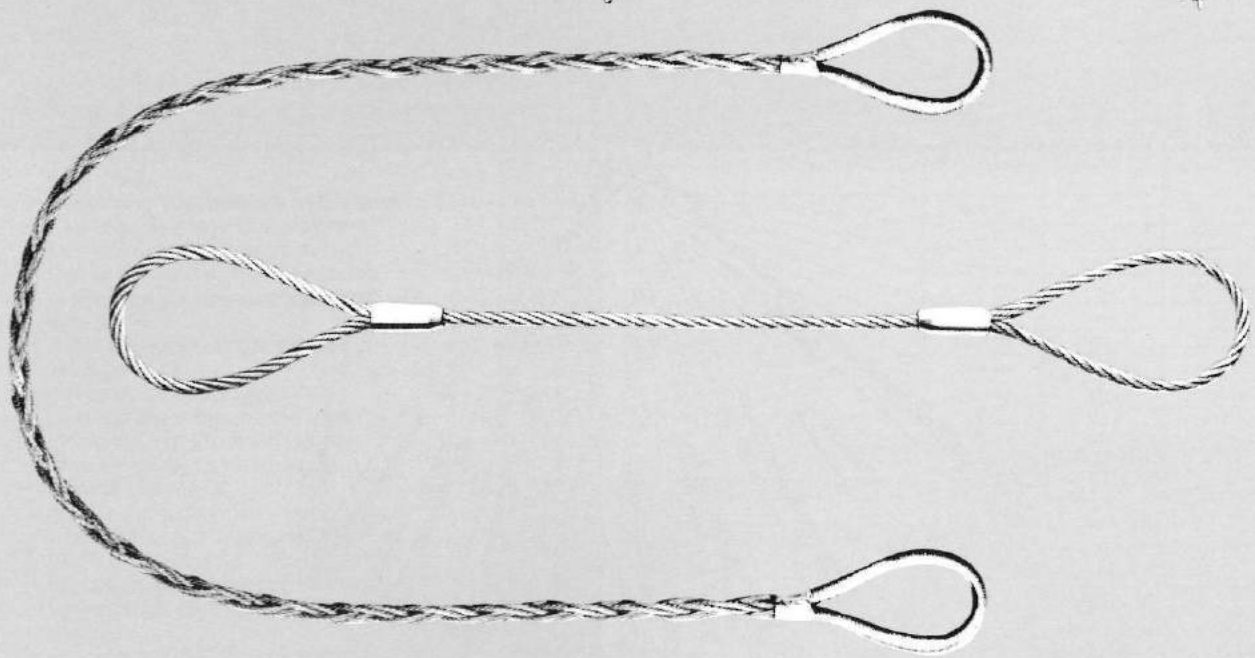


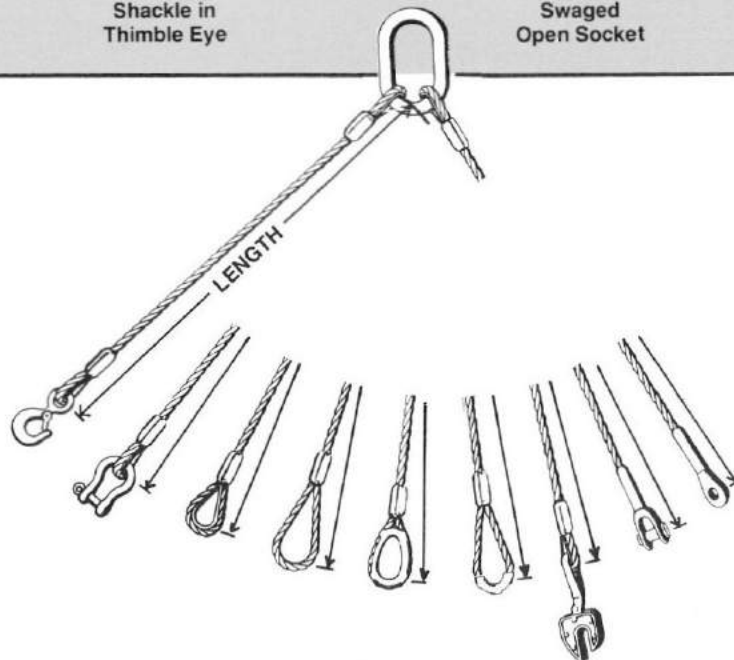
