

CATALOG PRODUCT



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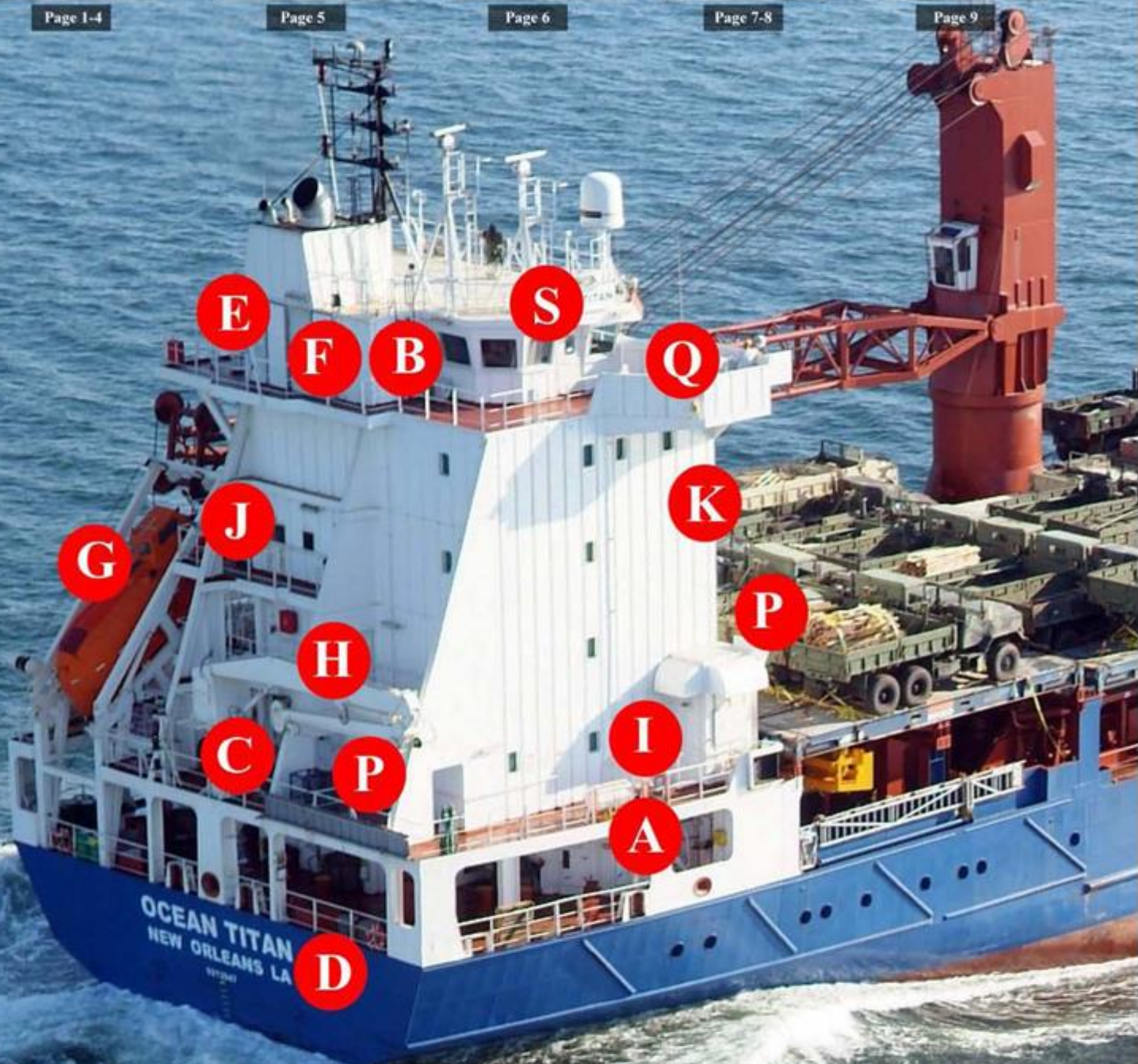
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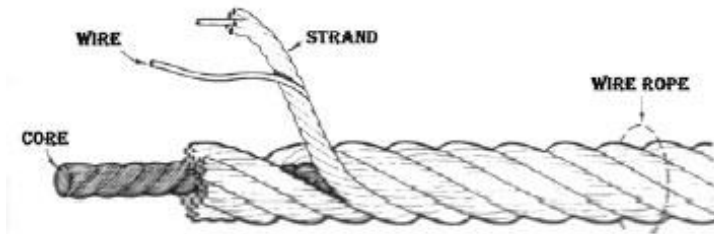
Marine nautical instrument

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WIRE ROPE

(KAWAT BAJA / TALI BAJA / KAWAT SLING / SLING)

Wire Rope adalah tali baja yang terbuat dari beberapa WIRE yang dipilin membentuk STRAND, lalu beberapa STRAND tersebut dipilin mengelilingi CORE untuk membentuk wire rope.



2 type finishing wire rope:

- GALVANIS
- UNGALVANIS

Catatan : Kami juga menyediakan Wire Rope Stainless Steel dari China & Korea

Putaran menunjukkan arah strand wire rope diputar mengelilingi Core ada 2 macam, yaitu :

1. Right Hand Regular Lay (RHRL) : Right Hand Ordinary Lay (RHOL) : Z Lay : strand diputar searah jarum jam
2. Left Hand Regular Lay (LHRL): Left Hand Ordinary Lay (LHOL) : S Lay : strand diputar berlawanan arah jarum jam.

Catatan : 98% Stok kami memakai RHRL / RHOL / Z Lay / Putaran Kanan

Core wire rope umumnya terdiri dari 3 bahan:

Fiber Core (FC) – tali plastic.

Henep Core (HC) – tali manila.

Wire Core (IWRC) – kawat baja.

Keuntungan FIBER (FC) atau HENEP CORE (HC) adalah wire rope lebih flexible dan lebih tahan karat.

Keuntungan WIRE CORE (IWRC) adalah breaking load yang lebih tinggi.

Standard industri yang banyak dipakai untuk menentukan grade adalah A.P.I (American Petroleum Institute) dan JIS (Japan Industrial Standard).

TENSILE STRENGTH	A.P.I	JIS
165 kg/mm ²	PS	A
1620 N/mm ²	Plow Steel	
180 kg/mm ²	IPS	B
1620 N/mm ²	Improved Plow Steel	
190 kg/mm ²	EIPS	C
1770 N/mm ²	Extra Improved Plow Steel	
220 kg/mm ²	EEIPS	SC
1860 N/mm ²	Extra Extra Improved Plow Steel	

Catatan :

Semakin tinggi grade maka semakin tinggi breaking load, semakin kaku / kurang flexible, ketahanan bending berkurang

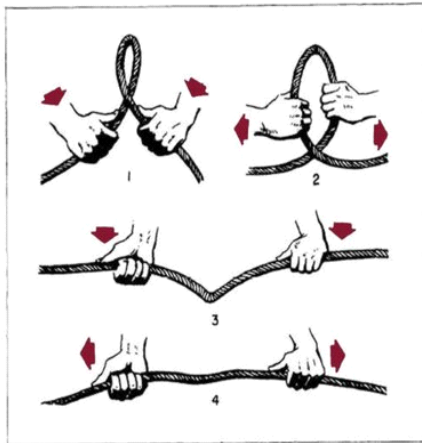
Stock wire rope (untuk saat ini) berasal dari 2 negara, yaitu :

RRT : tensile strength = 170 – 180 kgf/mm²

Korea : tensile strength = 180 – 200 kgf/mm²

Wire rope lain dari Bluestrand (Inggris) dan Usha Martin (India)

Wire rope Korea menawarkan kualitas yang lebih tinggi dan konsisten.



