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Wire Rope Sling Catalog

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Locations





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WIRE ROPE SLINGS

Wire rope slings are the most common type of sling that Kennedy Wire Rope & Sling fabricates. These slings consist

multi-part braided constructions.

Kennedy Wire Rope & Sling fabricates wire rope slings and assemblies with diameters from 1/32" to 4-1/2". We use various types and constructions of wire rope when fabricating slings, bright with an exterior lubrication, galvanized wire, and stainless steel.

depending on applications.

Warranty

Any warranty expressed or implied as to quality performance, or

rated capacities apply only to new, unused slings and assemblies, that the mechanical equipment on which such products are properly stored, handled, and used and maintained, and properly inspected on a regular basis during the period of use.

Seller shall not be liable under any circumstance for consequential or incidental damages or secondary charges including (but not limited to) personal injury

products or from said products being incorporated in or becoming a component of any other product

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The listed capacities of wire rope slings/assemblies in this catalog are based on the industrial standard of a 5 to 1 design factor. This is the method used to determine the working load limit (WLL) of a sling: minimum breaking strength of the wire rope (MBL)

- Type of hitch being used when lifting the load
- · Diameter of the item being lifted where the sling is attached
- Diameter of the hook or shackle where the sling attaches to the lifting device

Efficiency of the end termination or eye splice

Hand spliced eyes:

Rope Diameter	Efficiency
1/4"	90%
5/16"	89%
3/8"	88%
7/16"	87%
1/2"	86%
9/16"	85%
5/8"	84%
3/4"	82%
7/8" to 2-1/2"	80%

Mechanical spliced eyes:

Rope Diameter	Efficiency					
1/4" to 1"	95%					
1-1/8" to 2"	92.5%					
2-1/4" to 4-1/2"	90%					

Swage and spelter sockets:

Rope Diameter	Efficiency
1/4" to 4-1/2"	100%



Type of hitch being used when lifting the load:

Vertical Pull:

A vertical pull is where a sling is hitched between the lifting device and load in a straight line.

Choker Hitch:

A choker hitch is where the eye on one end of the sling is passed through the eye on the other end of the sling and the sling is choked around the load being picked up. The chart below shows the capacity reduction of a sling used in a choker hitch.

Angle of Choke Degree	Rated Capacity %
Over 120	100
90-120	87
60-89	74
30-59	62
0-29	49



Vertical Basket Hitch:

A vertical basket hitch is where the body of the sling supports the load being lifted and the two ends of the sling are attached to the lifting device.



Sling Capacities When Rigged at Various Angles

EXAMPLES:

Load Factor Guidelines

Leg Angle	Load Factor
90°	1.000
85°	1.003
80°	1.015
75°	1.035
70°	1.064
65°	1.103
60°	1.154
55°	1.220
50°	1.305
45°	1.414
40°	1.555
35°	1.743
30°	2.000

A. Vertical lift: Total load is 1,000 lbs. divided by two legs = 500 lbs. load per leg if vertical lift

B. Horizontal sling angle is 60 degrees: Multiply 500 lbs. by 1.154 load factor (from table) = 577 lbs. Actual load per leg.

A. Vertical lift: Total load is 1,000 lbs. divided by two legs = 500 lbs. load per leg if vertical lift

B. Horizontal sling angle is 45 degrees: Multiply 500 lbs. by 1.414 load factor (from table) = 707 lbs. Actual load per leg.

A. Vertical lift: Total load is 1,000 lbs. divided by two legs = 500 lbs. load per leg if vertical lift

B. Horizontal sling angle is 30 degrees: Multiply 500 lbs. by 2.000 load factor (from table) = 1000 lbs. Actual load per leg.



1000 LBS.

1000 LBS.

WARNING: Slings shall not be used with horizontal angles less than 30°.

wire rope slings **D/d Ratios**

When a sling is rigged as a basket, the diameter of the bend where the sling contacts the load can s lifting capacity

the diameter of the bend where the rope contacts the load (represented by "D") by the diameter of the rope or the component rope diameter in a multi-part sling (represented by "d").

For example, if the diameter of the bend ("D") is 10 and the component rope diameter ("d") is 1/2, the D/d ratio is $10 \div 1/2$ or 20.

When using D/d ratios that are smaller than those shown in the table below, the rated capacity of the sling must be decreased.



Standard D/d ratios are applied to determine efficiency of various sling constructions



wire rope slings Care and Maintenance

Wire Rope is lubricated during manufacturing so that the strands - as well as the individual wires in the strands - may move and adjust as the rope moves and bends. No wire rope can be lubricated sufficiently during manufacturing to last its entire life. That's why it's important to lubricate periodically through the life of the rope.

The surface of some ropes may be covered with dirt, rock dust or other material during their operation. This can prevent field-applied lubricants from properly penetrating into the rope, so it's a good practice to clean these ropes before you lubricate them.

The lubricant you apply should be light-bodied enough to penetrate to the rope's core. You can normally apply lubricant by using one of three methods:

- Drip it on the rope
- Spray it on the rope
- Brush it onto the rope

Your rope's service life will be directly proportional to the effectiveness of the method you use and the amount of lubricant that reaches the ropes working parts.

A proper lubricant must reduce friction, protect against corrosion and adhere to every wire. It should also be pliable and not crack or separate when cold - yet not drip when warm. Never apply heavy grease to the rope because it can trap excessive grit which can damage the rope. Nor should you apply used "engine oil" because it contains materials that can damage the wire rope.

Wire Rope Sling Storage and Handling

Wire Rope slings should be kept in an area where exposure to water, extreme heat or corrosive fumes, liquids and sprays are non-existent.

Slings should also be kept out of the way where they may get ran over by vehicles or kinked.

Slings should never be left beneath loads or laying where they could be possibly damaged.

Wire Rope Sling Temperature

Wire rope should be protected from extreme temperatures. Steel core (IWRC) slings should never be used at 400° F or more and never below -40°F.

It is not always easy to spot when wire rope has been damaged by heat. The most visible signs are loss of lubrication, discoloration and fusing of the wires.

If there is even the slightest suspicion that a sling was exposed to heat then it should be removed from service immediately.

WIRE ROPE SLINGS **Inspection Criteria**



Before using slings, inspect them to be sure they meet the requirements for that application.

HOW OFTEN TO INSPECT

Both AMSE Standard B30.9 and OSHA require that wire ropes receive two types of inspections:

1. A DAILY VISUAL INSPECTION The person handling the sling must do this each day and should check for major damage or deterioration that would weaken the sling and for obvious signs such as broken wires, kinks, crushing, broken attachments and severe corrosion.

2. ADDITIONAL INSPECTIONS AT REGULAR

INTERVALS These are based on frequency of sling use, severity of service conditions, the nature of the lifts and prior experience based on service life of slings used in similar circumstances. A designated person who has a working knowledge of wire rope must conduct these inspections.