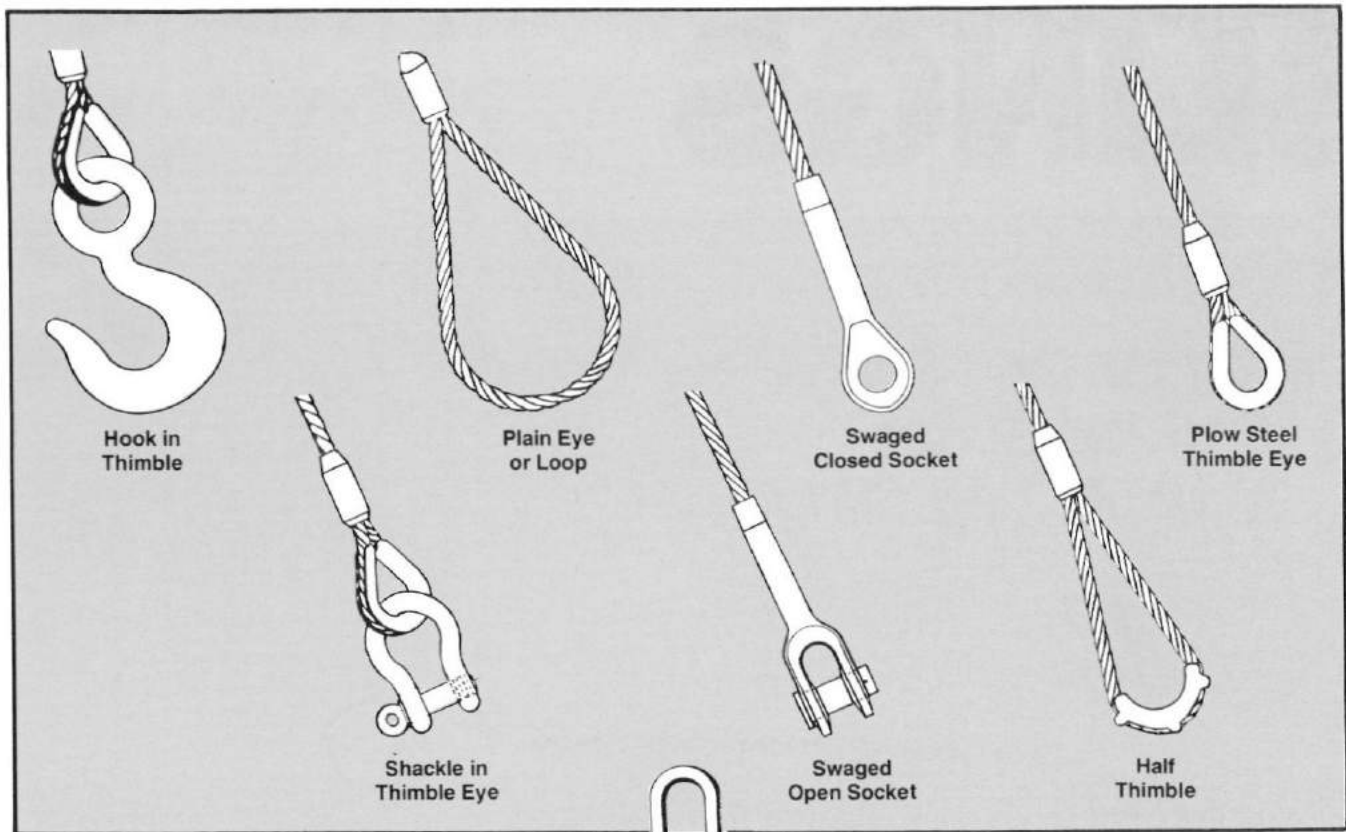
# SLINGS

