

# RECOMMENDED OPERATING PRACTICES FOR ROUNDSLINGS

## MECHANICAL CONSIDERATIONS

- Determine the weight of the load
- Select proper polyester roundsling having suitable characteristics for the type of load, hitch and environment. Only Polyester roundslings with legible identification tags shall be used.
- Polyester roundslings shall not be loaded in excess of the rated capacity. Consideration should be given to the angle from the horizontal (load to sling angle) which affects rated capacity.
- Polyester roundslings with fittings which are used in a choker hitch shall be of sufficient length to assure that the choking action is on the Polyester roundsling and never on the fittings.
- Polyester roundslings used in a basket hitch shall have the load balanced to prevent slippage.
- Polyester roundslings shall not be dragged on the floor or over an abrasive surface.
- Polyester roundslings shall not be twisted or tied into knots, or joined by knotting.
- Polyester roundslings shall not be pulled from under loads when the load is resting on the sling.
- Polyester roundslings shall be used with lifting devices that are compatible with roundslings.
- Polyester roundslings shall always be protected from being cut by sharp corners, sharp edges, protrusions or abrasive surfaces.
- The opening in fittings shall be the proper shape and size to insure that the fitting will seat properly into the hook or their attachments.
- Polyester roundsling protective covers that are cut, exposing the load bearing yarn, shall be removed from service
- Consideration shall be given to the distribution of load weight on a multi-legged lift.

## ENVIRONMENTAL CONSIDERATIONS

Polyester roundslings should be stored in a cool, dry and dark place; and should not be exposed to ultra violet light (sunlight). Polyester roundslings shall not be stored in chemically active areas. Chemically active environments can affect the strength of synthetic Polyester roundslings in varying degrees ranging from little to total degradation. The roundsling manufacturer should be consulted before roundslings are used in chemically active environments.

### ACIDS

- Nylon is subject to degradation in acids, ranging from none to total degradation.
- Polyester is resistant to many acids, but is subject to degradation ranging from none to moderate in some acids.
- Each application shall be evaluated, taking into consideration the following; Type of Acid, Exposure Conditions, Concentration, and Temperature.

### ALKALIS

- Polyester is subject to degradation in alkalis, ranging from none to total degradation.
- Nylon is resistant to many alkalis, but is subject to degradation ranging from none to moderate in some alkalis.
- Each application shall be evaluated taking into consideration the following; Type of Alkalis, Exposure Conditions, Concentration, and Temperature.

Nylon and Polyester slings shall not be used at a temperature in excess of 194°F (90°C). However, they may be used in temperatures as low as -40°F (-40°F). For sling applications where temperatures exceed 194°F (90°C) contact your sling fabricator supplier. Slings incorporating aluminum fittings shall not be used where fumes, vapors, sprays, mists or liquids of alkalis and/or acids are present.

Environments in which synthetic web slings are continuously exposed to ultra violet light (sunlight) can affect the strength of synthetic webbing varying degrees, ranging from slight to total degradation is also cumulative. Factors which can determine the degree of strength loss are: 1/ Length of time of continuous exposure, 2/ Sling construction and design, 3/ Other environmental factors such as weather conditions and geographic location.

Suggested procedures to minimize the effects of ultra violet light (sunlight); 1/ Store slings in cool, dry and dark place when not being used for prolonged periods of time, 2/ Inspect slings weekly or more often, depending on frequency of use.

Visual indications; 1/ Bleaching out of sling color, 2/ Increased stiffness of slings material, 3/ Surface abrasions in areas not normally in contact with the load.

Recommended Operating Practices are in accordance with the Web Sling & Tie Down Association

1-800-423-4423



# ROUNDSLINGS

## SLINGER FEATURES

- ✓ The most flexible sling available.
- ✓ The sling conforms to the load extremely well, and provides the best choker hold
- ✓ Hook and load contact points can be continually rotated to extend the service lift of the sling
- ✓ Longer sling life means cost reduction in sling purchases
- ✓ The load bearing fibre never comes into contact with the load.
- ✓ Protection to the load from sling damage
- ✓ Seamless cover, no edges to wear out
- ✓ Wide variety of sling lengths and load capacities
- ✓ Adapts to all types, sizes, and load configurations
- ✓ Lightweight, easy to rig, store, and clean
- ✓ Excellent resistance to ultra-violet light, rot, and mildew
- ✓ No loss of strength in water
- ✓ Only 3% elongation on Polyester Rounds, and only 1% on high-performance rounds
- ✓ Maximum temperature exposure 194°F
- ✓ No metal parts on the sling to rust



