



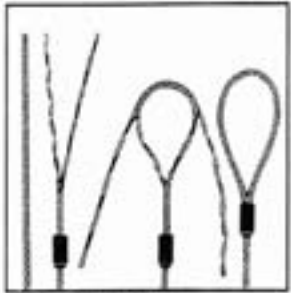
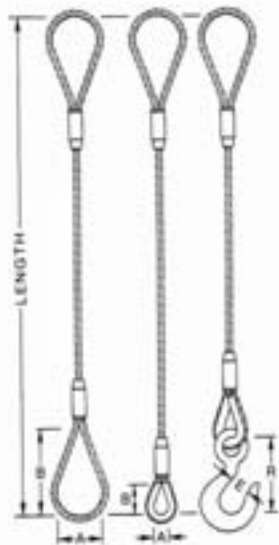
# WIRE ROPE SLINGS



SINGLE PART BODY MECHANICAL SPLICE

## Single Part, Mechanical Splice Slings... IWRC... IPS

Eyes are formed using the flemish eye splice. Ends are secured by pressing a metal sleeve, either steel or aluminum, over the ends of the strands of the splice. Pull is directly along the centerline of rope and eye. Gives most efficient use of rope capacity, is economical.



**Flemish Eye Splice**  
In the standard flemish eye mechanical splice, rope is separated into two parts - 3 adjacent strands, and 3 adjacent strands and cors. These two parts are then re-laid back in opposite directions to form an eye, and ends are secured with a pressed metal sleeve.



**Swaging Provides Positive Grip**  
This cutaway of a metal sleeve swaged onto a splice shows how metal "flows" into valleys between strands to positively prevent ends from unlaying when sling is used within its rated capacity.

The chart below lists the capacities and sizes of the most common slings. We welcome the opportunity to quote your special requirements. Latch Hook Kits are available.

Rated Capacity ( tons 2000 lbs.) \*

Rope Size (in.)	Eye Size (in.)		Recommended Minimum Length	Basket Hitch		Basket Hitch			
	W	L		Straight Pull	Choker Hitch **	Vertical	60°	45°	30°
1/4	3	6	1' 6"	.56	.42	1.1	.97	.79	.56
5/16	3	6	1' 10"	.87	.65	1.7	1.5	1.2	.87
3/8	3	6	1' 10"	1.2	.93	2.5	2.2	1.8	1.2
1/2	4	8	2' 4"	1.7	1.3	3.4	2.9	2.4	1.7
5/8	4	8	2' 6"	2.2	1.6	4.4	3.8	3.1	2.2
3/4	4	8	2' 8"	2.8	2.1	5.5	4.8	3.9	2.8
7/8	5	10	3' 2"	3.4	2.6	6.8	5.9	4.8	3.4
1	6	12	3' 8"	4.9	3.6	9.7	8.4	6.9	4.9
1 1/8	7	14	4' 4"	6.6	4.9	13.0	11.0	9.3	6.6
1 1/4	8	16	4' 10"	8.5	6.4	17.0	15.0	12.0	8.5
1 3/8	9	18	5' 6"	10.0	7.8	21.0	18.0	15.0	10.0
1 1/2	10	20	6' 2"	13.0	9.6	26.0	22.0	18.0	13.0
1 3/4	11	22	6' 10"	15.0	12.0	31.0	27.0	22.0	15.0
1 7/8	12	24	7' 4"	18.0	14.0	37.0	32.0	26.0	18.0
2	14	28	8' 6"	25.0	18.0	49.0	43.0	35.0	25.0
2 1/4	16	32	9' 10"	32.0	24.0	64.0	55.0	45.0	32.0

\* RATED CAPACITIES BASKET HITCH BASED ON DR RATIO OF 25  
 RATED CAPACITIES BASED ON PIN DIAMETER NO LARGER THAN NATURAL EYE WIDTH OR LESS THAN THE NOMINAL SLING DIAMETER  
 RATED CAPACITIES BASED ON DESIGN FACTOR OF 5  
 HORIZONTAL SLING ANGLES LESS THAN 30 DEGREES SHALL NOT BE USED  
 \*\* When angle of choke (<math>\alpha</math>) is less than 135°, capacity is reduced.  
 Rated Capacities shown apply only to 6 x 19 and 6 x 37 classification wire rope.



