

Single part body, hand-spliced wire rope slings

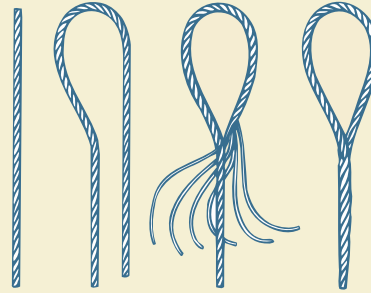


The end of a single wire rope is bent back along the wire rope to form the eye. Strands are hand-tucked into the body of the rope in what is called a tapered and concealed splice. The splice makes a sling that can be easily pulled through narrow spaces because there are no rough ends to snag on loads.

Slings with wire rope bodies larger than 1-1/2" diameter are made only with burnt end splices in which the ends of strands are left exposed and then cut off with a torch. These ends may also be cut shorter and served for smoothness. Either method has the same rated capacity, size for size.

Warning: Hand-spliced slings should not be used in lifts where the sling may rotate and cause the wire rope to unlay.

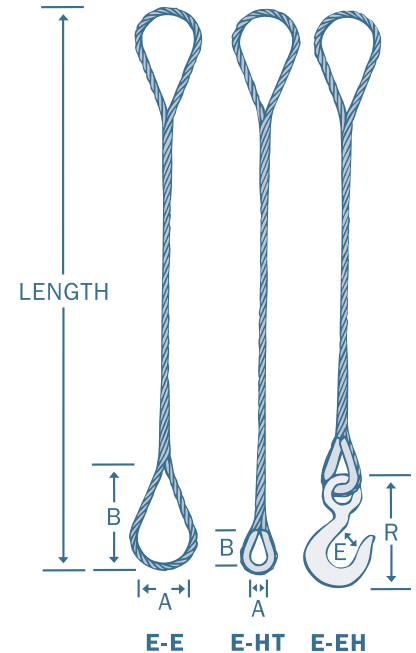
HAND-SPLICED EYE



The tapered and concealed splice utilizes tension in the rope body to secure strands where they are tucked back into the rope. It doesn't require a metal sleeve to assure firm anchoring. When "tapered and concealed," the ends of strands are tucked inward and then concealed inside the rope.

110 FC & IWRC

	RATED CAPACITY - Tons*							E-E Eye Dimensions		E-HT Thimble		E-EH Hook		
	Rope Dia. (in.)	Vert.	Choker Hitch ***	Basket Hitch			A	B	A	B	WLL** Tons	E	R	
				U	60°	45°								30°
6 X 19 XIP®	1/4	0.54	0.42	1.1	0.94	0.77	0.54	2.0	4	0.88	1.63	3/4	0.89	3.34
	5/16	0.83	0.66	1.7	1.4	1.2	0.83	2.5	5	1.06	1.88	1	0.91	3.81
	3/8	1.2	0.94	2.4	2.0	1.7	1.2	3	6	1.13	2.13	1-1/2	1.00	4.14
	7/16	1.6	1.3	3.2	2.7	2.2	1.6	3.5	7	1.25	2.38	2	1.09	4.69
	1/2	2.0	1.6	4.0	3.5	2.9	2.0	4	8	1.50	2.75	2	1.09	4.69
	9/16	2.5	2.1	5.0	4.4	3.6	2.5	4.5	9	1.50	2.75	3	1.36	5.77
	5/8	3.1	2.6	6.2	5.3	4.4	3.1	5	10	1.75	3.25	5	1.61	7.37
	3/4	4.3	3.7	8.6	7.4	6.1	4.3	6	12	2.00	3.75	5	1.61	7.37
	7/8	5.7	5.0	11	9.8	8.0	5.7	7	14	2.25	4.25	7-1/2	2.08	9.07
	1	7.4	6.4	15	13	10	7.4	8	16	2.50	4.50	7-1/2	2.08	9.07
1-1/8	9.3	8.1	19	16	13	9.3	9	18	2.88	5.13	10	2.27	10.08	
1-1/4	11	9.9	23	20	16	11	10	20	2.88	5.13	15	3.02	12.53	
6 X 36 XIP®	1-3/8	14	12	27	24	19	14	22	3.50	6.25	15	3.02	12.53	
	1-1/2	16	14	32	28	23	16	24	3.50	6.25	15	3.02	12.53	
	1-5/8	19	16	38	33	27	19	26	4.00	8.00	AH-22	3.02	12.53	
	1-3/4	22	19	44	38	31	22	28	4.50	9.00	AH-30	3.25	14.06	
	2	28	25	56	49	40	28	32	6.00	12.00	AH-37	3.00	18.19	
	2-1/4	35	31	70	61	50	35	36	7.00	14.00	AH-45	3.38	20.12	
	2-1/2	43	38	86	74	61	43	40			AH-45	3.38	20.12	