Wire Rope Structure

- | | |
|-------------------------|----------------------------------|
| • <u>1x7 & 1x19</u> | <u>6x29 (FI) IWRC</u> |
| • <u>6x7 HC</u> | <u>6x36 (WS) IWRC</u> |
| • <u>6x12+7HC</u> | <u>6x37 + FC</u> |
| • <u>6x19 (SL) FC</u> | <u>6x37 IWRC</u> |
| • <u>6x19 IWRC</u> | <u>19x7 IWRC</u> |
| • <u>6x19 (SL) IWRC</u> | <u>35x7 IWRC</u> |
| • <u>6x24+7HC</u> | <u>8x19 (SL) FC</u> |
| • <u>6x25 (FI) IWRC</u> | <u>Stainless Steel 7x7, 7x19</u> |

WIRE ROPE SLING

(KAWAT BAJA / TALI BAJA / KAWAT SLING / SLING)

Wire Rope Sling adalah wire rope yang salah satu ujungnya sudah diterminasi. Jenis Terminasi wire rope:

- Hand Splice/Anyam.



- Mechanical Splice/Talurit/Press



- Socket.

Ada 2macam, yaitu : 1. Swage socket = di press dng mesin

2. Spelter socket = direkatkan memakai wire lock)

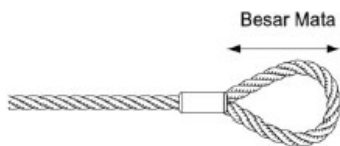


- Stop End.



Informasi yang diperlukan untuk membuat Wire Rope Sling

- Spesifikasi Wire Rope (konstruksi, core, asal, ukuran, putaran, finishing).
- Jenis Terminasi.
- Jumlah Terminasi Satu atau kedua ujung wire rope diterminasi?
- Untuk terminasi mata:
 - Besar mata.



- Apakah Thimble ditambahkan ke mata Sling?



- Apakah aksesoris lain seperti Ring & Hook ditambahkan?



- Panjang jadi/Effective Length.



- Untuk Multi Legged Sling – Jumlah kaki dalam setiap set.



- Quantity sling yang dibutuhkan

KEUNTUNGAN WIRE ROPE SLING PT. Biru Laut Mandiri

Mengapa Wire Rope Sling yang diproduksi PT. Biru Laut Mandiri lebih aman digunakan?

- Menggunakan wire rope & rigging baru dan berkualitas.



- Menggunakan Ferrule dari Eropa yang dengan standard EN 13411-3.



- Menggunakan splicing machine Eropa yg diproduksi sesuai ISO 9001:2000 dan dites sesuai standard EN 693 dan EN 982.



RIGGING (AKSESORIS SLING)

• SHACKLE

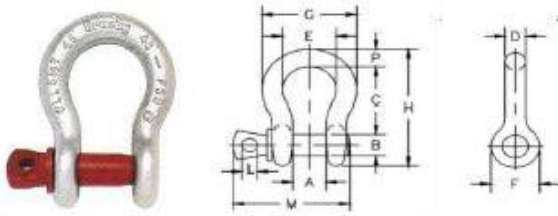
Shackle (*segei*) adalah alat serba guna yang banyak dipakai untuk menyambung alat yang satu ke alat lain.

2 type : 1. Shackle galvanis (RRT) untuk lashing saja

- Shackle SWL (RRT/Crosby) untuk lifting dan towing

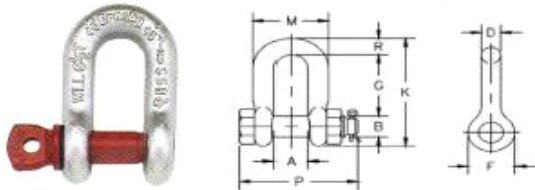
Jenis Jenis Shackle :

Screw Pin Shackle (**Omega G-209**)



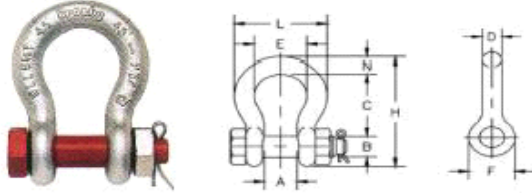
Nominal Size (in.)	Working Load Limit (t)*	Stock No.		Weight Each (lbs.)	Dimensions (in.)												Tolerance + / -	
		G-209	S-209		A	B	C	D	E	F	G	H	L	M	P	C	A	
3/16	1/3	1018357	-	.06	.38	.25	.88	.19	.60	.56	.98	1.47	.16	1.14	.19	.06	.06	
1/4	1/2	1018375	1018384	.10	.47	.31	1.13	.25	.78	.61	1.28	1.84	.19	1.43	.25	.06	.06	
5/16	3/4	1018393	1018400	.19	.53	.38	1.22	.31	.84	.75	1.47	2.09	.22	1.71	.31	.06	.06	
3/8	1	1018419	1018428	.31	.66	.44	1.44	.38	1.03	.91	1.78	2.49	.25	2.02	.38	.13	.06	
7/16	1-1/2	1018437	1018446	.38	.75	.50	1.69	.44	1.16	1.06	2.03	2.91	.31	2.37	.44	.13	.06	
1/2	2	1018455	1018464	.72	.81	.63	1.88	.50	1.31	1.19	2.31	3.28	.38	2.69	.50	.13	.06	
5/8	3-1/4	1018473	1018482	1.37	1.06	.75	2.38	.63	1.69	1.50	2.94	4.19	.44	3.34	.69	.13	.06	
3/4	4-3/4	1018491	1018507	2.35	1.25	.88	2.81	.75	2.00	1.81	3.50	4.97	.50	3.97	.81	.25	.06	
7/8	6-1/2	1018516	1018525	3.62	1.44	1.00	3.31	.88	2.28	2.09	4.03	5.83	.50	4.50	.97	.25	.06	
1	8-1/2	1018534	1018543	5.03	1.69	1.13	3.75	1.00	2.69	2.38	4.69	6.56	.56	5.13	1.06	.25	.06	
1-1/8	9-1/2	1018552	1018561	7.41	1.81	1.25	4.25	1.16	2.91	2.69	5.16	7.47	.63	5.71	1.25	.25	.06	
1-1/4	12	1018570	1018589	9.50	2.03	1.38	4.69	1.29	3.25	3.00	5.75	8.25	.69	6.25	1.38	.25	.06	
1-3/8	13-1/2	1018598	1018605	13.53	2.25	1.50	5.25	1.42	3.63	3.31	6.38	9.16	.75	6.83	1.50	.25	.13	
1-1/2	17	1018614	1018623	17.20	2.38	1.63	5.75	1.54	3.88	3.63	6.88	10.00	.81	7.33	1.62	.25	.13	
1-3/4	25	1018632	1018641	27.78	2.88	2.00	7.00	1.84	5.00	4.19	8.86	12.34	1.00	9.06	2.25	.25	.13	
2	35	1018650	1018669	45.00	3.25	2.25	7.75	2.08	5.75	4.81	9.97	13.68	1.22	10.35	2.40	.25	.13	
2-1/2	55	1018678	1018687	85.75	4.13	2.75	10.50	2.71	7.25	5.69	12.87	17.84	1.38	13.00	3.13	.25	.25	

Screw Pin Shackle (Dee G-210)