Inspection shall be made at least annually and shall include a record of the inspection or of apparent conditions to provide the basis for a continuing evaluation. Inspection shall be conducted on the entire length of the

HOW TO INSPECT

ducting inspections:

1. Place the sling in a position that enables the inspector to access and see every part of the sling.

3. Examine the entire length of the sling thoroughly, especially the parts showing the most wear.

5. Find the most worn or damaged section of the sling and carefully check it against removal criteria.

6. Label or identify all slings you have inspected.

7. Keep records of all inspections, including dates and conditions of slings.

8. Immediately destroy all slings you have rejected.

9. Store slings you want to reuse in a safe place away from damaging weather, heat and dirt.

WHEN TO REPLACE YOUR WIRE ROPE SLING

According to ASME B30.9, you must remove a wire rope sling from service immediately if any of the following conditions are present:

1. RATED CAPACITY TAG Missing or illegible sling

2. BROKEN WIRES For single part body slings and strand laid grommets: 5 broken wires in one strand in one rope lay or 10 broken wires in all strands in one rope lay. For cable-laid grommets and multi-part slings, use the following guidelines.

ALLOWABLE BROKEN WIRES

Cable-laid grommet 20 per lay Less than 8-part braid 20 per braid 8-part braid or more 40 per braid

3. METAL LOSS Wear or scraping of one-third the original diameter of the outside individual wires.

4. **DISTORTION** Such as kinking, crushing or bird-caging. Look closely for wires or strands that may have been pushed out of their original positions in the rope.

5. HEAT DAMAGE Any metallic discoloration or loss of internal lubricant caused by heat exposure.

6. DAMAGED END ATTACHMENTS Cracked, bent Also, any evidence that eye splices have slipped, or tucked strands have moved.

7. **BENT HOOKS** deformation - any visible apparent bend or twist from the plane of the unbent hook. Throat opening - any distortion causing an increase in throat opening of 5% not to exceed 1/4 in. (66mm) (or as recommended by manufacturer).

8. METAL CORROSION Severe corrosion of the rope or end attachments that has caused pitting or binding S

strength.

HOW TO DISPOSE OF A REJECTED WIRE ROPE SLING

longer usable, he should tag it immediately, "Do Not Use." The sling should then be destroyed as soon as

This will prevent accidental reuse of the sling.

For more information, visit us at www.kwrs.com



TYPE 110 EIP FC or IWRC: Hand Spliced Slings Rated Capacity - US Tons



	Vert	Choker Hitch	Basket Hitch				Eye Dimensions (")		Thimble Dimensions (")		Alloy Hook	
	Dia.	9	Ŷ	9 9	Å	Å	\land	A	в	Α	в	WLL
		6	Ø	\cup	60	45	30					Tons
	1/4	0.54	0.42	1.1	0.94	0.77	0.54	2.0	4	0.88	1.63	1
	5/16	0.83	0.66	1.7	1.4	1.2	0.83	2.5	5	1.06	1.88	1
	3/8	1.2	0.94	2.4	2.0	1.7	1.2	3.0	6	1.13	2.13	1 1/2
	7/16	1.6	1.3	3.2	2.7	2.2	1.6	3.5	7	1.25	2.38	2
6X19 OR 6X36	1/2	2.0	1.6	4.0	3.5	2.9	2.0	4.0	8	1.5	2.75	3
EIP	9/16	2.5	2.1	5.0	4.4	3.6	2.5	4.5	9	1.5	2.75	5
	5/8	3.1	2.6	6.2	5.3	4.4	3.1	5.0	10	1.75	3.25	5
	3/4	4.3	3.7	8.6	7.4	6.1	4.3	6.0	12	2.0	3.75	7
	7/8	5.7	5.0	11	9.8	8.0	5.7	7.0	14	2.25	4.25	11
	1	7.4	6.4	15	13	10	7.4	8.0	16	2.5	4.5	11
	1 1/8	9.3	8.1	19	16	13	9.3	9.0	18	2.88	5.13	15
	1 1/4	11	9.9	23	20	16	11	10	20	2.88	5.13	15
	1 3/8	14	12	27	24	19	14	11	22	3.5	6.25	22
	1 1/2	16	14	32	28	23	16	12	24	3.5	6.25	22
0A30 EIP	1 3/4	22	19	44	38	31	22	14	28	4.5	9.0	30
	2	28	25	56	49	40	28	16	32	6.0	12	37
	2 1/4	35	31	70	61	50	35	18	36	7.0	14	45
	2 1/2	43	38	86	74	61	43	20	40	8.0	17.5	60

Rated Capacities in 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.

Note: Hidden tuck splice available

Sling and load shall not be allowed to rotate to insure splice does not come undone.



TYPE 115 EIP IWRC: Mechanical Spliced Slings Rated Capacity - US Tons



	Vert		Choker Hitch	Basket Hitch				Eye Dimensions (")		Thimble Dimensions (")		Alloy Hook
	Dia.	Ŷ	g	99	Å	Å	A	A	в	A	в	WLL
		6	O		60	45	30					TONS
	1/4	0.65	0.48	1.3	1.1	0.91	0.65	2.0	4	0.88	1.63	1
	5/16	1.0	0.74	2.0	1.7	1.4	1.0	2.5	5	1.06	1.88	1
6X19 OR 6X36 EIP	3/8	1.4	1.1	2.9	2.5	2.0	1.4	3.0	6	1.13	2.13	1 1/2
	7/16	1.9	1.4	3.9	3.4	2.7	1.9	3.5	7	1.25	2.38	2
	1/2	2.5	1.9	5.1	4.4	3.6	2.5	4.0	8	1.5	2.75	3
	9/16	3.2	2.4	6.4	5.5	4.5	3.2	4.5	9	1.5	2.75	5
	5/8	3.9	2.9	7.8	6.8	5.5	3.9	5.0	10	1.75	3.25	5
	3/4	5.6	4.1	11	9.7	7.9	5.6	6.0	12	2.0	3.75	7
	7/8	7.6	5.6	15	13	11	7.6	7.0	14	2.25	4.25	11
	1	9.8	7.2	20	17	14	9.8	8.0	16	2.5	4.5	11
	1 1/8	12	9.1	24	21	17	12	9.0	18	2.88	5.13	15
	1 1/4	15	11	30	26	21	15	10	20	2.88	5.13	15
	1 3/8	18	13	36	31	25	18	11	22	3.5	6.25	22
	1 1/2	21	16	42	37	30	21	12	24	3.5	6.25	22
	1 3/4	28	21	57	49	40	28	14	28	4.5	9.0	30
	2	37	28	73	63	52	37	16	32	6.0	12	37
6X36 EIP	2 1/4	44	35	89	77	63	44	18	36	7.0	14	45
	2 1/2	54	42	109	94	77	54	20	40	8.0	17.5	60
	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			
	4 1/2	160	120	320	277	226	160	36	72			

Rated Capacities in 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 of less than 30° shall not be used.