*Single-Part Slings  
Braided Slings  
Multiple Leg Slings*



**HOLLAND EQUIPMENT CO.  
2870 W. 2100 S.  
SALT LAKE CITY, UT 84119  
HOLLANDEQ.COM**

# FLEMISH EYE



## SAFETY REQUIREMENTS FOR WIRE ROPE SLINGS







**WARNING:** Consult industry recommendations and OSHA standards for proper application.

**DO NOT** exceed rated capacity of sling. Rated capacity of sling applies to a new and unused sling. Inspect sling before each use. Tensile strength of sling may decrease with each use.

**DO NOT** allow sling to rotate at either end. Sling may fail if damaged, abused, misused, overused or improperly maintained.

1. Determine weight of load.
2. Select a sling of suitable capacity.
3. When in doubt use a larger capacity sling.
4. **DO NOT** run a sling around sharp corners without corner guards.
5. **DO NOT** attach sling to fittings with diameters smaller than sling rope size.
6. Avoid formation of kinks, loops or twists in the legs or sling body.
7. Examine sling for damage and worn areas.
8. Take up slack slowly to avoid shockloading the sling.
9. Use a tag line on the load if necessary to prevent sling rotation.
10. **DO NOT** use sling with hand tucked splices where rotation will allow unlaying of rope and splice.
11. **DO NOT** shorten sling using knots, clips or other means.
12. Keep sling well lubricated to resist corrosion.
13. **DO NOT** use old or used ropes for slings.
14. Discard sling if it is damaged, worn, corroded or exposed to a corrosive environment.

# RATED CAPACITIES • SLINGS

SIZE	FINISHED BODY DIA.	AVE. WT. PER FOOT IN POUNDS	RATED CAPACITY—TONS †					
			1 SLING VERTICAL	1 SLING CHOKER HITCH *	1 SLING BASKET HITCH	2 SLINGS 30°	2 SLINGS 45°	2 SLINGS 60°
								
3/32" 8-part	7/16"	.17	.44	.37	.60	.74	.60	.44
1/8" 8-part	9/16"	.19	.79	.68	1.1	1.4	1.1	.79
3/16" 8-part	13/16"	.47	1.7	1.5	2.5	3.0	2.5	1.7
1/4" 8-part	1 1/8"	.86	3.2	2.7	4.5	5.5	4.5	3.2
5/16" 8-part	1 3/8"	1.4	4.8	4.2	6.8	8.3	6.8	4.8
3/8" 8-part	1 11/16"	2.0	6.8	6.0	9.6	12.0	10.0	6.8
7/16" 8-part	2"	2.7	9.3	8.1	14.0	17.0	14.0	9.3
1/2" 8-part	2 1/4"	3.7	12.0	12.0	18.0	21.0	18.0	12.0
5/8" 8-part	2 1/2"	4.7	16.0	13.0	22.0	27.0	22.0	16.0
3/4" 8-part	2 3/4"	5.6	19.0	17.0	27.0	34.0	27.0	19.0
7/8" 8-part	3 3/8"	8.0	28.0	24.0	39.0	48.0	39.0	28.0
1" 8-part	4"	11.0	37.0	32.0	51.0	62.0	51.0	37.0
1" 8-part	4 1/2"	14.0	49.0	41.0	66.0	81.0	66.0	47