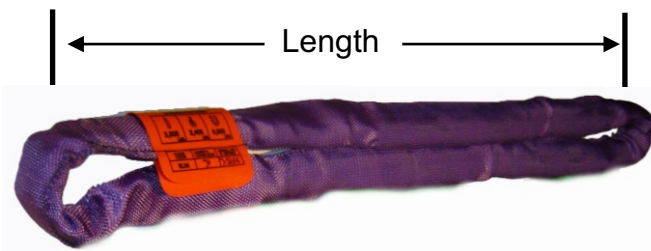
## SLINGER CONSTRUCTION

Slinger Roundslings are constructed from a multiple of high tenacity polyester yarns in an endless or continuous loop. These load bearing yarns are protected by two woven polyester jackets. The polyester jackets act as a buffer between the load and the polyester yarn.

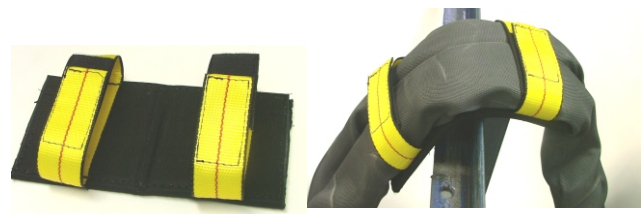


## MEASURED LENGTH

All round slings are measured pull to pull:



## ROUNDSLING WEAR PAD








Part #WPCPB

It is recommended to always use wear pads

# POLYESTER ROUNDSLINGS



## SLINGER POLYESTER ROUND SLINGS

STOCK CODE NO.	COLOR	 VERTICAL POUNDS	 CHOKER POUNDS	 90° BASKET	 60° BASKET	 45° BASKET	APPROX. DIAMETER INCHES	APPROX. WEIGHT/FT POUNDS	MIN. Connection Hardware Thickness Vertical or Choker (Inches)	MIN. Connection Hardware Thickness Basket (Inches)	MINIMUM LENGTH
SL-30	PURPLE	3,000	2,400	6,000	5,200	4,200	0.75	0.25	0.50	0.62	18"
SL-40	BLACK	4,000	3,200	8,000	6,900	5,600	0.80	0.35	0.50	0.62	18"
SL-60	GREEN	6,000	4,800	12,000	10,300	8,400	0.90	0.40	0.62	0.88	18"
SL-90	YELLOW	9,000	7,200	18,000	15,500	12,600	1.00	0.50	0.75	1.00	2'
SL-120	TAN	12,000	9,600	24,000	20,600	16,800	1.25	0.75	0.88	1.25	3'
SL-140	RED	14,000	11,200	28,000	24,100	19,600	1.30	0.85	1.00	1.38	3'
SL-170	ORANGE	17,000	13,600	34,000	29,300	23,800	1.60	0.95	1.12	1.62	3'
SL-230	BLUE	23,000	18,400	46,000	39,500	32,200	1.65	1.25	1.25	1.75	3'
SL-260	ORANGE	26,000	20,800	52,000	44,700	36,400	1.75	1.45	1.38	1.88	3'
SL-320	GREY	32,000	25,600	64,000	55,000	44,800	2.15	1.75	1.50	2.00	3'
SL-400	ORANGE	40,000	32,000	80,000	68,800	56,000	2.45	2.25	1.62	2.38	4'
SL-540	BROWN	54,000	43,200	108,000	92,900	75,600	3.00	2.75	1.88	2.75	6'
SL-680	OLIVE GREEN	68,000	54,400	136,000	117,000	95,200	3.25	3.60	2.12	3.00	8'
SL-900	BLACK	90,000	72,000	180,000	155,000	126,000	3.75	4.10	2.50	3.50	8'

 **WARNING** MAXIMUM RATED CAPACITIES FOR NEW SLINGS.  DO NOT EXCEED

SL-540, SL-680, and SL-900 slings are made with an abrasion resistance Nylon Cordura double cover, and therefore when in active chemical environments, the sling user must be aware of which acids might effect the cover or the yarns. (Refer to Chemical chart on Page 7)

SL-230 and SL-320 slings are available with the abrasion resistance Nylon Cordura double cover.