TYPE 125 EIP IWRC: Mechanical Spliced Two Leg Spreaders Rated Capacity - US Tons

	Rope Dia.	RATE	D CAP (Tons)	ACITY	Alloy Oblong	Alloy Hook
	(")	Å	Å	Å	Dia.	WLL
		60	45	30	(")	Tons
	1/4	1.1	0.91	0.65	0.50	1
	5/16	1.7	1.4	1.0	0.50	1
	3/8	2.5	2.0	1.4	0.50	1 1/2
6v10 OP	7/16	3.4	2.7	1.9	0.75	2
6v36	1/2	4.4	3.6	2.5	0.63	3
FID	9/16	5.5	4.5	3.2	0.875	5
LIF	5/8	6.8	5.5	3.9	1.0	5
	3/4	9.7	7.9	5.6	1.0	7
	7/8	13	11	7.6	1.25	11
	1	17	14	9.8	1.50	11
	1 1/8	21	17	12	1.50	15
	1 1/4	26	21	15	1.75	15
Gy26 EID	1 3/8	31	25	18	1.75	22
UX30 EIP	1 1/2	37	30	21	2.0	22
	1 3/4	49	40	28	2.25	30
	2	63	52	37	2.5	37



Rated Capacities based on design factor of 5. Horizontal sling angles of less than 30° shall not be used.

TYPE 135 EIP IWRC: Mechanical Spliced Three Leg Spreaders Rated Capacity - US Tons

	Rope Dia.	RATED CAPACITY (Tons)			Alloy Oblong	Alloy Hook
	(")	Å	Å	Å	Dia.	WLL
		60	45	30	(")	Tons
	1/4	1.7	1.40	0.97	0.75	1
	5/16	2.6	2.1	1.5	0.75	1
0	3/8	3.7	3.0	2.2	0.75	1 1/2
	7/16	5.0	4.1	2.9	0.75	2
6x26	1/2	6.6	5.4	3.8	1.0	3
EID	9/16	8.3	6.8	4.8	1.0	5
LIP	5/8	10	8.3	5.9	1.0	5
	3/4	15	12	8.4	1.25	7
	7/8	20	16	11	1.5	11
	1	26	21	15	1.5	11
	1 1/8	31	26	18	2	15
	1 1/4	38	31	22	2	15
6x36 EIP	1 3/8	46	38	27	2.25	22
	1 1/2	55	45	32	2.5	22
	1 3/4	74	60	42	2.75	30





Master Link with Sub-Assemblies Optional

Rated Capacities based on design factor of 5. Horizontal sling angles of less than 30° shall not be used.

TYPE 145 EIP IWRC: Mechanical Spliced Four Leg Spreaders Rated Capacity - US Tons

	Rope Dia.	F CA (RATEI PACI Tons) ТҮ)	Alloy Oblong	Alloy Hook
	(")	Å	\mathbb{A}	\land	Dia.	WLL
		60	45	30	(")	Tons
	1/4	2.2	1.8	1.3	1/2"	1
	5/16	3.5	2.8	2.0	3/4"	1
0.40 00	3/8	5.0	4.1	2.9	3/4"	1 1/2
	7/16	6.7	5.5	3.9	7/8"	2
6y26	1/2	8.8	7.1	5.1	1"	3
EID	9/16	11	9.0	6.4	1"	5
LIF	5/8	14	11	7.8	1.25	5
	3/4	19	16	11	1.5	7
	7/8	26	21	15	1.75	11
	1	34	28	20	2.0	11
	1 1/8	42	34	24	2.25	15
Gy26 EID	1 1/4	51	42	30	2.5	15
0X30 EIP	1 3/8	62	50	36	2.75	22
	1 1/2	73	60	42	3 1/2"	22





Master Link with Sub-Assemblies Optional

Rated Capacities based on design factor of 5. Horizontal sling angles of less than 30° shall not be used. WIRE ROPE SLINGS



TYPE 315 EIP: Three-Part Braided Sling Rated Capacity - US Tons



			RATE				
				(Tons)	Eye		
	Rope Dia. (")	Sling Dia. (")	Vertical	Hitch Choker	Basket	Dimens	ions (")
			Î	ð	Ů	Eye Width	Eye Length
	1/4	1/2	1.7	1.3	3.4	2	4
	5/16	5/8	2.6	1.9	5.2	3	6
	3/8	3/4	3.6	2.7	7.2	4	8
6X19	7/16	7/8	4.9	3.7	9.8	5	10
0K 6y36	1/2	1	6.4	4.8	12	6	12
EIP	9/16	1 1/8	8	6	16	7	14
	5/8	1 1/4	9.9	7.4	19	8	16
	3/4	1 1/2	14	10	28	10	20
	7/8	1 3/4	19	14	38	12	24
	1	2	24	18	49	14	28
	1 1/8	2 1/4	31	23	62	16	32
	1 1/4	2 1/2	38	28	76	18	36
	1 3/8	2 3/4	46	34	92	20	40
	1 1/2	3	55	41	110	22	44
	1 3/4	3 1/2	73	54	146	26	52
	2	4	95	71	190	28	56
6X36	2 1/4	4 1/2	118	88	236	32	64
EIP	2 1/2	5	145	109	290	36	72
	2 3/4	5 1/2	173	130	346	40	80
	3	6	204	153	408	44	88
	3 1/2	7	270	202	540	48	96
	4	8	343	257	686	56	112
	4 1/2	9	384	288	768	63	126

Rated Capacities in Basket Hitch based on D/d ratio of 5 times the sling diameter.

Rated capacities based on D/d ratio of 1.5 times the sling diameter inside the eye.

Note: Locked eyes available

TYPE 615 EIP IWRC: Six-Part Braided Sling Rated Capacity - US Tons

				RATED	CAPACITY	(Tons)	Eve Dim	ensions	Slip Thru	Heavy
	Rope Dia (")	Width of	f of body	Vertical Hitch Choker		Hitch Basket	(")		Thimble	Thimble
		bouy()	(")		ð	\bigcup	Α	В	ST	нт
	1/4	1 1/8	11/16	2.9	2.5	5.7	5	10	ST 20	5/8
	5/16	1 3/8	7/8	4.4	3.9	8.9	6	12	ST 20	3/4
	3/8	1	1	6.3	5.5	13	7	14	ST 24	7/8
	7/16	2	1 3/16	8.6	7.5	17	8	16	ST 24	1
6X19 OR 6X36 EIP	1/2	2 1/4	1 5/16	11	9.8	22	9	18	ST 36	1 1/8
	9/16	2 1/2	1 1/2	14	12	28	10	20	ST 36	1 3/8
	5/8	2 13/16	1 11/16	17	15	35	11	22	ST 44	1 1/2
	3/4	3 3/8	2	26	22	49	12	24	ST 52	1 5/8
	7/8	4	2 5/16	33	29	67	14	28	ST 60	2
	1	4 1/2	2 11/16	43	38	87	16	32	ST 68	2 1/4
	1 1/8	5 1/16	3	55	48	109	18	36	ST 80	2 1/2
	1 1/4	5 5/8	3 5/16	67	59	134	20	40	ST 80	
6X36	1 3/8	6 3/16	3 11/16	81	71	161	22	44	ST 80	
EIP	1 1/2	6 3/4	4	96	84	192	24	48		
	1 3/4	7 7/8	4 11/16	129	112	257	28	56		
	2	9	5 5/16	166	146	333	32	64		

Rated Capacities Basket Hitch based on D/d ratio of 25 times the component rope diameter.