SIZE	FINISHED BODY DIA.	WIDTH	THICKNESS	AVE. WT. PER FOOT IN POUNDS	1 SLING VERTICAL	1 SLING CHOKER HITCH *	1 SLING BASKET HITCH	2 SLINGS 30°	2 SLINGS 45°	2 SLINGS 60°
		3/16"	1/4"							
3/32" 6-part	7/16"	3/16"	1/4"	.12	.32	.28	.45	.55	.45	.32
1/8" 6-part	9/16"	3/8"	3/8"	.14	.57	.51	.83	1.01	.83	.57
3/16" 6-part	13/16"	1/2"	1/2"	.34	1.3	1.1	1.8	2.2	1.8	1.3
1/4" 6-part	1 1/8"	11/16"	7/8"	.63	2.3	2.0	3.2	4.0	3.2	2.3
5/16" 6-part	1 3/8"	1"	1"	1.0	3.6	3.2	5.0	6.2	5.0	3.6
3/8" 6-part	1 11/16"	1 1/8"	1 1/8"	1.5	5.1	4.5	7.2	8.7	7.2	5.1
7/16" 6-part	2"	1 3/8"	1 3/8"	2.0	6.9	6.0	9.8	12.0	9.8	6.9
1/2" 6-part	2 1/4"	1 7/8"	1 7/8"	2.7	9.0	7.9	13.0	15.0	13.0	9.0
5/8" 6-part	2 1/2"	2"	2"	3.5	11.0	9.6	16.0	20.0	16.0	11.0
3/4" 6-part	2 3/4"	2 1/8"	2 1/8"	4.1	14.0	12.0	20.0	24.0	20.0	14.0
7/8" 6-part	3 3/8"	2 3/8"	2 3/8"	6.0	20.0	18.0	28.0	35.0	28.0	20.0
1" 6-part	4"	2 7/8"	2 7/8"	8.2	27.0	24.0	38.0	47.0	38.0	27.0
1" 6-part	4 1/2"	3 1/8"	3 1/8"	10.3	35.0	31.0	50.0	61.0	50.0	35.0



**ROUND BODY**  
**8-part slings**

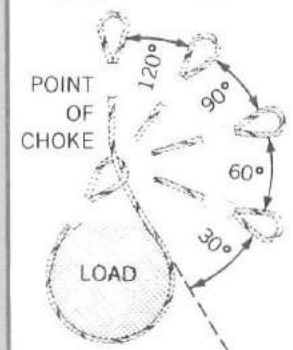


**FLAT BODY**  
**6-part slings**

† Based on an approximate Design Factor of 5 with 6 x 19 one-operation Improved Plow PFC Component ropes. For IPS IWRC, increase by 7 1/2% and for PREMIUM IWRC, increase by 23%

\* These values apply only when the choker angle = 135° or larger. For choke angles less than 135° the following reduction factors apply.

Choke Angle	Reduction Factor
90 - 120°	.87
60 - 90°	.74
30 - 60°	.62
0 - 30°	.49



Braided Slings refer to Component Rope Size when ordering.