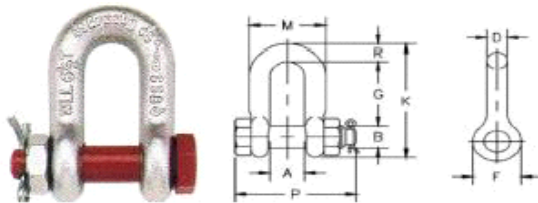
Nominal Size (in.)	Working Load Limit (t)*	Stock No.		Weight Each (lbs.)	Dimensions (in.)												Tolerance +/-	
		G-210	S-210		A	B	C	D	E	F	G	K	L	M	G	A		
1/4	1/2	1019150	1019169	.11	.47	.31	.25	.25	.97	.62	.97	1.59	.19	1.43	.06	.06		
5/16	3/4	1019178	1019187	.17	.53	.38	.31	.31	1.15	.75	1.07	1.91	.22	1.71	.06	.06		
3/8	1	1019196	1019203	.28	.66	.44	.38	.38	1.42	.92	1.28	2.31	.25	2.02	.13	.06		
7/16	1-1/2	1019212	1019221	.43	.75	.50	.44	.44	1.63	1.06	1.48	2.67	.31	2.37	.13	.06		
1/2	2	1019230	1019249	.59	.81	.63	.50	.50	1.81	1.18	1.66	3.03	.38	2.69	.13	.06		
5/8	3-1/4	1019258	1019267	1.25	1.06	.75	.63	.63	2.32	1.50	2.04	3.76	.44	3.34	.13	.06		
3/4	4-3/4	1019276	1019285	2.63	1.25	.88	.81	.75	2.75	1.81	2.40	4.53	.50	3.97	.25	.06		
7/8	6-1/2	1019294	1019301	3.16	1.44	1.00	.97	.88	3.20	2.10	2.86	5.33	.50	4.50	.25	.06		
1	8-1/2	1019310	1019329	4.75	1.69	1.13	1.00	1.00	3.69	2.38	3.24	5.94	.56	5.13	.25	.06		
1-1/8	9-1/2	1019338	1019347	6.75	1.81	1.25	1.25	1.13	4.07	2.69	3.61	6.78	.63	5.71	.25	.06		
1-1/4	12	1019356	1019365	9.06	2.03	1.38	1.38	1.25	4.53	3.00	3.97	7.50	.69	6.25	.25	.13		
1-3/8	13-1/2	1019374	1019383	11.63	2.25	1.50	1.50	1.38	5.01	3.31	4.43	8.28	.75	6.83	.25	.13		
1-1/2	17	1019392	1019409	15.95	2.38	1.63	1.62	1.50	5.38	3.62	4.84	9.05	.81	7.33	.25	.13		
1-3/4	25	1019418	1019427	26.75	2.88	2.00	2.12	1.75	6.38	4.19	5.78	10.97	1.00	9.06	.25	.13		
2	35	1019436	1019445	42.31	3.25	2.25	2.36	2.10	7.25	5.00	6.77	12.74	1.13	10.35	.25	.13		
2-1/2	55	1019454	1019463	71.75	4.12	2.75	2.63	2.63	9.38	5.68	8.07	14.85	1.38	13.00	.25	.25		

Bolt & Nut Shackle (Omega G-2130)



Nominal Size (in.)	Working Load Limit (t)*	Stock No.		Weight Each (lbs.)	Dimensions (in.)										Tolerance +/-	
		G-2130	S-2130		A	B	C	D	E	F	H	L	N	C	A	
3/16	1/3‡	1019464	-	.06	.38	.25	.88	.19	.60	.56	1.47	.98	.19	.06	.06	
1/4	1/2	1019466	-	.11	.47	.31	1.13	.25	.78	.61	1.84	1.28	.25	.06	.06	
5/16	3/4	1019468	-	.22	.53	.38	1.22	.31	.84	.75	2.09	1.47	.31	.06	.06	
3/8	1	1019470	-	.33	.66	.44	1.44	.38	1.03	.91	2.49	1.78	.38	.13	.06	
7/16	1-1/2	1019471	-	.49	.75	.50	1.69	.44	1.16	1.06	2.91	2.03	.44	.13	.06	
1/2	2	1019472	1019481	.79	.81	.64	1.88	.50	1.31	1.19	3.28	2.31	.50	.13	.06	
5/8	3-1/4	1019490	1019506	1.68	1.06	.77	2.38	.63	1.69	1.50	4.19	2.94	.69	.13	.06	
3/4	4-3/4	1019515	1019524	2.72	1.25	.89	2.81	.75	2.00	1.81	4.97	3.50	.81	.25	.06	
7/8	6-1/2	1019533	1019542	3.95	1.44	1.02	3.31	.88	2.28	2.09	5.83	4.03	.97	.25	.06	
1	8-1/2	1019551	1019560	5.66	1.69	1.15	3.75	1.00	2.69	2.38	6.56	4.69	1.06	.25	.06	
1-1/8	9-1/2	1019579	1019588	8.27	1.81	1.25	4.25	1.13	2.91	2.69	7.47	5.16	1.25	.25	.06	
1-1/4	12	1019597	1019604	11.71	2.03	1.40	4.69	1.29	3.25	3.00	8.25	5.75	1.38	.25	.06	
1-3/8	13-1/2	1019613	1019622	15.83	2.25	1.53	5.25	1.42	3.63	3.31	9.16	6.38	1.50	.25	.13	
1-1/2	17	1019631	1019640	19.00	2.38	1.66	5.75	1.53	3.88	3.63	10.00	6.88	1.62	.25	.13	
1-3/4	25	1019659	1019668	33.91	2.88	2.04	7.00	1.84	5.00	4.19	12.34	8.80	2.25	.25	.13	
2	35	1019677	1019686	52.25	3.25	2.30	7.75	2.08	5.75	4.81	13.68	10.15	2.40	.25	.13	
2-1/2	55	1019695	1019702	98.25	4.13	2.80	10.50	2.71	7.25	5.69	17.90	12.75	3.13	.25	.25	
3	† 85	1019711	-	154.00	5.00	3.30	13.00	3.12	7.88	6.50	21.50	14.62	3.62	.25	.25	
3-1/2	† 120 ‡	1019739	-	265.00	5.25	3.76	14.63	3.62	9.00	8.00	24.88	17.02	4.38	.25	.25	
4	† 150 ‡	1019757	-	338.00	5.50	4.26	14.50	4.00	10.00	9.00	25.68	18.00	4.56	.25	.25	

Bolt & Nut Shackle (Dee G-2150)



Nominal Size (in.)	Working Load Limit (t)*	Stock No.		Weight Each (lbs.)	Dimensions (in.)										Tolerance +/-	
		G-2150	S-2150		A	B	D	F	G	K	M	P	R	G	A	
1/4	1/2	1019768	-	.13	.47	.31	.25	.62	.91	1.59	.97	1.56	.25	.06	.06	
5/16	3/4	1019770	-	.23	.53	.38	.31	.75	1.07	1.91	1.15	1.82	.31	.06	.06	
3/8	1	1019772	-	.33	.66	.44	.38	.92	1.28	2.31	1.42	2.17	.38	.13	.06	
7/16	1-1/2	1019774	-	.49	.75	.50	.44	1.06	1.48	2.67	1.63	2.51	.44	.13	.06	
1/2	2	1019775	1019784	.75	.81	.64	.50	1.18	1.66	3.03	1.81	2.80	.50	.13	.06	
5/8	3-1/4	1019793	1019800	1.47	1.06	.77	.63	1.50	2.04	3.76	2.32	3.56	.63	.13	.06	
3/4	4-3/4	1019819	1019828	2.52	1.25	.89	.75	1.81	2.40	4.53	2.75	4.15	.81	.25	.06	
7/8	6-1/2	1019837	1019846	3.85	1.44	1.02	.88	2.10	2.86	5.33	3.20	4.82	.97	.25	.06	
1	8-1/2	1019855	1019864	5.55	1.69	1.15	1.00	2.38	3.24	5.94	3.69	5.39	1.00	.25	.06	
1-1/8	9-1/2	1019873	1019882	7.60	1.81	1.25	1.13	2.68	3.61	6.78	4.07	5.90	1.25	.25	.06	
1-1/4	12	1019891	1019908	10.81	2.03	1.40	1.25	3.00	3.97	7.50	4.53	6.69	1.38	.25	.06	
1-3/8	13-1/2	1019917	1019926	13.75	2.25	1.53	1.38	3.31	4.43	8.28	5.01	7.21	1.50	.25	.13	
1-1/2	17	1019935	1019944	18.50	2.38	1.66	1.50	3.62	4.87	9.05	5.38	7.73	1.62	.25	.13	
1-3/4	25	1019953	1019962	31.40	2.88	2.04	1.75	4.19	5.82	10.97	6.38	9.33	2.12	.25	.13	
2	35	1019971	1019980	46.75	3.25	2.30	2.10	5.00	6.82	12.74	7.25	10.41	2.36	.25	.13	
2-1/2	55	1019999	1020004	85.00	4.12	2.80	2.63	5.68	8.07	14.85	9.38	13.58	2.63	.25	.25	
3	† 85	1020013	-	124.25	5.00	3.25	3.00	6.50	8.56	16.87	11.00	15.13	3.50	.25	.25	

• WIRE CLIP

Wire Clip (*klem seling* atau *kuku macan*) digunakan untuk membuat mata pada wire rope atau kawat seling.