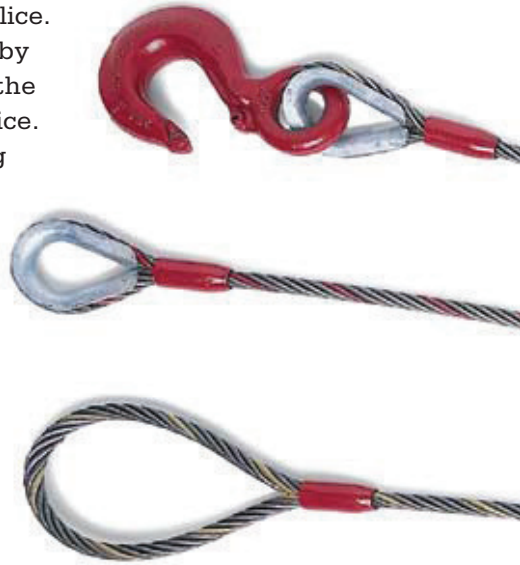
All capacities in tons of 2,000 lbs. All eye and fitting dimensions in inches.
 * Rated Capacities Basket Hitch based on D/d Ratio of 15.
 Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.
 Rated Capacities based on design factor of 5.
 Horizontal sling angles of less than 30° shall not be used.
 ** Working Load Limit, based on standard carbon fittings unless noted otherwise.
 *** See Choker Hitch Rated Capacity Adjustment.



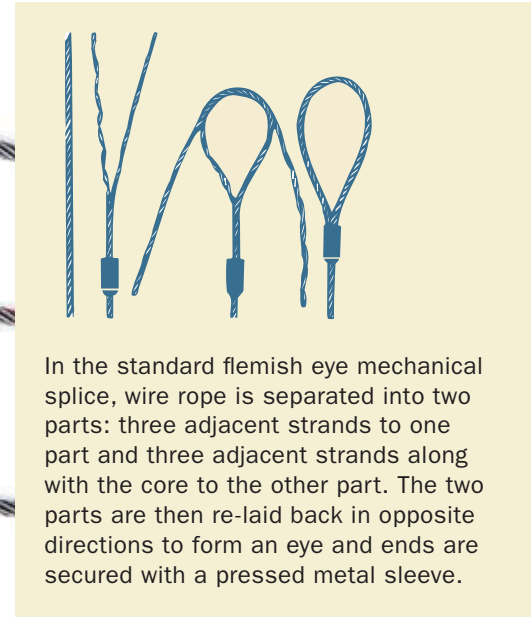
Single part body, mechanically-spliced wire rope slings



Eyes are typically formed using a flemish eye splice. The ends are secured by pressing a metal sleeve over the ends of the strands of the splice. Pull follows a direct line along the center of the rope and eye. Single part body mechanical splice slings have a higher rated capacity than hand-spliced slings.