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.

TYPE 815 EIP IWRC: Eight-Part Braided Sling Rated Capacity - US Tons

		RATED	CAPACITY	(Tons)	Eye Dim	ensions	Slip	Heavy
	Rope	Vertical	Hitch Choker	Hitch Basket	(")	Thimble	Thimble
	Dia. (*)		₽	Ů	А	В	Slip Thru Thimble ST ST 20 ST 24 ST 26 ST 24 ST 36 ST 44 ST 52 ST 60 ST 68 ST 60 ST 68 ST 80 ST 80	нт
	1/4	3.8	3.3	7.6	5	10	ST 20	7/8
	5/16	5.9	5.2	12.0	6	12	ST 24	1
X19 OR	3/8	8.5	7.4	17.0	7	14	ST 36	1 1/8
5X19 OR 5X36 EIP	7/16	11	10	23	8	16	ST 36	1 1/4
	1/2	15	13	30	9	18	ST 44	1 1/2
	9/16	19	16	38	10	20	ST 52	1 3/4
	5/8	23	20	46	11	22	ST 60	2
	3/4	33	29	66	12	24	ST 68	2 1/4
	7/8	45	39	89	14	28	ST 80	2 1/2
	1	58	51	116	16	32	ST 80	2 1/2
	1 1/8	72	64	146	18	36		
	1 1/4	89	78	179	20	40		
	1 3/8	108	94	215	22	44		
X36 EIP	1 1/2	128	112	255	24	48		
	1 3/4	171	150	343	28	56		
	2	222	194	444	32	64		

Rated Capacities Basket Hitch based on D/d ratio of 25 times the component rope diameter.

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.

TYPE 915 EIP IWRC: Nine-Part Braided Sling Rated Capacity - US Tons

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Eye ength (") 12 12 13 13 20 24 24
6X19 OR 6X36 EIP 1/4 1 4.3 3.2 8.6 6 9000 EID 1/4 1/4 1/4 6.6 5 13 6 1/4 1 1/2 9.5 7.1 19 7 1/2 7/16 1 3/4 14 11 29 9 9 1/2 2 19 14 38 10 10 10 9/16 2 3/16 24 18 48 12 12 5/8 2 1/2 29 22 59 12 12 3/4 3 42 32 84 15 15 7/8 3 1/2 57 43 114 17 1 4 74 56 148 20 11/8 22 13/8 104 276 27 13/8 13/8 5 1/2 138 104 276 27 13/4 13/4<	12 12 13 18 20 24 24
6X19 OR 5/16 1 1/4 6.6 5 13 6 3/8 1 1/2 9.5 7.1 19 7 1/2 7/16 1 3/4 14 11 29 9 1/2 2 19 14 38 10 9/16 2 3/16 24 18 48 12 5/8 2 1/2 29 22 59 12 3/4 3 42 32 84 15 7/8 3 1/2 57 43 114 17 1 4 74 56 148 20 11/8 4 1/2 93 60 187 22 11/4 5 115 86 230 25 13/8 5 1/2 138 104 276 27 11/2 6 164 123 328 30 13/4 7 220 165 440 35	12 13 18 20 24 24
6X19 OR 3/8 1 1/2 9.5 7.1 19 7 1/2 7/16 1 3/4 14 11 29 9 1/2 2 19 14 38 10 9/16 2 3/16 24 18 48 12 5/8 2 1/2 29 22 59 12 3/4 3 42 32 84 15 7/8 3 1/2 57 43 114 17 1 4 74 56 148 20 11/8 4 1/2 93 60 187 22 11/4 5 115 86 230 25 13/8 5 1/2 138 104 276 27 11/2 6 164 123 328 30 13/4 7 220 165 440 35 2 8 285 214 570 40	13 18 20 24 24
6X19 OR 6X36 EIP 7/16 1 3/4 14 11 29 9 1/2 2 19 14 38 10 9/16 2 3/16 24 18 48 12 5/8 2 1/2 29 22 59 12 3/4 3 42 32 84 15 7/8 3 1/2 57 43 114 17 1 4 74 56 148 20 11/8 4 1/2 93 60 187 22 1 1/8 4 1/2 93 60 187 22 1 1/4 5 115 86 230 25 1 3/8 5 1/2 138 104 276 27 1 1/2 6 164 123 328 30 1 3/4 7 220 165 440 35 2 8 285 214 570 40	18 20 24 24
6X19 OR 6X36 EIP 1/2 2 19 14 38 10 9/16 2 3/16 24 18 48 12 5/8 2 1/2 29 22 59 12 3/4 3 42 32 84 15 7/8 3 1/2 57 43 114 17 1 4 74 56 148 20 1 1/8 4 1/2 93 60 187 22 1 1/4 5 115 86 230 25 1 3/8 5 1/2 138 104 276 27 1 1/2 6 164 123 328 30 1 3/4 7 220 165 440 35 2 8 285 214 570 40	20 24 24
6X36 EIP 9/16 2 3/16 24 18 48 12 5/8 2 1/2 29 22 59 12 3/4 3 42 32 84 15 7/8 3 1/2 57 43 114 17 1 4 74 56 148 20 1 1/8 4 1/2 93 60 187 22 1 1/8 4 1/2 93 60 187 22 1 1/4 5 115 86 230 25 1 3/8 5 1/2 138 104 276 27 1 1/2 6 164 123 328 30 1 3/4 7 220 165 440 35 2 8 285 214 570 40	24 24
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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	30
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	34
1 1/8 4 1/2 93 60 187 22 1 1/4 5 115 86 230 25 1 3/8 5 1/2 138 104 276 27 1 1/2 6 164 123 328 30 1 3/4 7 220 165 440 35 2 8 285 214 570 40	40
1 1/4 5 115 86 230 25 1 3/8 5 1/2 138 104 276 27 1 1/2 6 164 123 328 30 1 3/4 7 220 165 440 35 2 8 285 214 570 40	44
1 3/8 5 1/2 138 104 276 27 1 1/2 6 164 123 328 30 1 3/4 7 220 165 440 35 2 8 285 214 570 40	50
1 1/2 6 164 123 328 30 1 3/4 7 220 165 440 35 2 8 285 214 570 40	54
1 3/4 7 220 165 440 35 2 8 285 214 570 40	60
	70
	80
6X36 EIP 21/4 9 355 267 711 45	90
2 1/2 10 434 326 869 50	100
2 3/4 11 485 358 970 55	110
3 12 574 424 1148 60	120
3 1/2 14 761 563 1421 70	140
4 16 972 719 1544 80	160
4 1/2 18 1200 888 2400 90	400

RATED CAPACITY (Tons)

Rated Capacities based on pin diameter no larger than natural width or less than the nominal diameter

Rated Capacities in basket hitch based on D/d ratio of 5 times the sling body diameter

Rated Capacities based on design factor of 5.