Keuntungan : lebih flexible/tidak permanent karena mata sling bisa dibuka.

Kerugian : termination efficiency rating hanya 80%



Wire Clip Crosby G-450



Fist Grip Clip G-429



Wire Clip Galvanized RRT

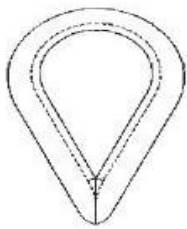


Wire Clip Bulldog Galvanized RRT

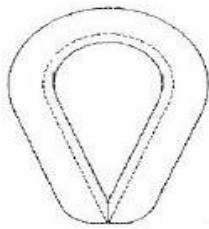
Type	Asal	Bahan Baku	Kegunaan
Standard galvanise	RRT	Mild Steel	Lashing, pagar
Galvanise HD	RRT	Mild Steel	Lashing, pagar
U bolt Crosby	Amerika	Carbon Steel	Lifting

• Thimble

Thimble atau Causan(*puki anjing*) berfungsi untuk melindungi mata wire rope.



Thimble Biasa
• RRT
• Crosby G-G411



Thimble Heavy Duty
• RRT
• Crosby G-414



Thimble Solid
• Crosby S-412

• Ring

Ring berfungsi menyatukan kaki sling untuk aplikasi mengangkat (lifting). Bisa digunakan untuk wire rope sling, chain sling, maupun webbing sling.

RING CROSBY



Alloy Master Link A-342



Master Link Assembly A-345



Welded Master Link Assembly A-347

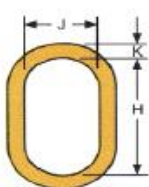


Weldless Ring S-643

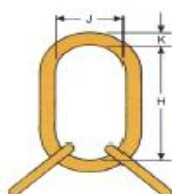


Alloy Pear Shaped Link A-341

RING PWB



Oblonk Link



Multi Oblonk Link

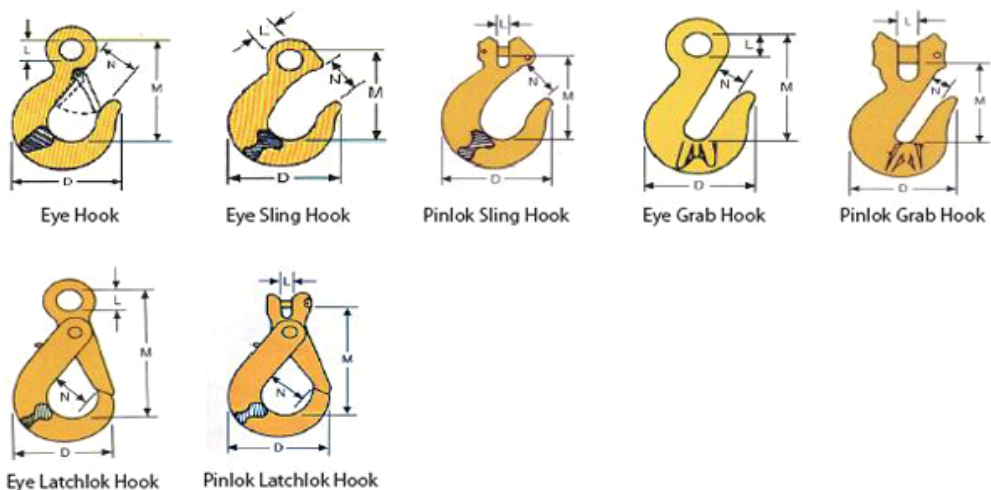
- **Hook**

Hook (*ganco* atau *kait*) berfungsi untuk mengkait barang yang akan diangkat.

Hook Crosby



Hook PWB



Hook RRT



Eye Hook
with latch kit



Swivel Hook
with latch kit



Clamp Hook



Sorting Hook



Clevis Grab Hook

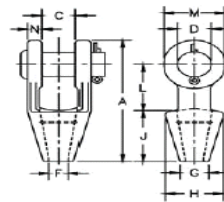
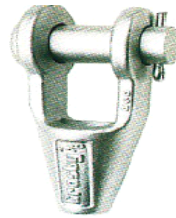


Twist Hook

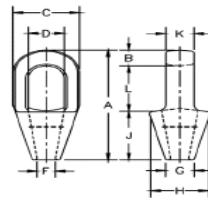
• Socket

Socket diterminasi di ujung wire rope sehingga wire rope tersebut dapat disambung dengan rigging lain.

Crosby Open Spelter Socket G-416



Crosby Closed Spelter Socket G-417



SOCKET LAIN



Crosby Wedge Socket
S-421T



Open Swage Socket
S-501



Closed Swage Socket
S-502

• Swievel

Swievel (*kili kili*) fungsinya supaya sling yang digunakan tidak kusut.



Crosby Swievel G-401



Crosby Swievel G-402



Crosby Swievel G-403

• Camlok Container Lifting Lugs

Digunakan untuk mengangkat container dengan dikasih shackle untuk disambungkan ke wire rope.



WIRELOCK

Wirelock®



Wirelock® adalah cairan campuran yang digunakan untuk men-terminasi wire rope ke spelter socket.

Wirelock® mulai diproduksi tahun 1962, dan sudah digunakan lebih dari 40 tahun.

Wirelock® mengurangi resiko pekerjaan karena tidak membutuhkan cairan metal yang panas, dapat dikerjakan di lapangan pada segala cuaca,

Keuntungan memakai Wirelock®:

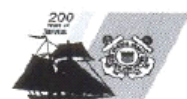
- Tidak menggunakan panas
- Tidak menggunakan acid
- Tidak memerlukan keahlian khusus
- Tidak memerlukan peralatan mahal
- Tidak membutuhkan tempat penyimpanan khusus
- Tidak perlu menebak temperatur
- Tidak memerlukan cairan metal panas yang berbahaya
- Tidak membutuhkan waktu lama untuk kering
- Tidak kehilangan lubrikasi di leher Socket

Approvals:

- Lloyd's Register of Shipping
- Det Norske Veritas (DNV)
- United States Coastal Guard
- Registro Italiano Navale
- Germanischer Lloyd
- United States Navy
- American Bureau of Shipping (ABS)