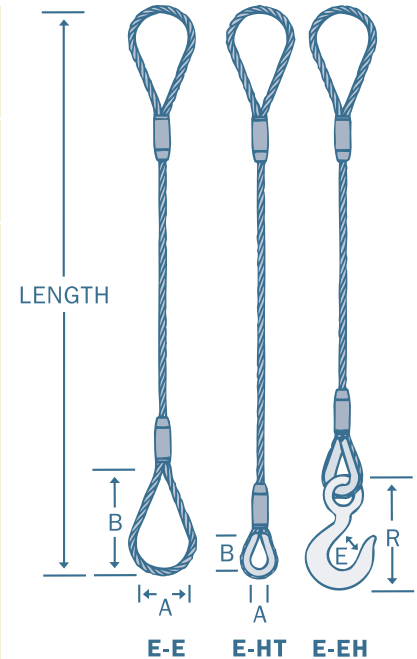
FLEMISH EYE SPLICE



In the standard flemish eye mechanical splice, wire rope is separated into two parts: three adjacent strands to one part and three adjacent strands along with the core to the other part. The two parts are then re-laid back in opposite directions to form an eye and ends are secured with a pressed metal sleeve.

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	Rope Dia. (in.)	RATED CAPACITY - Tons*						E-E Eye Dimensions		E-HT Thimble		E-EH Hook		
		Vert.	Choker Hitch ***	Basket Hitch			A	B	A	B	WLL** Tons	E	R	
				Vert.	60°	45°								30°
6 X 19 XIP®	1/4	0.65	0.48	1.3	1.1	0.91	0.65	2.0	4	0.88	1.63	3/4	0.89	3.34
	5/16	1.0	0.74	2.0	1.7	1.4	1.0	2.5	5	1.06	1.88	1	0.91	3.81
	3/8	1.4	1.1	2.9	2.5	2.0	1.4	3.0	6	1.13	2.13	1-1/2	1.00	4.14
	7/16	1.9	1.4	3.9	3.4	2.7	1.9	3.5	7	1.25	2.38	2	1.09	4.69
	1/2	2.5	1.9	5.1	4.4	3.6	2.5	4.0	8	1.50	2.75	3	1.36	5.77
	9/16	3.2	2.4	6.4	5.5	4.5	3.2	4.5	9	1.50	2.75	5	1.61	7.37
	5/8	3.9	2.9	7.8	6.8	5.5	3.9	5.0	10	1.75	3.25	5	1.61	7.37
	3/4	5.6	4.1	11	9.7	7.9	5.6	6.0	12	2.00	3.75	7-1/2	2.08	9.07
7/8	7.6	5.6	15	13	11	7.6	7.0	14	2.25	4.25	10	2.27	10.08	
1	9.8	7.2	20	17	14	9.8	8.0	16	2.50	4.50	10	2.27	10.08	
1-1/8	12	9.1	24	21	17	12	9.0	18	2.88	5.13	15	3.02	12.53	
1-1/4	15	11	30	26	21	15	10.0	20	2.88	5.13	15	3.02	12.53	
6 X 36 XIP®	1-3/8	18	13	36	31	25	18	11	22	3.50	6.25	AH-22	3.02	12.53
	1-1/2	21	16	42	37	30	21	12	24	3.50	6.25	AH-22	3.02	12.53
	1-5/8	24	18	49	42	35	24	13	26	4.00	8.00	AH-30	3.25	14.06
	1-3/4	28	21	57	49	40	28	14	28	4.50	9.00	AH-37	3.00	18.19
	2	37	28	73	63	52	37	16	32	6.00	12.00	AH-45	3.38	20.12
	2-1/4	44	35	89	77	63	44	18	36	7.00	14.00	AH-60	4.12	23.72
	2-1/2	54	42	109	94	77	54	20	40					
	2-3/4	65	51	130	113	92	65	22	44					
	3	77	60	153	133	108	77	24	48					
	3-1/2	102	79	203	176	144	102	28	56					
4	130	101	260	224	183	130	32	64						



All capacities in tons of 2,000 lbs. All eye and fitting dimensions in inches.

* Rated Capacities Basket Hitch based on D/d 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° shall not be used.

** Working Load Limit, based on standard carbon fittings unless noted otherwise.

*** See Choker Hitch Rated Capacity Adjustment on Page 7.