Horizontal sling angles of less than 30° shall not be used.

WIRE ROPE SLINGS

TYPE 8P1 7X19: Galvanized Braided Sling Rated Capacity - US Tons



Rop		Sling	Rates Capacity in Tons			Eye Dimensions (")		Slip Thru Thimble	Heavy Thimble			
	Dia. (")	Dia. (")	Vertical	Choker Hitch		Baske	t Hitch			-	OT	
			Ŷ	Ŷ	99	60	45	30	A	в	51	ні
				đ	\cup	4	Å	Å				
	1/8	9/16	1.1	1.0	2.2	1.9	1.6	1.1	3	6	ST 10	1/2
7740	3/16	13/16	1.9	1.6	3.7	3.2	2.6	1.9	4	8	ST 16	5/8
GALV.	1/4	1 1/8	3.3	2.9	6.6	5.7	4.7	3.3	5	10	ST 20	7/8
	5/16	1 3/8	5.1	4.5	10	8.9	7.3	5.1	6	12	ST 24	1
	3/8	1 11/16	7.3	6.4	15	13	10	7.3	7	14	ST 36	1 1/8

Made with 7x19 GAC component rope.

Rated Capacities in Basket Hitch based on D/d ratio of 25 times the component rope diameter.

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.

TYPE 8P2 7X19: Two-Leg Galvanized Braided Sling Rated Capacity - US Tons

		Dana	Cling	Single	Rated Leas in	Capacity i n a Choke	n Tons r Hitch	Alloy Oblong
		Dia. (")	Dia. (")	Leg	60	45	30	Link
				Choker	Å	Å	Å	Oblong Link Dia. (") 1/2 1/4 1 1 1/4 1 1/4
		1/8	9/16	1	1.7	1.4	0.98	1/2
	7X19 GALV.	3/16	13/16	1.6	2.8	2.3	1.6	1/4
		1/4	1 1/8	2.9	5	4.1	2.9	1
		5/16	1 3/8	4.5	7.8	6.3	4.5	1 1/4
		3/8	1 11/16	6.4	11	9.1	6.4	1 1/4
		Made with Rated Cap Horizontal	7x19 GAC bacities base sling angles	component i ed on desigr s less than 3	rope. a factor of 5 30° shall not	be used.		

TYPE 8P3 7X19: Three-Leg Galvanized Braided Sling Rated Capacity - US Tons

			Qingle	Rated (n Tons	Alloy				
	Rope	Sling	Single	Legs ir	n a Choke	r Hitch	Oblong Link Dia			
	Dia. (")	Dia. (")	Leg	60	45	30				
			CHOKEI	Å	Å	Å	(")			
7X19	1/8	9/16	1	2.5	2.1	1.5	3/4			
	3/16	13/16	1.6	4.3	3.5	2.5	3/4			
	1/4	1 1/8	2.9	7.5	6.1	4.3	1 1/4			
UALV.	5/16	1 3/8	4.5	12	9.5	6.7	1 1/2			
	3/8	1 11/16	6.4	17	14	9.6	2			

Made with 7x19 GAC component rope. Rated Capacities based on design factor of 5. Horizontal sling angles less than 30° shall not be used.

Master Link with

Sub-Assemblies Optional

000

TYPE 8P4 7X19: Four-Leg Galvanized Braided Sling Rated Capacity - US Tons

				Rated	Tons	Allow			
	Rope Dia. (")	Sling Dia.	Single	Legs i	n a Choker	Hitch	Alloy Oblong		
		(")	Leg	60	45	30	l ink Dia		
			Choker	Å	Å	Å	(")		
7X19 GALV.	1/8	9/16	1	3.4	2.8	2	1		
	3/16	13/16	1.6	5.7	4.6	3.3	1 1/2		
	1/4	1 1/8	2.9	10	8.1	5.8	1 3/4		
	5/16	1 3/8	4.5	16	13	9	2		
	3/8	1 11/16	6.4	22	18	13	2 3/4		

Made with 7x19 GAC component rope. Rated Capacities based on design factor of 5. Horizontal sling angles less than 30° shall not be used.



Master Link with Sub-Assemblies Optional WIRE ROPE ASSEMBLIES



TYPE 110 EIP IWRC: Spelter Socket Assembly Rated Capacity - US Tons



110 Spoltor	Rat	ted
Spelter	in T	one
SUCKEL		
Dia. (")	EIP	EEIP
1/4	0.68	0.75
5/16	1.1	1.2
3/8	1.5	1.7
7/16	2	2.2
1/2	2.7	2.9
9/16	3.4	3.7
5/8	4.1	4.5
3/4	5.9	6.5
7/8	8	8.8
1	10	11
1 1/8	13	14
1 1/4	16	18
1 3/8	19	21
1 1/2	23	25
1 5/8	26	29
1 3/4	31	34
1 7/8	35	38
2	40	43
2 1/8	44	49
2 1/4	49	54
2 3/8	55	60
2 1/2	60	66
2 5/8	66	73
2 3/4	72	79
2 7/8	78	86
3	85	94
3 1/8	92	101
3 1/4	98	108
3 3/8	106	116
3 1/2	113	124
3 3/4	128	141
4	144	
4 1/2	178	

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TYPE 115 EIP IWRC: Swaged Socket Assembly Rated Capacity - US Tons



	Diameter (")	Rated Capa	city (Tons)	
		EIP	EEIP	
	1/4	0.68	0.74	
	5/16	1.1	1.2	
	3/8	1.5	1.7	
	7/16	2	2.2	
6X19 OR	1/2	2.7	2.9	
6X36 EIP	9/16	3.4	3.7	
	5/8	4.1	4.5	
	3/4	5.9	6.5	
	7/8	1/2 2.7 2 0/16 3.4 3 5/8 4.1 4 3/4 5.9 6 7/8 8 8 1 10 1 1/8 13 1	8.8	
	1	10	11	
	1 1/8	13	14	
	1 1/4	16	18	
	1 3/8	19	21	
0AJU EIP	1 1/2	23	25	
	1 3/4	31	34	
	2	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	43	

Rated capacities based on a design factor of 5.