# ROUNDSLINGS

## EYE & EYE ROUNDSLINGS



Eye & Eye roundslings are made with Polyester Tubing slid over both legs to create an eye each end. For improved abrasion resistance we can supply Ballistic Nylon to create the Eye & Eye. For the part number add a "B" on the end. We can also cover the eyes in Ballistic Nylon. (For Ballistic eye Add to Part Number - EB)

## EYE & EYE SLINGER POLYESTER ROUNDSLINGS

STOCK CODE NO.	COLOR					
		VERTICAL POUNDS	CHOKER POUNDS	90° BASKET	60° Basket	45° BASKET
SL-30E	PURPLE	3,000	2,400	6,000	5,200	4,200
SL-40E	BLACK	4,000	3,200	8,000	6,900	5,600
SL-60E	GREEN	6,000	4,800	12,000	10,300	8,400
SL-90E	YELLOW	9,000	7,200	18,000	15,500	12,600
SL-120E	TAN	12,000	9,600	24,000	20,600	16,800
SL-140E	RED	14,000	11,200	28,000	24,100	19,600
SL-170E	ORANGE	17,000	13,600	34,000	29,300	23,800
SL-230E	BLUE	23,000	18,400	46,000	39,500	32,200
SL-260E	ORANGE	26,000	20,800	52,000	44,700	36,400
SL-320E	GREY	32,000	25,600	64,000	55,000	44,800
SL-400E	ORANGE	40,000	32,000	80,000	68,800	56,000
SL-540E	BROWN	54,000	43,200	108,000	92,900	75,600
SL-680E	OLIVE	68,000	54,400	136,000	117,000	95,200
SL-900E	BLACK	90,000	72,000	180,000	155,000	126,000

## BRIDLE ROUNDSLINGS



Bridle roundslings are made specific to our customers requirements. Have them made with hooks or eyes on the end. Customer can supply specific hardware for us to make on the bridle sling.

## SLINGER POLYESTER BRIDLE SLINGS

STOCK CODE NO.	COLOR	Single 90° Vertical	Double @ 60° #DOH	Quad @ 60° #QOH	ALLOY HOOK (Tons)	MASTER LINK Stock Dia. (inches)		
						Single	Double	Quad
SL-30	PURPLE	3,000	5,200	10,300	1.5 T	1/2"	1/2"	3/4"
SL-40	BLACK	4,000	6,900	13,800	2 T	1/2"	3/4"	1"
SL-60	GREEN	6,000	10,300	20,700	3 T	3/4"	3/4"	1"
SL-90	YELLOW	9,000	15,500	31,100	4.5 T	1"	1"	1-1/4"
SL-120	TAN	12,000	20,700	41,500	7 T	1"	1"	1-1/2"
SL-140	RED	14,000	24,200	48,500	7 T	1"	1-1/4"	1-3/4"
SL-170	ORANGE	17,000	29,400	58,800	11 T	1 1/4"	1-1/4"	1-3/4"
SL-230	BLUE	23,000	39,800	79,600	15 T	1 1/2"	1-1/2"	2"
SL-260	ORANGE	26,000	45,000	90,000	15 T	1 1/2"	1-1/2"	2-1/4"
SL-320	GREY	32,000	55,400	110,800	22 T	1 3/4"	1-3/4"	2-1/4"
SL-400	ORANGE	40,000	69,200	138,500	22 T	1 3/4"	1-3/4"	2-1/2"
SL-540	BROWN	54,000	93,500	187,000	30 T	2"	2-1/4"	2-3/4"
SL-680	OLIVE	68,000	117,700	235,500	37 T	2 1/4"	2-1/4"	3-1/2"
SL-900	BLACK	90,000	155,850	311,700	45 T	2 1/2"	2-3/4"	4"