U.S. Department
of Transportation
United States
Coast Guard

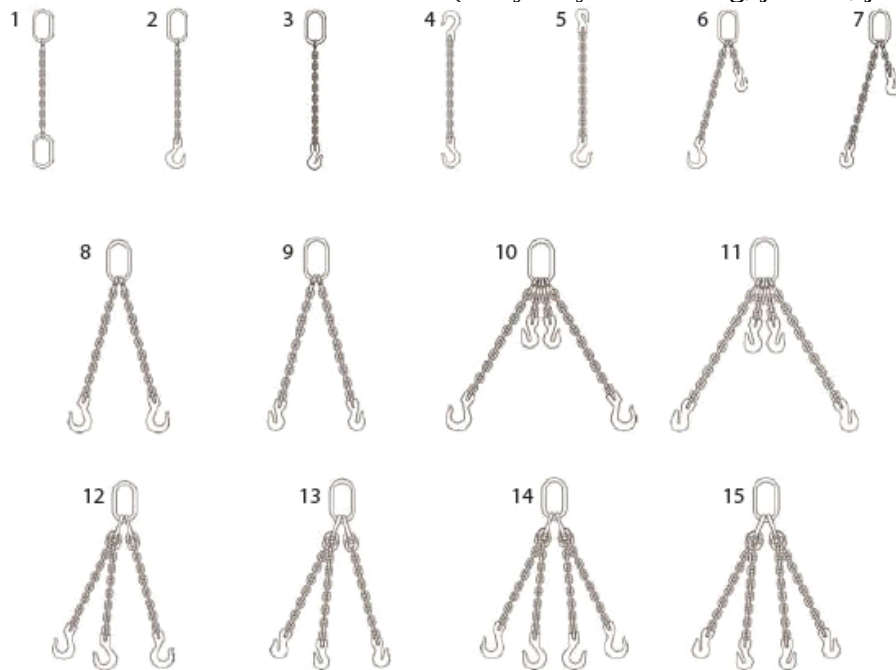


CHAIN SLING

Informasi yang diperlukan saat memesan Chain Sling:

- Ukuran rantai atau berat beban yang akan diangkat.

- Tergantung bentuk dan ukuran beban yang akan diangkat, pilih jenis assembly rantai yang paling sesuai untuk memindahkan beban. (Banyaknya kaki Sling, jumlah, jenis, dan ukuran aksesoris)



- Panjang jadi atau effective length



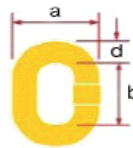
RANTAI LAIN

Rantai Lain:

- Rantai Stainless Steel
- Rantai Galvanis
- Rantai Hitam / S. Color

Untuk Aplikasi:

- Dapra
- Lashing
- Pagar
- Dekorasi



Dimensi Rantai Galv/Hitam

Diameter (d)		Type	Berat per karung	Dimensi			
				Panjang Dalam (b)	Panjang Luar (b+d)	Lebar Dalam	Lebar Luar (a)
3 mm	1/8"	Short link	50 / 100 kg	16 mm	22.4 mm	5.6 mm	12 mm
4 mm	5/32"	Short link	50 / 100 kg	18.5 mm	26.5 mm	6.5 mm	14.5 mm
5 mm	3/16"	Short link	50 / 100 kg	19 mm	28.4 mm	7.6 mm	17 mm
6 mm	1/4"	Short link	50 / 100 kg	22 mm	34.7 mm	8.3 mm	21 mm
8 mm	5/16"	Short link	50 / 100 kg	26 mm	42 mm	10.12 mm	26 mm
10 mm	3/8"	Short link	50 / 100 kg	28 mm	47 mm	13 mm	32 mm
12 mm	1/2"	Short link	50 / 100 kg	39 mm	64.4 mm	17.6 mm	43 mm
16 mm	5/8"	Medium link	50 / 100 kg	60 mm	91.6 mm	25.1 mm	56.7 mm
18 mm	3/4"	Medium link	50 / 100 kg	76 mm	114 mm	31 mm	69 mm
22 mm	7/8"	Medium link	100 / 200 kg	90 mm	134.4 mm	35.6 mm	80 mm
24 mm	1"	Medium link	250 / 300 kg	105 mm	155.8 mm	44.2 mm	95 mm

ROPE / TALI KAPAL

KARAKTERISTIK TALI

	Sisal	Manila	Polyethylene (PE)	Polypropylene Monofilament (PP Mono)	Polypropylene Multifilament (PP Multi)	Nylon
Konstruksi	3 strand	3 strand	3 & 4 strand	3 & 8 strand	3 & 8 strand	3 & 8 strand
Ukuran						
Diameter:	6 - 24mm	6 - 64mm	6 - 24mm	6 - 144mm	6 - 96mm	6 - 96mm
Circumference:				3/4" - 14"	3/4" - 12"	3/4" - 12"
Breaking Strength gram/denier	4.0-5.0	5.0-6.0	6.0	6.5	n/a	7.0-9.5
Kekuatan saat basah	s/d 120%	s/d 120%	s/d 120%	100%	100%	85-90%
Kemampuan menerima gantakan	Buruk	Buruk	Sedang	Cukup Baik	Baik	Sangat Baik
Karakteristik di air	Tenggelam	Tenggelam	Mengapung	Mengapung	Tenggelam	Tenggelam
Kemampuan stretch	10-12%	10-12%	15-25%	15-25%	18-25%	s/d 40%
Kemampuan menyerap air	100%	100%	0%	0%	2-8%	2-8%
Ketahanan terhadap sinar matahari	Baik	Baik	Baik	Buruk	Baik	Baik
Ketahanan terhadap embun dan pembusukan	Buruk	Buruk	Sangat Baik	Sangat Baik	Sangat Baik	Sangat Baik
Ketahanan terhadap gesekan:						
Di permukaan	Sedang	Baik	Baik	Baik	Sangat Baik	Sangat Baik
Di bagian dalam	Sedang	Sedang	Baik	Baik	Sangat Baik	Sangat Baik
Ketahanan terhadap panas						
meleleh pada suhu:	176.6 °C	176.6 °C	135 °C	165.5 °C	n/a	215-249 °C
Ketahanan terhadap Acid	Buruk	Buruk	Sangat Baik	Sangat Baik	Sedang	Sedang
Ketahanan terhadap Alkali	Buruk	Buruk	Sangat Baik	Sangat Baik	Sangat Baik	Sangat Baik
Ketahanan terhadap minyak & gas	Buruk	Buruk	Sangat Baik	Sangat Baik	Sangat Baik	Sangat Baik
Warna	Coklat Muda	Coklat	Variasi	Putih strip biru	Putih	Putih

PP MONOFILAMENT ROPE

UKURAN			M.B.L (Ton)	Berat (Kg)	Strand
Dia (mm)	Dia (Inch)	Cir (Inch)			
6 mm	1/4"	3/4"	0.62	3.60	3 Strand
8 mm	5/16"	1"	1.10	6.50	3 Strand
10 mm	13/32"	1-1/4"	1.57	10.00	3 Strand
12 mm	1/2"	1-1/2"	2.23	14.00	3 Strand
14 mm	9/16"	1-3/4"	3.05	20.00	3 Strand
16 mm	5/8"	2"	3.77	25.00	3 Strand
19 mm	3/4"	2-3/8"	5.31	33.00	3 Strand
20 mm	13/16"	2-1/2"	5.80	40.00	3 Strand
22 mm	7/8"	2-3/4"	6.95	47.00	3 Strand
24 mm	1"	3"	8.13	55.00	3 Strand
28 mm	1-1/8"	3-1/2"	10.70	75.00	3 Strand
32 mm	1-1/4"	4"	13.50	100.00	3 Strand
36 mm	1-7/16"	4-1/2"	16.90	130.00	3 Strand
38 mm	1-1/2"	4-3/4"	18.70	-	3 Strand
40 mm	1-19/32"	5"	25.60	155	8 Strand
48 mm	1-7/8"	6"	35.90	225	8 Strand
56 mm	2-1/4"	7"	47.50	305	8 Strand
64 mm	2-1/2"	8"	61.50	407	8 Strand
72 mm	2-7/8"	9"	77.20	508	8 Strand
80 mm	3-5/32"	10"	95.00	620	8 Strand
96 mm	3-25/32"	12"	135.00	910	8 Strand
110 mm	4-1/2"	14"	181.00	1,230	8 Strand