TYPE 210 EIP IWRC: Strand Laid Hand Splice Continuous Construction Grommet Rated Capacity - US Tons

				R	ATED CAPA	ACITY - Ton	S	
		Sling	Π	ົ		Basket	Hitch	
		Body Dia. (")	U	ð	\bigcirc	\bigcirc	\bigcirc	\bigcirc
			Vertical	Choker	Vertical	60 °	45°	30°
		1/4	0.94	0.66	1.9	1.6	1.3	0.94
		5/16	1.5	1	2.9	2.5	2.1	1.5
	6X19 OR 6X36 EIP	3/8	2.1	1.5	4.2	3.6	3.0	2.1
		7/16	2.8	2	5.7	4.9	4.0	2.8
		1/2	3.7	2.6	7.3	6.4	5.2	3.7
		9/16	4.6	3.2	9.3	8.0	6.6	4.6
		5/8	5.7	4	11	9.9	8.1	5.7
		3/4	8.2	5.7	16	14	12	8.2
		7/8	11	7.7	22	19	16	11
		1	14	10	29	25	20	14
		1 1/8	18	12	35	31	25	18
	6X36 EIP	1 1/4	21	15	43	37	30	21
		1 3/8	25	18	51	44	36	25
		1 1/2	30	21	60	52	42	30
		1 3/4	40	28	79	69	56	40
		2	50	35	101	87	71	50
		2 1/4	62	43	124	107	88	62
		2 1/2	75	52	149	129	106	75
		2 3/4	89	62	177	154	125	89
		3	104	73	207	180	147	104

Rated Capacities based on design factor of 5. Horizontal sling angles less than 30° shall not be used. Rated Capacities based on D/d ratio of 5.

TYPE 215 EIP IWRC: Mechanical Splice Grommet Rated Capacity - US Tons

				RATED CAP	ACITY - Tons	;	
2		Ω	n		Basket	Hitch	
	Sling Body Dia. (")	U		\square	\bigcirc	\bigcirc	\bigcirc
		Vertical	Choker	Vertical	60 °	45°	30°
	1/4	1.1	0.74	2.1	1.8	1.5	1.10
	5/16	1.6	1.2	3.3	2.8	2.3	1.6
	3/8	2.4	1.6	4.7	4.1	3.3	2.4
	7/16	3.2	2.2	6.4	5.5	4.5	3.2
6X19 OR	1/2	4.1	2.9	8.3	7.2	5.9	4.1
6X36 EIP	9/16	5.2	3.7	10	9.1	7.4	5.2
	5/8	6.4	4.5	13	11.0	9.1	6.4
	3/4	9.2	6.4	18	16	13	9.2
	7/8	12	8.7	25	22	18	12
	1	16	11	32	28	23	16
	1 1/8	20	14	41	35	29	20
	1 1/4	25	17	50	43	35	25
	1 3/8	30	21	60	52	42	30
	1 1/2	36	25	71	62	50	36
	1 3/4	48	33	95	83	68	48
	2	62	43	124	107	87	62
6X36 EIP	2 1/4	77	54	154	133	109	77
	2 1/2	94	66	188	163	133	94
	2 3/4	113	79	225	195	159	113
	3	133	93	265	230	188	133
	3 1/2	176	123	352	304	248	176
	4	225	157	450	389	317	225
	4 1/2	278	194	555	481	392	278

Rated Capacities based on design factor of 5. Horizontal sling angles less than 30° shall not be used. Rated Capacities based on D/d ratio of 5.





			RAT	ED CAPAC	CITY - TON	IS		
			Ω	ກ		Basket	Hitch	
	Sling Body Dia.	Comp Rope Dia.	U		(\bigcirc	\bigcirc	\bigcirc
			Vertical	Choker	Vertical	60°	45°	30°
	3/4	1/4	5.6	3.6	11	9.7	7.90	5.6
	15/16	5/16	8.7	5.6	17	15.0	12	8.7
	1 1/8	3/8	12	8	25	21.0	17	12
	1 5/16	7/16	17	11	33	29.0	23	17
6X19 OR	1 1/2	1/2	21	14	43	37.0	30	21
6X36 EIP	1 11/16	9/16	27	17	53	46.0	38	27
	1 7/8	5/8	33	21	66	57.0	46	33
	2 1/4	3/4	46	30	92	80	65	46
-	2 5/8	7/8	62	40	123	107	87	62
	3	1	79	51	158	137	112	79
6X36 EIP	3 3/8	1 1/8	98	64	196	170	138	98
	3 3/4	1 1/4	119	77	237	205	168	119

Rated Capacities based on design factor of 5.

Horizontal sling angles less than 30° shall not be used.

Rated Capacities based on D/d ratio of 5.



TYPE CL15: Galvanized Cable Laid Single Part Sling Rated Capacity - US Tons



		Vertical	Choker Hitch		Baske	t Hitch		Eye Dime	ensions (")	Thi Dime	Alloy Hook	
	Rope Dia. (")	Ŷ	9-6	ŶŶ	\bigwedge	\mathbb{A}	\langle	А	в	А	в	WLL Tons
		0	0		60°	45°	30°					
	1/4	0.50	0.34	1.0	0.87	0.71	0.50	2.0	4	0.88	1.63	1
77777	3/8	1.1	0.74	2.2	1.9	1.5	1.1	3.0	6	1.13	2.13	1 1/2
17171	1/2	1.9	1.3	3.7	3.2	2.6	1.9	4.0	8	1.5	2.75	2
	5/8	2.8	1.9	5.5	4.8	3.9	2.8	5.0	10	1.75	3.25	3
	3/4	4.1	2.8	8.1	7.0	5.8	4.1	6.0	12	2.0	3.75	5
	7/8	5.4	3.7	11	9.4	7.6	5.4	7.0	14	2.25	4.25	7
7X7X19	1	6.9	4.7	14	12	9.7	6.9	8.0	16	2.5	4.50	7
	1 1/8	8.3	5.8	17	14	12	8.3	9.0	18	2.88	5.13	11
	1 1/4	9.9	7.0	20	17	14	9.9	10	20	2.88	5.13	11

Rated Capacities Basket Hitch based on D/d ratio of 10 times the component rope diameter.

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.

	TYF	PE CL25:	Galvaniz Rated C	ed Cable apacity - US	Laid Tw Tons	o-Leg Slir	g
		RATED	CAPACITY	((Tons)	Allov		
	Rope Dia.	Å	8	A	Oblong	Alloy Hook	
	(**)	$\overline{}$	$\sqrt{}$		Diameter	WIL Tons	
		60 °	45°	30°	(")	WEL TONS	8
	1/4	0.87	0.71	0.5	0.50	1	Ø
77777	3/8	1.9	1.5	1.1	0.50	1 1/2	8
	1/2	3.2	2.6	1.9	0.75	2	8
	5/8	4.8	3.9	2.8	1.00	3	8
	3/4	7	5.8	4.1	1.00	5	
7X7X19	7/8	9.4	7.6	5.4	1.25	7	
	1	12	9.7	6.9	1.25	7	
	1 1/8	14	12	8.3	1.50	11	1
	1 1/4	17	14	9.9	1.75	11	

Rated Capacities based on design factor of 5. Horizontal sling angles less than 30° shall not be used.



