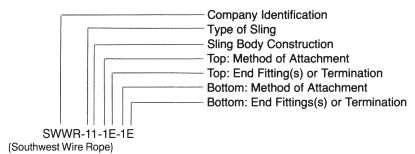


Technical Data Manual





Sling Nomenclature and Identification



NOTE: Above example is a standard eye and eye sling, mechanically spliced.

TYPE OF SLING

1. Single Leg

- 2. Two-Leg Bridle
- 3. Three-Leg Bridle
- 4. Four-Leg Bridle
- 5. Grommet
- 6. Endless
- 7.
- 8.
- 9.
- 0. Other

SLING BODY CONSTRUCTION

- 1. Single Part
- 2. Cable Laid
- 3. Three Part
- 4. Four Part
- 5. Five Part
- 6. Six Part
- 7. Seven Part
- 8. Eight Part
- 9. Nine Part
- 0. Other

METHOD OF ATTACHMENT

- 1. Mechanically Swaged
- 2. Hand Spliced
- 3. Poured
- 0. None

FITTINGS OR TERMINATION

- CS Closed Socket
- OS Open Socket
- E Eye
- F Ferrule
- OL Oblong Link
- PL Pear Link
- RL Ring
- EH Eye Hoist Hook
- FH Foundry Hook
- LH Ferrule Choker Hook
- PH Pipe Hook
- RH Swivel Hook
- SH Sorting Hook
- TH Sliding Choker Hook
- CT Crescent Thimble
- ET Equalizing Thimble
- HT Heavy Duty Thimble
- MT Hawser Thimble
- OT Slip-On Thimble
- ST Slip-Thru Thimble
- CP Closed Boom Pendant Thimble
- OP Open Boom Pendant Thimble
- SE Threaded Stub End
- X Undefined by Standard Nomenclature

All Connections To Links and Hooks will contain a heavy duty thimble unless otherwise specified.

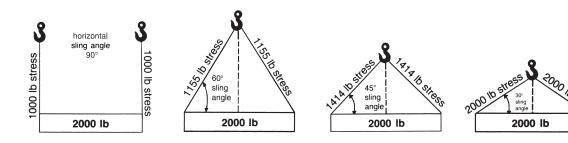


Attachment Efficiency

Wire Rope Sockets		Nominal Efficiency Percent of Catalog Rated Rope Strength %
Poured Attachments Spelter, Zinc or Resin Fittings (Swaged or Pressed)		100
	C	95-100
Reg. Lay, Fibe	r Core	92
	waged (with or without thimble)	
1/4'' thru 1'' (IW	95	
$\frac{1}{4}$ " thru 1" (Fiber Core Rope)		92.5
$1\frac{1}{8}''$ thru $1\frac{7}{8}''$ (IWRC Rope)		92.5
	Fiber Core Rope)	90
	/RC Rope)ber Core Rope)	90
2" and larger (Fi	87.5	
Clips (U-Bolt and T Number of Clips	80	
Wedge Sockets Depending on de	70-90	
Spliced-in Thimbles	:	
$\frac{1}{4}$ and smaller		90
⁵ / ₁₆ ''		89
3/8''		88
⁷ / ₁₆ ′′		87
1/2''		86
5/8''		
3/4''		84
	· · · · · · · · · · · · · · · · · · ·	82
⁷ / ₈ '' thru 2 ¹ / ₂ ''	•••••••••••••••••••••••••••••••••••••••	80
Safeline Clamps	85-90	
Knot and Clip (Con		
"Not Recommende	50 or less	



Effect Of Angles On Sling Capacities



The rated capacity of a multiple leg sling is directly affected by the angle of the sling leg with the horizontal. As this angle decreases, the stress on each leg increases with the same load. If the sling angle is known, the capacity can be readily determined by multiplying the sling's vertical capacity by the appropriate load angle factor from the table at right.

Horizontal Sling Angle	Load Angle Factor	
90°(Vertical)	1,000	
75°	.966	
60°	.866	
45°	.707	
30°	.500	
15°	.259	

Example:

A multiple leg sling with a rated capacity of 2000 lb. will have a reduced capacity of 1000 lb. (2000 x .500) when sling legs are at an angle of 30° with horizontal.

Wire Rope Sling Inspection

Conditions such as the following should be sufficient reason for consideration of sling replacement:

- For strand laid and single part slings, six
 (6) randomly distributed broken wires in one rope lay, or three (3) broken wires in one strand in one rope lay.
- For cable laid and braided slings of less than 8 parts, twenty (20) randomly distributed broken wires in one lay or braid, or one (1) broken strand per sling.
- For braided slings of 8 parts or more, forty (40) randomly distributed broken wires in one braid, or two (2) broken strands per slings.
- 4. Severe localized abrasion or scraping. Wear exceeding 1/3 original outside wire diameter.
- 5. Kinking, crushing, birdcaging or any other damage resulting in distortion of the wire rope structure.

- Evidence of heat damage or if a wire rope sling having a fiber core is exposed to temperatures in excess of 200° F. or if a wire rope sling having a steel core is used at temperatures above 400° F or below minus 60° F.
- 7. End attachments that are cracked, deformed, or worn.
- Hooks that have been opened more than 15% of the normal throat opening measured at the narrowest point or twisted more than 10° from the plane of the unbent hook.
- 9. Corrosion of the rope or end attachments.
- 10. Unlaying or opening up of a tucked splice.