*Berat berdasarkan 220 Mtr/coil

PP MULTI 16 STRAND BRAIDED ROPE

UKURAN			Berat (kg)	Panjang (mtr)
Dia (mm)	Dia (Inch)	Cir (Inch)		
6 mm	1/4"	3/4"	2.00	100
8 mm	5/16"	1"	3.40	100
10 mm	13/32"	1-1/4"	5.40	100
12 mm	1/2"	1-1/2"	7.20	100



PP MULTIFILAMENT ROPE

UKURAN			M.B.L (Ton)	Berat (Kg)	Strand
Dia (mm)	Dia (Inch)	Cir (Inch)			
6 mm	1/4"	3/4"	0.60	4	3 Strand
8 mm	5/16"	1"	1.06	7	3 Strand
10 mm	13/32"	1-1/4"	1.56	12	3 Strand
12 mm	1/2"	1-1/2"	2.21	15	3 Strand
14 mm	9/16"	1-3/4"	3.05	22	3 Strand
16 mm	5/8"	2"	3.78	27	3 Strand
19 mm	3/4"	2-3/8"	4.82	34	3 Strand
20 mm	13/16"	2-1/2"	5.80	44	3 Strand
22 mm	7/8"	2-3/4"	6.96	50	3 Strand
24 mm	1"	3"	8.13	60	3 Strand
28 mm	1-1/8"	3-1/2"	10.70	80	3 Strand
32 mm	1-1/4"	4"	13.50	110	3 Strand
36 mm	1-7/16"	4-1/2"	16.90	140	3 Strand
40 mm	1-19/32"	5"	20.50	170	8 Strand
48 mm	1-7/8"	6"	28.60	240	8 Strand
56 mm	2-1/4"	7"	37.90	330	8 Strand
64 mm	2-1/2"	8"	49.00	427	8 Strand
72 mm	2-7/8"	9"	61.50	541	8 Strand
80 mm	3-5/32"	10"	75.60	658	8 Strand
96 mm	3-25/32"	12"	107.00	938	8 Strand
110 mm	4-1/2"	14"	141.80	1,298	8 Strand
110 mm	4-1/2"	14"	181.00	1,230	8 Strand



* berdasarkan 220 Mtr/coil

HDPE ROPE

UKURAN			Berat (Kg)	Strand
Dia (mm)	Dia (Inch)	Cir (Inch)		
6 mm	1/4"	3/4"	3.80	3 Strand
8 mm	5/16"	1"	7.80	3 Strand
10 mm	13/32"	1-1/4"	11.00	3 Strand
12 mm	1/2"	1-1/2"	15.50	3 Strand
14 mm	9/16"	1-3/4"	22.00	3 Strand
16 mm	5/8"	2"	29.00	3 Strand
19 mm	3/4"	2-3/8"	35.00	3 Strand
20 mm	13/16"	2-1/2"	44.00	3 Strand
22 mm	7/8"	2-3/4"	54.00	3 Strand
24 mm	1"	3"	64.00	3 Strand
28 mm	1-1/8"	3-1/2"	84.00	3 Strand
32 mm	1-1/4"	4"	-	3 Strand
36 mm	1-7/16"	4-1/2"	-	3 Strand
38 mm	1-1/2"	4-3/4"	-	3 Strand



*Berat berdasarkan 220 Mtr/coil

MANILA ROPE

UKURAN			M.B.L (Ton)	Berat (Kg)	Panjang (Mtr)	Strand
Dia (mm)	Dia (Inch)	Cir (Inch)				
4 mm	3/16"	1/2"	0.16	5.00	330	3 Strand
6 mm	1/4"	3/4"	0.33	10.50	330	3 Strand
8 mm	5/16"	1"	0.48	13.50	250	3 Strand
10 mm	13/32"	1-1/4"	0.64	17.50	220	3 Strand
12 mm	1/2"	1-1/2"	0.95	24.50	220	3 Strand
14 mm	9/16"	1-3/4"	1.28	31.00	220	3 Strand
16 mm	5/8"	2"	1.78	42.00	220	3 Strand
19 mm	3/4"	2-3/8"	2.13	52.50	220	3 Strand
20 mm	13/16"	2-1/2"	2.84	61.00	220	3 Strand
22 mm	7/8"	2-3/4"	3.40	72.50	220	3 Strand
24 mm	1"	3"	4.06	89.00	220	3 Strand
28 mm	1-1/8"	3-1/2"	5.33	118.00	220	3 Strand
32 mm	1-1/4"	4"	6.86	155.00	220	3 Strand
36 mm	1-7/16"	4-1/2"	8.64	199.00	220	3 Strand
38 mm	1-1/2"	4-3/4"	9.65	221.00	220	3 Strand
40 mm	1 5/8"	5"	10.40	242.00	220	3 Strand
45 mm	1-3/4"	5-5/8"	12.70	296.00	220	3 Strand
48 mm	1-15/16"	6"	14.70	349.00	220	3 Strand
50 mm	2"	6-1/4"	16.77	368.00	220	3 Strand
56 mm	2-1/4"	7"	19.80	475.00	220	3 Strand
60 mm	2-3/8"	7-1/2"	22.60	500.00	220	3 Strand
64 mm	2-1/2"	8"	25.70	580.00	220	3 Strand



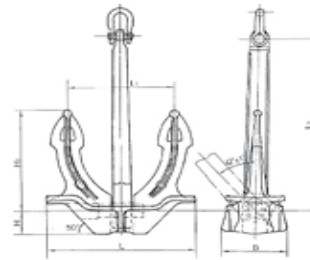
Tali lain2 : Nilon Rope (100% nylon) & Mix Rope

ANCHOR & ANCHOR CHAIN

JANGKAR DAN RANTAI JANGKAR

JANGKAR KODOK

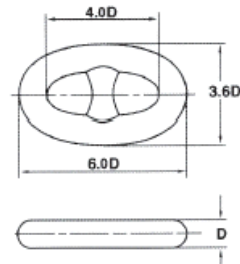
HALL TYPE STOCKLESS ANCHOR



Nominal Weight (Kg)	L	L1	L2	H	H1	B
100	540	378	750	91	395	230
125	580	405	810	97	425	248
150	612	432	855	104	452	264
180	650	459	910	111	480	280
240	720	510	1010	122	530	310
280	760	534	1060	130	560	325
300	770	540	1080	131	570	331
320	790	560	1100	132	580	338
360	820	580	1150	139	610	353
420	860	610	1200	146	640	370
480	900	640	1260	153	670	387
520	920	652	1295	158	680	400
570	950	670	1330	162	700	408
660	1000	710	1440	170	740	430
780	1060	750	1480	180	780	456
850	1090	770	1530	185	800	468
900	1110	780	1550	189	820	477
1020	1160	820	1620	197	860	500
1140	1200	850	1680	204	890	520
1290	1250	880	1750	212	920	540
1440	1300	920	1820	221	960	560
1590	1340	950	1880	228	990	580
1740	1380	980	1930	235	1020	600
1920	1430	1010	2000	243	1060	620
2100	1470	1040	2060	250	1090	640
2280	1510	1070	2110	257	1120	650
2460	1550	1100	2170	264	1150	670
2640	1590	1120	2230	270	1180	690
2850	1630	1150	2280	277	1210	700
3060	1670	1180	2340	284	1240	720
3300	1710	1210	2390	291	1270	740
3540	1750	1240	2450	298	1290	750
3780	1790	1260	2510	304	1320	770
4050	1830	1290	2560	311	1350	790

RANTAI JANGKAR

ANCHOR CHAIN / STUD LINK CHAIN

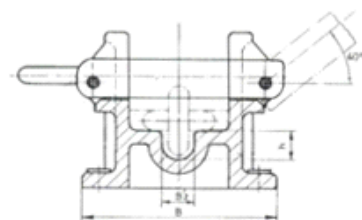
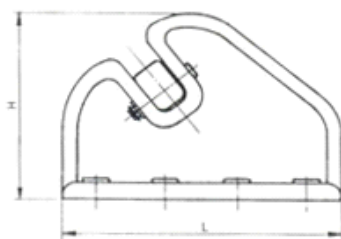