## FLEMISH EYE SPLICE — SINGLE PART SLINGS

*Strands of rope are divided*

*Ends are positioned ready for sleeve*

*Rope is reformed with strands*

*Sleeve is pressed securely in place*

# MECHANICAL SPLICE SLINGS

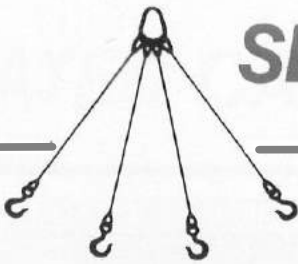
## General Specifications

### SLINGS TABLE

SIZE	AVE. WT. PER FT. IN LBS.	MIN. SLING LENGTHS		RATED CAPACITY—TONS					
				1 SLING VERTICAL	1 SLING CHOKER *	1 SLING (45°) BASKET HITCH	2 SLINGS 30°	2 SLINGS 45°	2 SLINGS 60°
		TYPE 1 STD. LOOP EYES EA. END	TYPE 5 STD. THIMBLE EYES						
6 × 19 PREFORMED IPS-IWRC (one operation)									
1/4"	.116	1'-1"	0'-9"	.56	.41	.79	.97	.79	.56
3/8	.18	1'-4"	0'-11"	.87	.64	1.2	1.5	1.2	.87
1/2	.26	1'-8"	1'-1"	1.2	.92	1.8	2.1	1.8	1.2
5/8	.35	1'-11"	1'-3"	1.7	1.2	2.4	2.9	2.4	1.7
3/4	.46	2'-2"	1'-4"	2.2	1.6	3.1	3.8	3.1	2.2
7/8	.59	2'-5"	1'-5"	2.7	2.0	3.9	4.8	3.9	2.7
1 1/8	.72	2'-9"	1'-8"	3.4	2.5	4.8	5.9	4.8	3.4
1 1/4	1.04	3'-3"	1'-11"	4.9	3.6	6.9	8.4	6.9	4.9
1 3/8	1.44	3'-10"	2'-3"	6.6	4.8	9.3	11.0	9.3	6.6
1 1/2	1.85	4'-4"	2'-6"	8.5	6.3	12.0	15.0	12.0	8.5
6 × 37 PREFORMED IPS-IWRC (one operation)									
1 5/8	2.34	4' - 11"	2' - 10"	10.0	7.9	14.0	17.0	14.0	10.0
1 3/4	2.89	5' - 5"	3' - 0"	13.0	9.7	18.0	23.0	18.0	13.0
1 7/8	3.5	6' - 0"	3' - 6"	15.0	12.0	21.0	26.0	21.0	15.0
2	4.16	6' - 6"	3' - 9"	18.0	14.0	25.0	31.0	25.0	18.0
2 1/4	5.67	7' - 7"	4' - 7"	25.0	19.0	35.0	43.0	35.0	25.0
2 1/2	7.39	8' - 8"	5' - 6"	31.0	23.0	44.0	54.0	44.0	31.0
2 3/4	9.36	9' - 9"	6' - 3"	39.0	29.0	55.0	68.0	55.0	39.0
3	11.6	10' - 10"	—	47.0	35.0	66.0	81.0	66.0	47.0
3 1/4	14.0	11' - 11"	—	56.0	42.0	79.0	97.0	79.0	56.0
3 1/2	16.6	13' - 0"	—	67.0	50.0	95.0	116.0	95.0	67.0

### FITTINGS TABLE

SIZE	HOOKS TONS	SHACKLES	TURNBUCKLES	LINKS			
				1 LEG	2 LEGS	3 LEGS	4 LEGS
6 × 19 PREFORMED IPS-IWRC							
1/4"	1	5/8"	1/2"	1/2"	5/8"	3/4"	7/8"
3/8	1	3/4	5/8	5/8	3/4	7/8	1 1/8
1/2	1 1/2	3/4	5/8	5/8	7/8	1 1/8	1 1/4
5/8	2	1/2	3/4	3/4	1 1/8	1 1/4	1 1/2
3/4	3	5/8	7/8	7/8	1 1/4	1 1/2	1 3/4
7/8	3	3/4	7/8	1	1 3/8	1 5/8	1 7/8
1 1/8	4 1/2	3/4	1	1 1/8	1 1/2	1 7/8	2 1/8
1 1/4	4 1/2	7/8	1 1/4	1 1/4	1 3/4	2 1/8	2 1/2
1 3/8	7	1	1 1/2	1 1/2	2 1/8	2 1/2	2 7/8
1 1/2	11	1 1/8	1 1/2	1 3/4	2 1/4	2 7/8	3 1/4
6 × 37 PREFORMED IPS-IWRC							
1 5/8	11	1 1/4	1 3/4	1 7/8	2 1/2	3 1/8	3 1/2
1 3/4	15	1 3/8	2	2	2 7/8	3 3/8	4
1 7/8	15	1 1/2	2	2 1/4	3	3 3/4	—
2	22	1 3/4	2 1/2	2 1/2	3 3/8	4	—



# SLING CARE AND USE

## FOUR LEGS

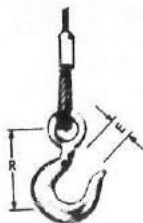
### SLING CARE

Proper care and usage are essential for maximum service and safety. Wire Rope Slings should be protected from sharp bends and cutting edges by means of corner saddles, burlap padding, or wood blocking. Heavy or continuous over-loading should be avoided as well as sudden jerks which can build up a momentary over-load sufficient to break the sling. Slings should be lubricated to prevent rust, and hung up when not in use.