TYPE CL35: Galvanized Cable Laid Three-Leg Sling Rated Capacity - US Tons

			RATED	CAPACIT	(Tons)	ΔΙΙον	Allov	
		Rope Dia.	Å	Å	Å	Oblong	Hook	
		()				Diameter		
			60 °	45°	30 °	(")		
		1/4	1.3	1.1	0.76	0.63	1	
	77777	3/8	2.8	2.3	1.6	0.9	1 1/2	
		1/2	4.8	3.9	2.8	0.9	2	
		5/8	7.2	5.9	4.2	1.3	3	
		3/4	11	8.6	6.1	1.50	5	
		7/8	14	11	8.1	1.8	7	
	7X7X19	1	18	15	10	1.75	7	
		1 1/8	21	18	12	1.75	11	
		1 1/4	26	32	15	2.0	11	





Master Link with Sub-Assemblies Optional

TYPE CL45: Galvanized Cable Laid Four-Leg Sling Rated Capacity - US Tons

		RATED	CAPACITY	(Tons)	ΔΙΙον	Alloy Hook	
	Rope Dia.	Ň	Å	A	Oblong		
	()			Δ	Diameter		
		60 °	45°	30°	(")		
	1/4	1.7	1.4	1	0.75	1	
77777	3/8	3.8	3.1	2.2	0.75	1 1/2	
(1/2	6.4	5.2	3.7	1.00	2	
	5/8	9.6	7.8	5.5	1.25	3	
	3/4	14	11	8.1	1.5	5	
7X7X19	7/8	19	15	11	1.75	7	
	1	24	19	14	2	7	
	1 1/8	29	23	17	2.25	11	
	1 1/4	34	28	20	2.50	11	

Rated Capacities based on design factor of 5. Horizontal sling angles less than 30° shall not be used.



Master Link with Sub-Assemblies Optional



TYPE SS15 T-304: Stainless Steel Sling Rated Capacity - US Tons



	Rope	Vertical	Choker Hitch		Baske	t Hitch		Eye Dime	ensions (")	Thiı Dimeı (Alloy Hook	
	Dia. (")	0 I	محلا	ŶĴ	Å	Å	\bigtriangleup	Α	в	А	в	WLL Tons
		0	0		60°	45°	30°					
	1/4	0.61	0.45	1.2	1.1	0.86	0.61	2.0	4	0.88	1.63	1
	5/16	0.86	0.63	1.7	1.5	1.2	0.86	2.5	5	1.06	1.88	1
	3/8	1.1	0.84	2.3	2.0	1.6	1.1	3.0	6	1.13	2.1	1 1/2
6X19	7/16	1.5	1.1	3.1	2.7	2.2	1.5	3.5	7	1.25	2.38	2
OR	1/2	2.2	1.6	4.3	3.8	3.1	2.2	4.0	8	1.5	2.75	3
6X36	9/16	2.7	2.0	5	4.7	3.8	2.7	4.5	9	1.5	2.75	5
EIP	5/8	3.3	2.5	7	5.8	4.7	3.3	5.0	10	1.75	3.25	5
	3/4	4.7	3.5	9	8.2	6.7	4.7	6.0	12	2.0	3.75	5
	7/8	6.3	4.7	13	11	8.9	6.3	7	14	2.25	4.25	5
	1	8.1	6.0	16	14	11	8	8	16	2.5	4.5	11
	1 1/8	10	7.4	20	17	14	10	9	18	2.88	5.13	11
	1 1/4	12	9.1	25	21	17	12	10	20	2.88	5.13	15
eV2e	1 3/8	14	11	29	24	20	14	11	22	3.5	6.25	22
	1 1/2	17	13	34	29	24	17	12	24	3.5	6.25	22
EIP	1 3/4	22	17	45	38	31	22	14	28	4.5	9.0	30
	2	28	21	57	48	39	28	16	32	6.0	12	37
	2 1/4	35	25	69	57	49	33	18	36	7.0	14	45

Rated Capacities Basket Hitch based on D/d ratio of 25 times the component rope diameter.

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.

TYPE SS25 T-304: Two-Leg Stainless Steel Sling Rated Capacity - US Tons

		RATED	CAPACITY	(Tons)	ΔΙΙον	ΔΙΙον
	Rope Dia.	Å	Å	Å	Oblong	Hook
		<u>60°</u>	45°	30°	Diameter (")	WLL Tons
	1/4	1.1	0.86	0.61	0.50	1
	5/16	1.5	1.2	0.86	0.50	1
	3/8	2	1.6	1.1	0.50	1 1/2
	7/16	2.7	2.2	1.5	0.75	2
77777	1/2	3.8	3.1	2.2	0.75	3
	9/16	4.7	3.8	2.7	0.875	5
	5/8	5.8	4.7	3.3	1.0	5
	3/4	8.2	6.7	4.7	1.0	5
	7/8	11	8.9	6.3	1.25	5
	1	14	11	8	1.50	11
	1 1/8	17	14	10	1.50	11
	1 1/4	21	17	12	1.75	15
777740	1 3/8	24	20	14	1.75	22
////19	1 1/2	29	24	17	2.0	22
	1 3/4	38	31	22	2.25	30
	2	48	39	28	2.5	37

Rated Capacities based on design factor of 5. Horizontal sling angles less than 30° shall not be used.



TYPE SS35 T-304: Three Leg Stainless Steel Sling Rated Capacity - US Tons

		RATED	CAPACITY	(Tons)	Alloy	Allov
	Rope Dia.	Å	Å	Å	Oblong	Hook
	()	1	<u> </u>		Diameter	WLL
		60° 45°		30°	(")	Tons
	1/4	1.6	1.3	0.91	0.75	1
	5/16	2.2	1.8	1.3	0.75	1
	3/8	3	2.4	1.7	0.875	1 1/2
	7/16	4	3.3	2.3	1.0	2
6X19 OR	1/2	5.6	4.6	3.2	1.0	3
6X36	9/16	7.1	5.8	4.1	1.0	5
	5/8	8.6	7.1	5	1.0	5
	3/4	12	10	7.1	1.5	5
	7/8	16	13	9.5	1.75	5
	1	21	17	12	1.75	11
	1 1/8	26	21	15	2	11
	1 1/4	31	25	18	2.25	15
6X36	1 3/8	36	30	21	2.5	22
	1 1/2	43	35	25	2.5	22
	1 3/4	57	46	33	2.75	30

Rated Capacities based on design factor of 5. Horizontal sling angles less than 30° shall not be used.



Master Link with Sub-Assemblies Optional

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TYPE SS45 T-304: Four-Leg Stainless Steel Sling Rated Capacity - US Tons

		RATED	CAPACITY	(Tons)	Oblong	Allov	
	Rope Dia.			A	Link	Hook	
	()			\sum	Diameter	WLL Tons	
		60 °	45°	30°	(")		
	1/4	2.1	1.7	1.2	0.75	1	
	5/16	3	2.4	1.7	0.75	1	
	3/8	3.9	3.2	2.3	0.875	1 1/2	
	7/16	5.4	4.4	3.1	1.0	2	
6X19 OR	1/2	7.5	6.1	4.3	1.0	3	
6X36	9/16	9.4	7.7	5.4	1.25	5	
	5/8	12	9.4	6.7	1.25	5	
	3/4	16	13	9.4	1.5	5	
	7/8	22	18	13	1.75	5	
	1	28	23	16	2.0	11	
	1 1/8	34	28	20	2.25	11	
6X36	1 1/4	41	34	24	2.5	15	
6X36	1 3/8	49	40	28	2.75	22	
	1 1/2	58	47	33	3.0	22	

Rated Capacities based on design factor of 5. Horizontal sling angles less than 30° shall not be used.



