tag is illegible or missing.
- Other visible damage that causes doubt as to strength of the sling.

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.

Temperature

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

Clamps

Plate

*

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.



General

Web

Slings

Round Slings

Protection

Rope

Sling

Wire

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Lift-All

Huggers Products

Hoists

Hoist Rings



HIGH PERFORMANCE ROUNDSLINGS

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: Multi-path slings exhibit an advantage during strength verification testing as test pins allow for tension forces to be spread over a wider, flat bearing surface. 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.





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

Slings are made to a tolerance of \pm 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.

*

Lifting Devices

Slings

Protection

Sling

Wire Rope

Chain Slings

Rigging Hardware

Mesh

Load

10 ≷

Lift-All Hoists

Hoist

Plate



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.



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.

Lifting Devices



Information

Slings

General

Web

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load Huggers

Lift-All Hoists

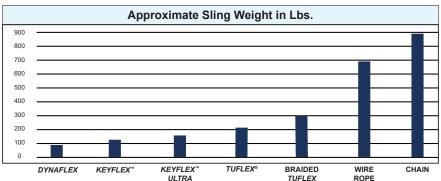
To⊌

Hoist

High Performance Roundslings

DYNAFLEX™ ROUNDSLING





Iten	ı	Approximate Sling Weight (lbs.)	Vertical Capacity (Ibs.)
DynaFlex Roundsling:	DEN200K x 25-ft.	99	200,000
<i>KeyFlex</i> [™] Roundsling:	KEN200K x 25-ft.	130	200,000
KeyFlex Ultra Roundsling:	KEN3P200 x 25-ft.	173	200,000
<i>Tuflex</i> [®] Roundsling (2 ea.):	EN1000 x 25-ft.	207	180,000
Braided <i>Tuflex</i> Roundsling:	B8E600 x 25-ft.	300	180,000
Wire Rope Sling (2 ea.):	2-1/4" 6X37 IWRC x 25-ft.	669	176,000
Chain Sling (2 ea.):	1-1/4" SOS x 25-ft.	870	144,600

DynaFlex Capacities and Measurements

		Rated Capa	acity (lbs.)*			Approximate Measurements				
Part Number	Vertical	Choker	Basket @ 90°	Basket @ 45°	Min. Length (ft.)	Wt. (Ibs per ft.)	Body Dia. Relaxed (in.)	Width @ Load (in.)	Minimum Hardware Diameter (in.)	Minimum Edge Contact Radii (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

Plate Clamps

Lifting Devices

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

High Performance Roundslings



General

Web Slings

Round Slings

> Sling Protection

Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Huggers Products

Lift-All Hoists

Plate Clamps

Lifting Devices

Wire

KEYFLEX[™] ROUNDSLINGS

with Technora® core

90,000

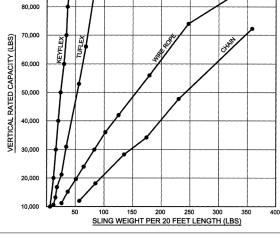
The chart at the right plots the weights of 20-ft. slings at various capacities:

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

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.

KeyFlex Capacities and Measurements										
		Rated Capa	acity (lbs.)*			leasurements	ements			
Part Number	Vertical	Choker	Basket @ 90°	Basket @ 45°	Min. Length (ft.)	Wt. (Ibs per ft.)	Body Dia. Relaxed (in.)	Width @ Load (in.)	Minimum Hardware Diameter (in.)	Minimum Edge Contact Radii (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
vailable in h	nigher capac	ity and/or sh	norter length	versions.			Technora	is a regist	ered trademark	of Teijin LTD



- *
- A WARNING

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.



High Performance Roundslings

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



KeyFlex Ultra is 87% lighter than comparable capacity wire rope slings.

This makes it easier to handle, and safer for workers to use.

	Rated Capacity (lbs.)*							
Part Number	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	Minimum Sling Length (ft.)	Weight Per Foot (Ibs.)	Body Diameter Relaxed (in.)	Body Width @ Load (in.)	Minimum Edge Contact Radius	Minimum Hardware Diameter
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

Technora is a registered trademark of Teijin LTD.