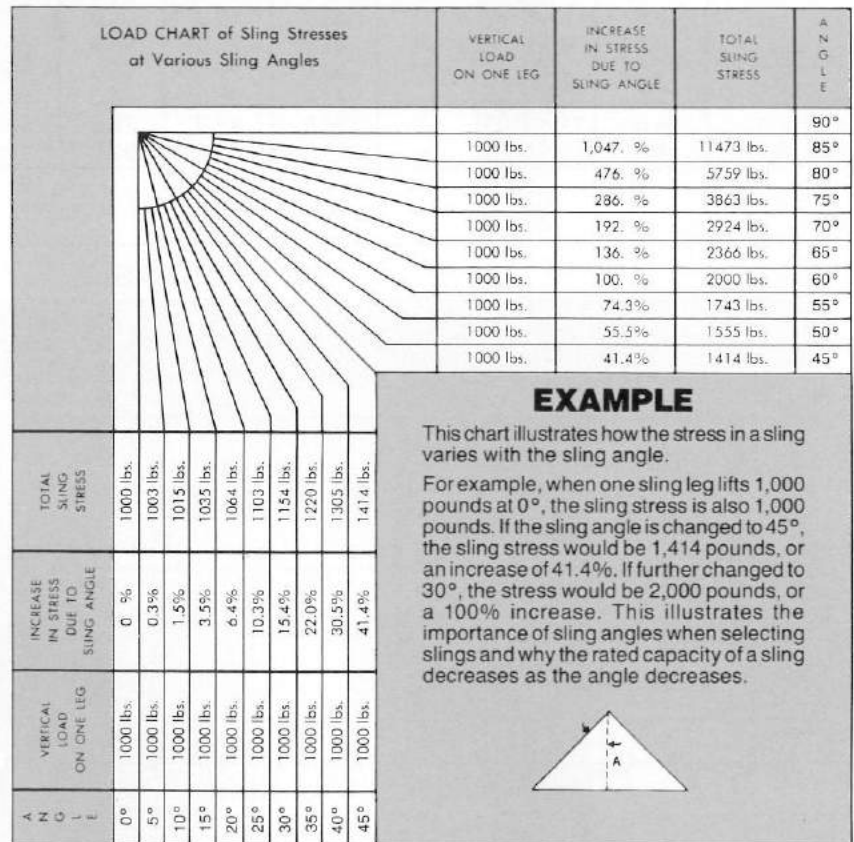
### SLING USE

**SAFE OPERATING PRACTICES**  
Personnel using Wire Rope Slings should be instructed in and apply these practices:

- Determine weight of load
- Select a sling of suitable rated capacity
- Use the proper hitch
- Guide loads with a tag line when practical
- When using multiple leg slings select the longest sling possible so as to reduce the tension in the sling legs
- Examine the sling for damaged or worn area
- Attach the sling securely to the load
- Pad or protect any sharp corners with which the sling is in contact.
- Center the load in the base (bowl) of the hook to prevent hook point loading
- Avoid any kinks, loops, or twist in the legs
- Keep hands and fingers from between the sling and the load
- Stand clear of the attached load
- Start lift slowly to avoid shock loading of the sling
- Do not pull a sling from under a load when the load is resting on the sling. Block the load up to remove the sling
- Do not shorten a sling by knotting, by wire rope clips, or any other means
- Do not inspect a sling by passing bare hands over the body. Broken wires, if present, may puncture the hands
- Keep the sling well lubricated in order to prevent corrosion