Diameter of Chain (mm)	Grade U2		Grade U3	
	PL C=0,098	BL C=0,0137	PL C=0,0137	BL C=0,0196
	KN	KN	KN	KN
14	82	116	-	-
16	107	150	-	-
17.5	127	179	-	-
19	150	211	-	-
20.5	175	244	-	-
22	200	280	-	-
24	237	332	-	-
26	278	389	-	-
28	321	449	449	642
30	368	514	514	735
32	417	583	583	833
34	468	655	655	937
36	523	732	732	1050
38	581	812	812	1160
40	640	896	896	1280
42	703	981	981	1400
44	769	1080	1080	1540
46	837	1170	1170	1680
48	908	1270	1270	1810
50	981	1370	1370	1960
52	1060	1480	1480	2110
54	1140	1590	1590	2270
56	1220	1710	1710	2430
58	1290	1810	1810	2600
60	1380	1940	1940	2770

Diameter of Chain (mm)	Grade U2		Grade U3	
	PL C=0,098	BL C=0,0137	PL C=0,0137	BL C=0,0196
	KN	KN	KN	KN
62	1470	2060	2060	2940
64	1560	2190	2190	3130
66	1660	2310	2310	3300
68	1750	2450	2450	3500
70	1840	2580	2580	3690
73	1990	2790	2790	3990
76	2150	3010	3010	4300
78	2260	3160	3160	4500
81	2410	3380	3380	4820
84	2580	3610	3610	5160
87	2750	3850	3850	5500
90	2920	4090	4090	5840
92	3040	4260	4260	6080
95	3230	4510	4510	6440
97	3340	4680	4680	6690
100	3530	4940	4940	7060
102	3660	5120	5120	7320
105	3850	5390	5390	7700
107	3980	5570	5570	7960
111	4250	5940	5940	8480
114	4440	6230	6230	8890
117	4650	6510	6510	9300
120	4850	6810	6810	9720
122	5000	7000	7000	9990

* Setiap length rantai jangkar terdiri dari 27.5 Mtr

CHAIN STOPPER (BOLT TYPE)

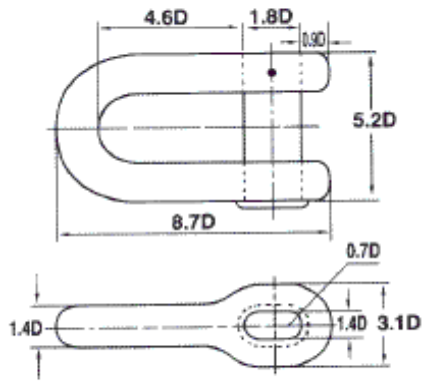


The BAR can be opened in the right or left hand side

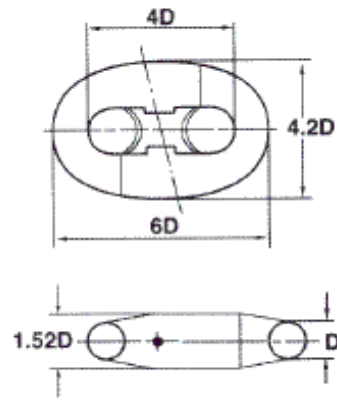
Nominal No.	Cable Dia.	B	H	L	h	B2	Mass kg
19	17-19	195	190	270	32	32	22
22	20-22	215	216	310	37	38	31
25	23-25	240	241	345	43	43	44
28	26-28	265	270	385	48	49	58
32	30-32	305	305	435	54	55	89
36	34-36	340	342	490	61	61	122
40	38-40	370	378	540	68	65	160
44	42-44	405	412	590	75	72	208
48	46-48	440	450	640	82	78	272
52	50-52	470	491	695	88	85	338
56	54-56	495	522	745	95	92	414
60	58-60	530	564	795	102	98	505
64	62-64	565	600	850	109	104	618
68	66-68	590	635	900	116	110	737

AKSESORIS RANTAI JANGKAR

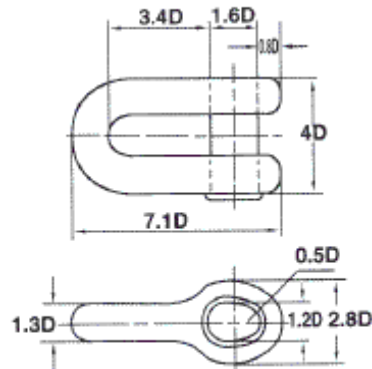
ANCHOR CHAIN ACCESSORIES



Anchor Shackle Type "D"



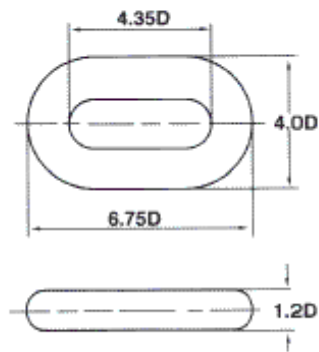
Kenter Shackle



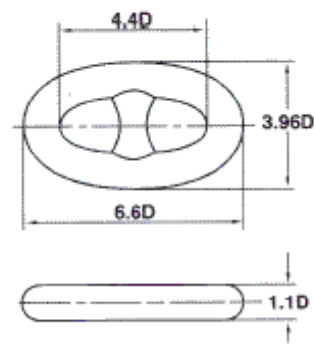
Joining Shackle Type "D"



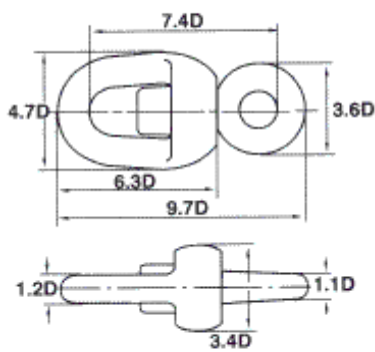
Swivel Piece



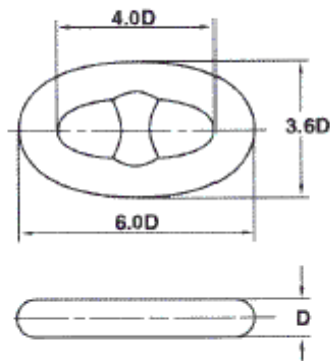
End Link (E)



Enlarged Link (EL)



Swivel (SW)



Common Link (CL)

MARINE SAFETY

• Liferaft & Accessories

Liferaft adalah rakit atau sekoci penyelamat yang digunakan untuk menyelamatkan penumpang saat kapal karam atau dalam keadaan darurat. Sekoci yang dijual oleh PT. Biru Laut Mandiri adalah type inflatable liferaft.



Throw-Overboard Inflatable Liferaft

Capacity (Person)	Weight (Kg)	Container Size (mm)
6	85 kg	ø 600 x 1140
10	105 kg	ø 620 x 1260
15	135 kg	ø 660 x 1340
20	165 kg	ø 700 x 1460
25	185 kg	ø 700 x 1460

1996 amendment to the International Convention for the Safety of Life at Sea 1974 and MSC.48 (66) The International Life-Saving Appliance Code and Register of Shipping of the People's Republic of China «Technical Regulation for Statutory Surveys of Sea-going Ships Engaged on International Voyages» 1999.



Dudukan liferaft



Daylight Signalling Mirror

• Life Jacket

Life Jacket atau life vest, dalam bahasa Indonesia disebut baju pelampung adalah rompi yang digunakan untuk menjaga seseorang tetap mengapung di air.