A WARNING

Always protect roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

Sling Protection

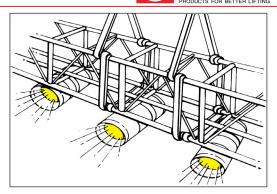
Т0 ≷

Hoist

Lift-All Hoists

Specialty Roundslings





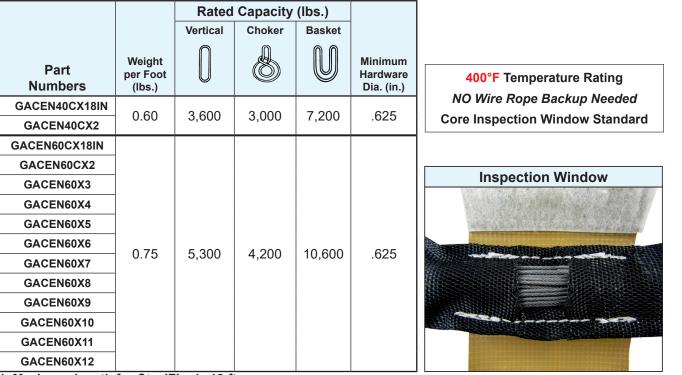
Designed for suspension applications

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.
- Engineered window allows for core inspection.
- Superior flexibility makes rigging easy.
- Conforms to the load to grip securely.
- Superior cut resistance.



1. Maximum length for SteelFlex is 12-ft.

2. Sling lengths under 3' use a modified construction and do not have a seamless cover.





Round Slings

> Sling Protection

Rope

Chain Slings

Rigging Hardware

Mesh Slings

Huggers

Products

Hoists

Plate Clamps

_ifting

Load

Wire



POLYESTER STAGE SLINGS

These lightweight roundslings are ideal for easy and inconspicuous suspension of stage sound and lighting equipment. Black sleeve material helps 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		Rate	d Capacity (It	os.)*	Approximate Measuremen				nts
			Vertical	Choker	Basket	Minimum Length (ft.)	Weight (Ibs. / ft.)	Body Diameter Relaxed (in.)	Body Width @Load (in.)	Minimum Hardware Diameter (in.)
BSEN30	Purple		2,600	2,100	5,200	1-1/2	.2	5/8	1-1/8	7/16
BSEN60	Green		5,300	4,200	10,600	1-1/2	.3	7/8	1-1/2	5/8
BSEN90	Yellow		8,400	6,700	16,800	3	.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

WARNING

Always protect Roundslings from corners, edges, or protrusions. Refer to the Sling Protection section of this catalog to choose the right protection product for your lift.

Round

To≷

Lift-All

Plate Clamp

Lifting Devices

Hoists

Inspection Criteria



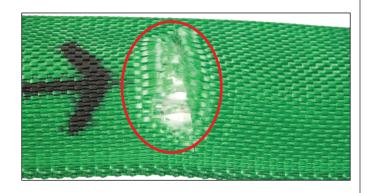
ROUNDSLING INSPECTION CRITERIA

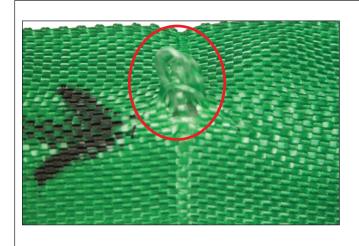
The following photos illustrate some of the damage that occurs and indicates the sling must be taken out of service. For inspection frequency requirements, see the General Information section in this catalog.

CUTS TO THE COVER

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. Therefore, the sling must be taken out of service.

TO PREVENT: Always protect synthetic slings from being cut by using cut protection. See Sling Protection section in this catalog.





HOLES, SNAGS, or PULLS

WHAT TO LOOK FOR: Punctures or areas where fibers stand out from the rest of the sling surface. Inspect 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. See Sling Protection section in this catalog.

ABRASIVE WEAR

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. See Sling Protection section in this catalog.



General

Web Slings

Round Slings

Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Load

Tow

Lift-All

Plate

Lifting

Huggers Products

Sling



General

Web Slings

> Round Slings

> > Protection

Sling

Wire Rope

Chain Slings

Rigging Hardware

Mesh

Load

To≷

Hoist

Lift-All Hoists

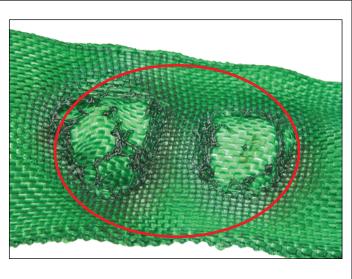
Inspection Criteria

ROUNDSLING INSPECTION CRITERIA

HEAT / CHEMICAL DAMAGE

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.

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.



Cuts to the cover NOT exposing internal core yarns. 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. See the Sling Protection section in this catalog.