

Round Slings - General Information

CAUTIONS

When preparing the load, protect against:

- Twists and kinks in the sling
- Damage to sling from sharp edges and corners
- Trapping sling between or under loads
- Damage due to load turning in basket hitch
- Overloading sling and excessive sling leg angles
- Loading sling out of plain/side loading
- Wear by use of wear pads or other protection
- Point loading of hooks
- Exposure to fumes, vapours, sprays or mists of alkali, ethers or concentrated sulphuric acid
- Exposure to excessive temperatures
- General abuse

SAFE OPERATING PRACTICES

- Know the working load limit of the equipment and tackle being used. Never exceed this limit
- Determine the load weight before rigging it
- Determine how the load is to be connected to the lifting hook as well as how the sling will grip or be attached to the load
- Inspect the sling before using it and destroy defective components. Discarded equipment may be used by someone not aware of the hazards and defects
- Round slings must always be protected from being cut by sharp corners, sharp edges, protrusions, or abrasive surfaces
- Round slings must not be twisted, shortened, lengthened, tied into knots, or joined by knotting
- Never carry out any rigging or hoisting operation when the weather conditions are such that hazards to personnel, property or the public are created
- Stand clear of the lift
- Do not jerk the load
- Refer to ASME B30.9B 9(latest rev.) for more information on safe operating practices

CARE, MAINTENANCE & INSPECTION

When placing the sling into storage, the following should be considered:

- Examine for holes, tears, cuts, snags, embedded particles or abrasive wear that expose the core fibres
 - Broken or worn stitching in the cover that expose the core fibres
 - Capacity tag must be legible and in tact
 - Distortion, excessive pitting, corrosion or broken fitting
 - Acid or alkali burns
 - Signs of melting (particularly the internal load bearing fibres), charring or weld splatter on any part of the sling
 - Remove dirt and other foreign materials
 - Examine for broken wires, wear, abrasion, distortion, heat damage, knots and kinks
 - Hang in clean, dry area and avoid entanglement
 - Store away from exposure to sunlight
 - All accessories used with the sling must be free of sharp edges
 - Keep an accurate written and dated record of all conditions
 - Immediately dispose of slings that are deemed unfit for use
 - Each day before being used, a competent person must inspect the sling and attachments for damage or defects
- Additional inspections shall be performed at regular intervals based on:
- 1) Frequency of sling use
 - 2) Severity of service conditions
 - 3) Nature of lifts
 - 4) Prior experience based on service life of slings used in similar circumstances
- Damaged or defective slings shall be immediately removed from service.
As per ANSI Std. B30.9 & OSHA

ORDERING SLINGS

When placing an order, please specify the following:

- Colour and capacity of sling
- Sling length –Feet (bearing point to bearing point)
- Type of sling required
- Attachments required

EXAMPLES OF REJECTION

Abrasion



Acid Burn



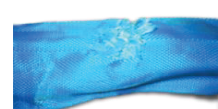
Burn



Cut



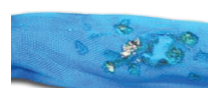
Tear



Knotting



Illegible Tag



Weld Splatter







Pulled yarns



Core exposed showing cut strands

Round Slings Reference Chart

Working Load Limits (Lbs)						
Code	Colour	Vertical 90°	Choker 90°	Basket 90°	Angle 60°	
						
ML30	PURPLE	2600	2100	5200	4500	
ML40	BLACK	4000	3200	8000	6900	
ML60	GREEN	5300	4200	10600	9200	
ML90	YELLOW	8400	6700	16800	14500	
ML120	TAN	10600	8500	21200	18400	
ML140	RED	13200	10600	26400	22900	
ML170	ORANGE	16800	13400	33600	29100	
ML230	BLUE	21200	17000	42400	36700	
ML260	BROWN	25000	20000	50000	43300	
ML320	GRAY	31000	24800	62000	53700	
ML400	OLIVE	40000	32000	80000	69300	
ML540	ORANGE	53000	42400	106000	91800	
ML680	ORANGE	66000	52800	132000	114300	
ML900	ORANGE	90000	72000	180000	155900	

The working load limits are calculated on a 5:1 design factor
The chart is in accordance with ASME B30.9-2010 specifications

Macline Round Slings

Endless Round Slings



- Standard color coding makes it easier to identify lifting capacities
- Strong, lightweight, easy to handle and configured in an endless sling offers the operator the ability to adjust wear points.
- A durable polyester double cover protects loads from abrasion and deformations, improves visual inspection procedures and is easily repairable subject to damage on load bearing yarns.
- Easy to read, first sling tagging with plastic covers made for Canadian winters.
- Slings are available with a chip to electronically track and report days of service and last inspection dates
- Macline round slings meet or exceed ASME B30.9-2010 specifications