Master Link with Sub-Assemblies Optional



CROSBY EYE HOOKS

All Crosby 320 Eye Hoist Hooks incorporate the following features:

· The most complete line of Eye hoist hooks.

- Available in carbon steel and alloy steel.
- Designed with a 5:1 Design Factor for (Carbon Steel) 4.5:1 Design Factor for 30t 60t(Alloy Steel).
- Eye hooks are load rated.
- Proper design, careful forging and precision controlled quenched and tempering give maximum strength without excessive weight and bulk.
- Every Crosby Eye Hook has a pre-drilled cam which can be equipped with a latch. Even years after purchase of the original hook, latch assemblies can be added. (See pages 119 - 121)
- Chemical analysis and tensile tests performed on each PIC to verify chemistry and mechanical properties.
- Type Approval and certification in accordance with ABS 2007 Steel Vessel Rules 1-1-17.7, and ABS Guide for Certification of Cranes.
- Hoist hooks incorporate two types of strategically placed markings forged into the product which address two (2) QUIC-CHECK[®] features:
 - Deformation Indicators and Angle Indicators (see following page for detailed definition).

The following additional features have been incorporated in the new Crosby S-320N Eye Hoist Hooks. (Sizes 3/4 metric ton Carbon through 22 metric ton Alloy.)

- Metric Rated at 5:1 Design Factor for (Carbon Steel) 5:1 Design Factor for 1t 22t (Alloy Steel).
- Can be proof tested to 2 times the working Load Limit.
- Low profile hook tip.
- New integrated latch (S-4320) meets the World class standard for lifting.
 - · Heavy duty stamped latch interlocks with the hook tip.
 - High cycle, long life spring.
 - · When secured with proper cotter pin through the hole in the tip of hook, meets the intent of OSHA Rule 1926.1431(g) and 1926.1501(g) for personnel hoisting.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.

Work Load L	ting imit t)			Eye Hook Stock No.				Replacement Latch Kits	
Carbon	Alloy	Hook ID Code	Carbon S-320C S-320CN S.C.	Carbon G-320CN Galv.	Alloy 5-320A 5-320AN 5.C,	Weight Each (lbs.)	S-4320 Stock No.	PL Stock No.	SS-4055 Stock No.
3/4	1	+D	1022200	1022208	1022375	.61	1096325	-	-
1	1-1/2	†F	1022211	1022219	1022386	.89	1096374		-
1-1/2	2	+G	1022222	1022230	1022397	1.44	1096421		-
2	3	+H	1022233	1022241	1022406	2.07	1096468	-	-
3	5	+1	1022244	1022249	1022419	4.30	1096515	1092000	-
5	7	t	1022255	1022262	1022430	8.30	1096562	1092001	-
7-1/2	11	†К	1022264	1022274	1022441	15.00	1096609	1092002	-
10	15	†L	1022277	1022285	1022452	20.77	1096657	1092003	-
15	22	†N	1022288	1022296	1022465	39.50	1096704	1092004	-
20	30	0	1023289	-	1023546	60.00	-	1093716	1090161
25	37	P	1023305	-	1023564	105.00	-	1093717	1090189
30	45	S	1023323	-	1023582	148.00	-	1093718	1090189
40	60	Т	1023341	-	1023608	228.00	-	1093719	1090205

*Eye Hooks (3/4 TC - 22TA), Proof load is 2 times Working Load Limit. Eye Hooks (20 TC - 60TA). All carbon hooks-average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 1 ton through 22 ton-average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 30 tons through 60 tonsaverage straightening load (ultimate load) is 4.5 times Working Load Limit. ⁺ New 320N style hook.



S-320 & S-320N

EYE HOOKS



Alloy Eye Hooks Alloy Eye Hooks, Crosby



CROSBY EYE HOOKS

S-320 & S-320N EYE HOOKS



 Hoist hooks incorporate markings forged into the product which address two (2) QUIC-CHECK* features.

- Deformation Indicators -- Two strategically placed marks, one just below the shank or eye
 and the other on the hook tip, which allows for a QUIC-CHECK* measurement to determine
 if the throat opening has changed, thus indicating abuse or overload. To check, use a
 measuring device (i.e. tape measure) to measure the distance between the marks. The
 marks should align to either an inch or half-inch increment on the measuring device. If the
 measurement does not meet this criteria, the hook should be inspected further for
 possible damage.
- Angle Indicators -- Indicates the maximum included angle which is allowed between two
 (2) sling legs in the hook. These indicators also provide the opportunity to approximate
 other included angles between two sling legs.



Hook	Dimensions (in.)													
Code*	c	D	F	G	L	к	м	N	01	02.17	Q	T+	T2.**	AA
D	3.34	2.83	1.25	.73	.90	.63	.63	.36	.89		.75	.87	-	1.50
F	3.81	3.11	1.38	.84	.93	.71	.71	.42	.91	-	.91	.98	-	2.00
G	4.14	3.53	1.50	1.00	1.00	.88	.88	. 55	1.00	-	1.13	1.03	-	2.00
н	4.69	3.97	1.63	1.13	1.13	.94	.94	.58	1.09	-	1.25	1.16	-	2.00
1	5.77	4.81	2.00	1.44	1.47	1.31	1.31	.72	1.36	1.00	1.56	1.53	1.50	2.50
	7.37	6.27	2.50	1.81	1.75	1.66	1.66	.90	1.61	1.31	2.00	1.96	1.88	3.00
К	9.07	7.45	3.00	2.25	2.29	1.88	1.63	1.11	2.08	1.81	2.44	2.47	2.25	4.00
L	10.08	8.30	3.25	2.59	2.50	2.19	1.94	1.27	2.27	2.00	2.84	2.62	2.31	4.00
N	12.53	10.30	4.25	3.00	3.30	2.69	2.38	1.56	3.02	2.75	3.50	2.83	2.56	5.00
0	14.06	13.62	5.00	3.62	4.00	3.00	3.00	1.75	3.25	-	3.50	3.44	-	6.50
Ρ	18.19	14.06	5.38	4.56	4.25	3.75	3.19	2.00	3.00		4.50	3.88	-	7.00
S	20.12	15.44	6.00	5.06	4.75	4.50	3.25	2.18	3.38	-	4.94	4.75	-	8.00
Т	23.72	18.50	7.00	6.00	5.75	5.50	3.91	2.53	4.12		5.69	5.69		10.00

*Eye Hooks (3/4 TC-22TA), Proof load is 2 times Working Load Limit. Eye Hooks (20 TC-60TA). All carbon hooks - average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 1t through 22t - average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 30t through 60t -

average straightening load (ultimate load) is 4.5 times Working Load Limit. † 3/4tC - 22tA dimensions shown are for S-4320 Latch Kits. Dimensions for sizes 20t carbon and larger are for PL Latch Kits.

++ Dimensions are for PL-N latch kits.





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