 **WARNING** MAXIMUM RATED CAPACITIES FOR NEW SLINGS.  **DO NOT EXCEED**

1-800-423-4423








# HIGH-PERFORMANCE ROUNDSLINGS

## SUPER SLINGERS



Internal Orange cover to identify rips

SUPER SLINGER ROUND SLINGS										
STOCK CODE NO.	COLOR	 VERTICAL POUNDS	 CHOKER POUNDS	 90° BASKET	 30° BASKET	 45° BASKET	APPROX. DIAMETER INCHES	APPROX. WEIGHT/FT POUNDS	MIN. Connection Hardware Thickness	MIN. Length
SS-200	BLACK	20,000	16,000	40,000	34,600	28,000	1.25	0.55	1.25	18"
SS-250	BLACK	25,000	20,000	50,000	43,200	35,000	1.25	0.65	1.38	18"
SS-300	BLACK	30,000	24,000	60,000	51,900	42,000	1.38	0.80	1.50	2'
SS-400	BLACK	40,000	32,000	80,000	69,200	56,000	1.75	1.10	1.50	2'
SS-500	BLACK	50,000	40,000	100,000	86,500	70,000	1.88	1.50	1.75	2'
SS-600	BLACK	60,000	48,000	120,000	103,800	84,000	2.00	1.60	2.00	3'
SS-700	BLACK	70,000	56,000	140,000	121,100	98,000	2.13	1.65	2.50	3'
SS-850	BLACK	85,000	68,000	170,000	147,000	119,000	2.50	1.85	2.50	3'
SS-1000	BLACK	100,000	80,000	200,000	173,000	140,000	2.75	2.20	2.50	4'
SS-1250	BLACK	125,000	100,000	250,000	216,200	175,000	3.00	3.00	3.00	4'
SS-1500	BLACK	150,000	120,000	300,000	259,500	210,000	3.25	3.35	3.50	6'
SS-1750	BLACK	175,000	140,000	350,000	302,700	245,000	3.50	4.00	3.50	6'
SS-2000	BLACK	200,000	160,000	400,000	346,000	280,000	3.75	4.35	INQUIRE	8'
SS-2250	BLACK	225,000	180,000	450,000	389,700	318,000	5.00	5.00	INQUIRE	8'
SS-2500	BLACK	250,000	200,000	500,000	433,000	353,000	5.50	5.85	INQUIRE	10'
SS-2750	BLACK	275,000	220,000	550,000	476,300	388,000	6.00	6.50	INQUIRE	10'
SS-3000	BLACK	300,000	240,000	600,000	519,600	424,000	6.50	7.15	INQUIRE	10'

 **WARNING** MAXIMUM RATED CAPACITIES FOR NEW SLINGS.  **DO NOT EXCEED**

# ROUNDSLING INSPECTION CRITERIA

It is important to inspect your roundslings after purchase.

## TYPES OF INSPECTION

**A. Initial Inspection** - Before any new or repaired roundsling is placed in service, it shall be inspected by a designated competent person to ensure that the correct round sling is being used, as well as to determine that the round sling meets the requirements of this specification.

**B. Frequent Inspection** - This inspection should be conducted by the person handling the sling each time the sling is used.

**C. Periodic Inspection** - This inspection shall be conducted by designated personnel. Frequency of inspection should be based on; Frequency of round sling use, Severity of service conditions, experience gained on the service life of round slings used in similar applications. Inspections should be conducted at least annually.

## Remove the sling from service if any of the following is visible:

- If sling rated capacity or sling material identification is missing or not legible
- Acid or alkalis burns
- Melting, charring or weld spatters on any part of the round sling
- Holes, tears, cuts, snags or embedded particles
- Broken or worn stitching in the cover, that exposes core yarns
- Core yarns are broken or damaged during use
- Knots in any part of the round sling
- Excessive pitting, or corrosion, or cracked, or distorted, or broken fittings
- Any other visible damage that causes doubt as to the strength of the sling



Exposed load bearing yarns



Seam of cover opening



Melted or Charred areas

## Inspection Records

Written inspection records, utilizing the identification for each sling as established by the user, should be kept on file for all round slings. These records should show a description of the sling and its condition on each periodic inspection.

## Repair of Roundslings

There shall be no repairs of load bearing fibers. Repairs to the protective covers will be done by the original manufacturer. All repaired polyester roundslings shall be proof tested to a minimum of 2 times rated vertical capacity.