SIZE	SAFELOAD—TONS			LINK			ALLOY HOOK		
	4 LEGS 30°	4 LEGS 45°	4 LEGS 60°	A	B	D	Tons	E	R
<b>6 x 19 CONSTRUCTION IWRC</b>									
1/4"	1.9	1.6	1.1	1 3/4"	5 1/4"	7/8"	1	15/16"	3 7/32"
5/16	3.0	2.5	1.7	2	6	1 1/8"	1	15/16	3 7/32
3/8	4.3	3.5	2.5	2 1/2	7 1/2	1 1/4"	1 1/2	1 1/32	3 21/32
7/16	5.8	4.8	3.4	2 3/4	8 1/4	1 1/2"	2	1 1/16	4 3/32
1/2	7.6	6.2	4.4	3	9	1 3/4"	3	1 7/32	4 11/16
9/16	9.5	7.8	5.5	3 1/2	10 1/2	1 7/8"	3	1 7/32	4 11/16
5/8	12.	9.6	6.8	4	12	2 1/8"	4 1/2	1 1/2	5 3/4
3/4	17.	14.	9.7	4 1/2	13 1/2	2 1/2"	4 1/2	1 1/2	5 3/4
7/8	23.	18.	13.	5	15	2 7/8"	7	1 7/8	7 3/8
1	29.	24.	17.	5 1/2	16 1/2	3 1/4"	11	2 1/4	9 1/16
1 1/8	36.	29.	21.	6	18	3 1/2"	11	2 1/4	9 1/16
1 1/4	44.	36.	26.	7	21	4	15	2 1/2	10 1/16
1 3/8	53.	44.	31.	7 1/2	22 1/2	4 1/2"	15	2 1/2	10 1/16
1 1/2	63.	52.	36.	8	24	4 1/2"	22	3 3/8	12 1/2

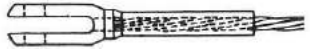


# AIRCRAFT AND MARINE TERMINALS FOR SWAGING Cable Assemblies

MS21259 STUD END THREADED



MS20667 FORK END



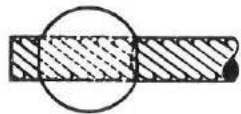
MS20668 EYE END



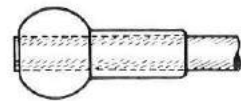
MS21260 AND AN669  
TURN BUCKLE END THREADED



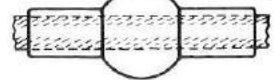
SA110 BALL



MS20664C BALL AND SHANK



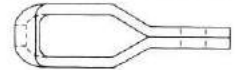
MS20663C BALL AND DOUBLE  
SHANK



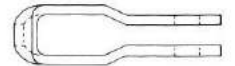
SA160 SLEEVE



SA161 EYE SOCKETTYPE



SA162 FORK SOCKETTYPE



OPEN SWAGED SOCKET  
SA163



CLOSED SWAGED SOCKET  
SA164



PIN EYE  
SA154



STANDARD FORK  
SA152



LARGE RING EYE  
SA149



THREADED STUD  
SA156



SMALL RING EYE  
SA153



THREADED SLEEVE  
SA155



OVAL EYE  
SA158



STANDARD HOOK  
SA150

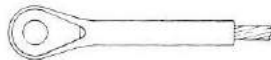


STANDARD SLEEVE  
SA157



SAFETY HOOK  
SA151

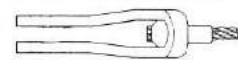
EYE SA 104



STRAP END SA361 EYE



STRAP END SA362 FORK



JAW SA107



MARINE CABLE TERMINALS  
STUD SA106



Above cable terminals are diagrammed and illustrated in CORROSION RESISTING TERMINAL CATALOG. Write for your copy



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