## TWO LEGGED BRIDLE SLINGS



Rated Capacity (ton 2000 lbs.)

Rope Size (in.)	Recommended Minimum Length	Rated Capacity (ton 2000 lbs.)			
		Straight Pull	60°	45°	30°
1/4	1' 6"	1.1	.97	.79	.56
1/2	1' 8"	1.7	1.5	1.2	.87
3/4	1' 10"	2.5	2.2	1.8	1.2
7/8	2' 4"	3.4	2.9	2.4	1.7
1	2' 6"	4.4	3.8	3.1	2.2
1 1/8	2' 10"	5.5	4.8	3.9	2.8
1 1/4	3' 4"	6.8	5.9	4.8	3.4
1 1/2	3' 8"	9.7	8.4	6.9	4.9
1 3/4	4' 4"	13.0	11.0	9.3	6.6
1 7/8	5'	17.0	15.0	12.0	8.5
2	5' 10"	21.0	18.0	15.0	10.0
2 1/4	6' 6"	26.0	22.0	18.0	13.0
2 1/2	7'	31.0	27.0	22.0	15.0
2 3/4	7' 6"	37.0	32.0	26.0	18.0
3	9' 2"	49.0	43.0	35.0	25.0

## THREE LEGGED BRIDLE SLINGS



Rated Capacity (ton 2000 lbs.)

Component Part Size (in.)	Recommended Minimum Length	Rated Capacity (ton 2000 lbs.)			
		Straight Pull	60°	45°	30°
1/4	1' 6"	1.7	1.5	1.2	.84
1/2	1' 8"	2.6	2.3	1.8	1.3
3/4	1' 10"	3.7	3.2	2.6	1.9
7/8	2' 4"	5.1	4.4	3.6	2.5
1	2' 6"	6.8	5.7	4.6	3.3
1 1/8	2' 10"	8.3	7.2	5.8	4.1
1 1/4	3' 4"	10.0	8.8	7.2	5.1
1 1/2	3' 8"	15.0	13.0	10.0	7.3
1 3/4	4' 4"	20.0	17.0	14.0	9.9
1 7/8	5'	26.0	22.0	18.0	13.0
2	5' 10"	31.0	27.0	22.0	16.0
2 1/4	6' 6"	39.0	33.0	27.0	19.0
2 1/2	7'	46.0	40.0	33.0	23.0
2 3/4	7' 6"	55.0	48.0	39.0	27.0
3	9' 2"	74.0	64.0	52.0	37.0

## FOUR LEGGED BRIDLE SLINGS



Rated Capacity (ton 2000 lbs.)

Rope Size (in.)	Recommended Minimum Length	Rated Capacity (ton 2000 lbs.)			
		Straight Pull	60°	45°	30°
1/4	1' 6"	2.2	1.9	1.6	1.1
1/2	1' 8"	3.5	3.0	2.5	1.7
3/4	1' 10"	5.0	4.3	3.5	2.5
7/8	2' 4"	6.8	5.8	4.8	3.4
1	2' 6"	8.7	7.6	6.2	4.4
1 1/8	2' 10"	11.0	9.5	7.8	5.5
1 1/4	3' 4"	14.0	12.0	9.6	6.8
1 1/2	3' 8"	19.0	17.0	14.0	9.7
1 3/4	4' 4"	26.0	23.0	19.0	13.0
1 7/8	5'	34.0	30.0	24.0	17.0
2	5' 10"	42.0	36.0	30.0	21.0
2 1/4	6' 6"	51.0	44.0	36.0	26.0
2 1/2	7'	62.0	54.0	44.0	31.0
2 3/4	7' 6"	73.0	63.0	52.0	37.0

RATED CAPACITIES BASED ON DESIGN FACTOR OF 5  
 HORIZONTAL SLING ANGLES LESS THAN 30 DEGREES  
 SHALL NOT BE USED  
 RATED CAPACITIES BASKET HITCH BASED ON D:H RATIO OF 25  
 RATED CAPACITIES BASED ON PIN DIAMETER NO LARGER THAN NATURAL EYE WIDTH OR LESS THAN THE NOMINAL SLING DIAMETER

Rated Capacities above apply only to 6x19 and 6x37 classification wire rope.