

Ships' steel wire sockets

1. Scope This Japanese Industrial Standard specifies steel wire sockets for standing wire rope of ships' mast, post and the like.

Remarks: This standard makes reference to the following standards:

- JIS B 0205** – Metric coarse screw threads
- JIS B 0207** – Metric fine screw threads
- JIS B 1351** – Split pins
- JIS G 3505** – Low carbon steel wire rods
- JIS G 4051** – Carbon steel for machine structural use
- JIS G 5101** – Carbon steel castings
- JIS H 3260** – Copper and copper alloy wires

2. Classification Steel wire sockets shall be classified into two types, viz closed type (C) and open type (O).

3. Shape and dimensions The shape and dimensions shall be as shown in Figs. 1 to 3.

4. Materials The materials shall be as given in Table 1.

Table 1

Component	Material
Body	JIS G 4051-S 25 C or JIS G 5101-SC 450
Hexagon head bolt, hexagon nut	JIS G 4051-S 25 C or JIS G 5101-SC 450
Split pin	JIS G 3505-SWRM 10 or 12 and JIS H 3260-C 2600 W

5. Method of manufacture The steel casting material shall be smelted in an electric furnace, and the casted body shall be properly heat-treated according to its thickness. Forge, electric or gas welding shall not be applied in manufacturing the socket of either carbon steel for machine structural use or cast steel.

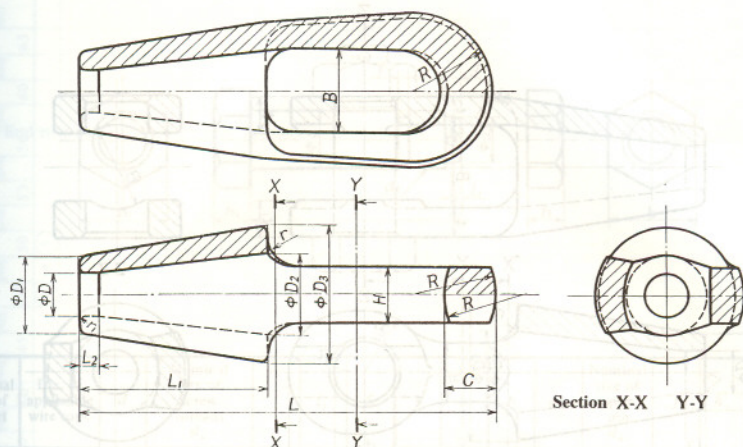
6. Visual inspection The steel wire sockets shall be visually inspected and all surfaces shall be free from any detrimental defect such as crack and flaw.

7. Designation The steel wire sockets shall be designated by the title, JIS number, type and nominal size.

Example: Ships' steel wire socket, C 26 or JIS F 3432 C 26

8. Marking The following particulars shall be marked on a readily visible part of the body:

- (1) Type
- (2) Nominal size



Unit: mm

Nominal size	Dia. of applicable wire rope	D	D ₁	D ₂	D ₃	B	L	L ₁	L ₂	H	C	R	r	r ₁	Safe working load kN	Reference
																Calculated mass (kg)
16	16	20	26	37	55	40	193	88	8	24	21	38	12	2	25.5	1.18
18	18	23	30	40	62	43	210	95	9	27	24	41	13	2	32.4	1.64
20	20	25	35	44	69	47	227	103	10	30	26	44	15	2	40.2	2.24
22	22.4	30	40	49	77	52	245	111	11	33	29	48	17	2	50.0	2.95
24	24	32	44	52	84	56	262	119	12	36	31	51	18	2	57.9	3.84
25	25	33	49	56	91	60	281	127	13	39	34	54	20	2	67.7	4.89
28	28	36	53	61	98	65	298	135	14	41	36	58	21	2	78.5	5.87
30	30	38	58	64	106	68	316	143	15	44	39	61	23	3	90.2	7.37
32	31.5	40	62	68	113	72	335	151	16	47	42	64	25	3	103.0	8.97
34	33.5	42	67	71	120	75	353	159	17	50	44	68	26	3	112.8	10.8
36	35.5	44	71	76	127	80	373	168	18	53	47	72	28	3	127.5	12.6
38	37.5	47	76	80	134	84	392	177	19	56	49	75	29	3	142.2	15.0
40	40	49	80	84	141	88	413	186	20	59	52	79	31	4	161.8	17.5
42	42.5	52	84	88	148	92	434	196	21	61	54	83	33	4	181.4	20.3
45	45	54	92	96	162	101	474	214	23	67	60	91	36	4	205.9	26.6
48	47.5	57	96	99	169	104	494	223	24	70	62	95	37	4	225.6	30.5
50	50	60	99	104	176	109	516	233	25	73	65	99	39	5	250.1	34.1
53	53	63	102	108	183	113	536	242	26	76	67	103	40	5	274.6	38.0
56	56	66	108	114	193	119	567	256	28	80	71	109	42	5	308.9	45.2
60	60	70	116	124	210	129	619	279	30	87	78	119	46	6	353.0	58.3
63	63	74	120	128	216	133	641	289	31	90	81	123	47	6	392.3	64.0

Fig. 1 Ships' steel wire socket, Type C