Life Jacket



Life Jacket



Life Jacket



Life Jacket Light

• Ring Buoy

Ring Buoy atau life buoy adalah ring pelampung adalah alat yang dilemparkan ke air untuk membantu seseorang tetap mengapung.



Ring Buoy



Ring Buoy Light

- **Pyrotechnic Signal**

PYROTECHNIC SIGNAL



Parachute Signal



Red Hand Flare



Smoke Signal



Man Overboard



Line Throwing

- **Fireproof Lifeline**



WEBBING SLING



SYNTHETIC WEBBING SLING



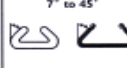
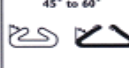
Eye to Eye



Endless



Roundslings

SAFETY COLOUR CODE 7-1 SAFETY FACTOR	STRAIGHT LIFT		CHOKE LIFT		BASKET LIFT		MULTI-LEG SLINGS	
								
MODE FACTOR	1.0	0.8	2.0	1.4	1.0	1.4	2.0	
VIOLET	1000	800	2000	1400	1000	1400	2000	
GREEN	2000	1600	4000	2800	2000	2800	4000	
YELLOW	3000	2400	6000	4200	3000	4200	6000	
GREY	4000	3200	8000	5600	4000	5600	8000	
RED	5000	4000	10000	7000	5000	7000	10000	
BROWN	6000	4800	12000	8400	6000	8400	12000	
BLUE	8000	6400	16000	11200	8000	11200	16000	
ORANGE	10000	8000	20000	14000	10000	14000	20000	
ORANGE	12000	9600	24000	16800	12000	16800	24000	

* Anyaman sampling dan penutup mata melindungi Webbing Sling dan memperpanjang usia pakai

ANODE

Anode sering disebut anti karat adalah logam terbuat dari zinc atau aluminium yang dipasang di bagian luar pelat kapal berfungsi untuk menetralsir karat.

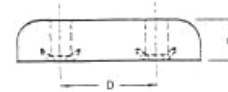
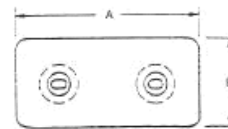
Zinc Anode

Type B (Bolted Type)

Type	Dimension AxBxC	Weight (kg)
B2	150x75x25	1.46
B3	200x100x20	2.5
B4	200x100x30	3.6
B5/B6	200x100x40	5.9
B8	300x150x25	7.3
B9	300x150x30	8.3

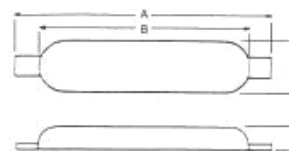
Type S (Welded Type)

Type	Dimension AxBxC	Weight (kg)
S2	150x75x25	2
S3	200x100x20	3
S4	200x100x30	4.2
S6	300x150x20	6.5
S8	300x150x25	8
S9	300x150x30	9.5
S9E	300x150x40	12



Aluminium Anode

Type	Dimension BxCxD	Weight (kg)
W 130	270x150x30	3.2
W 111	395x150x30	5.2
W 114	550x127x50	9.8
W 117	550x130x65	11.6
W 119	550x130x75	14.1



POLYFORM BUOY AND FENDER

Polyform buoy and fender adalah pelampung yang digunakan untuk melindungi body kapal dari benturan dan karena sifatnya yang mengapung dapat digunakan sebagai penanda di air.



Standard colours: ☐ ☒



Art.No.	Volume liter	mm	mm	mm	kg
F1	8	610	145	18	1,1
F02	15	660	190	22	1,5
F2	16	610	215	22	1,9
F3	22	745	215	22	2,1
F4	35	1050	215	22	3,1
F5	40	775	290	24	3,1
F6	70	1090	290	24	4,6
F7	95	1020	375	24	6,2
F8	150	1450	375	24	7,0
F11	310	1455	600	35	11,5
F13	750	1950	800	40	24,0

Standard colours: ☐ ☒ ☐



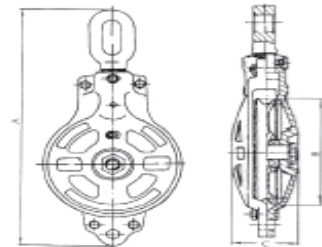
Art.No.	kg*	mm	mm	mm	kg
A0	6,5 / 4,0	280	230	25	0,7
A1	16,0 / 9,5	390	310	25	1,2
A2	35,0 / 21,0	510	400	25	2,1
A3	62,0 / 37,5	620	480	25	3,0
A4	115,0 / 69,0	730	590	27	4,1
A5	225,0 / 135,0	940	750	30	8,5
A6	430,0 / 258,0	1190	930	38	13,5
A7	670,0 / 402,0	1420	1100	60	24,0

* Gross Buoyancy / Recommended maximum Load

MARINE BLOCK

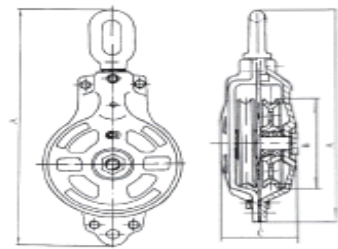
HC Series Marine Block Single with Eye

Ukuran	S.W.L	Masuk Tali
8"	3 Ton	16-20 mm
10"	3 Ton	16-20 mm
12"	5 Ton	20-22 mm
14"	5 Ton	20-24 mm
16"	10 Ton	24-26 mm
17"	16 Ton	26-28 mm
18"	20 Ton	26-28 mm



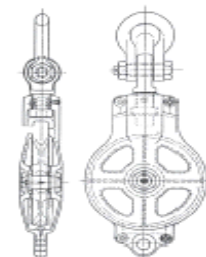
HC Series Marine Block Double with Eye

Ukuran	S.W.L	Masuk Tali
8"	5 Ton	16-20 mm
10"	8 Ton	16-20 mm
12"	10 Ton	20-22 mm
14"	16 Ton	20-24 mm
16"	20 Ton	24-26 mm
17"	25 Ton	26-28 mm
18"	32 Ton	26-28 mm



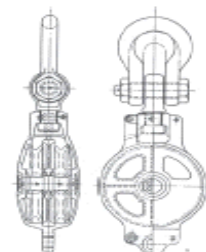
Marine Block Single with Shackle

Ukuran	S.W.L	Masuk Tali
14"	5 Ton	20-24mm
16"	10 Ton	24-26mm
18"	20 Ton	26-28mm



Marine Block Double with Shackle

Ukuran	S.W.L	Masuk Tali
14"	16 Ton	20-24mm
16"	20 Ton	24-26mm
18"	32 Ton	26-28mm



WOODEN BLOCK

Wooden Block Single with Eye / Hook

Ukuran	S.W.L	Untuk Tali
	(Kg)	(MM)
6"	816.50	14
8"	1,270.00	18
10"	1,814.40	22
12"	2,268.00	24



Wooden Block Double with Eye / Hook

Ukuran	S.W.L	Untuk Tali
	(Kg)	(MM)
6"	1,134.00	14
8"	1,723.70	18
10"	2,721.60	22
12"	3,628.80	24



Wooden Block Single with Swivel Hook

Ukuran	S.W.L	Untuk Tali
	(Kg)	(inch)
6"	907.20	1"
8"	1,360.80	1 1/8"
10"	2,268.00	1 1/4"
12"	3,084.50	1 1/2"



Wooden Block Double with Swivel Hook

Ukuran	S.W.L	Untuk Tali
	(Kg)	(inch)
6"	1,496.90	1"
8"	2,313.36	1 1/8"
10"	3,492.72	1 1/4"
12"	4,808.16	1 1/2"

CROSBY BLOCK



Crosby 408 Light Champion
Snatch Block Double w Hook



Crosby 418 Light Champion
Snatch Block Single w Hook



Crosby 420 Champion Snatch
Block w Hook



Crosby 409 Light Champion
Snatch Block Double Shackle



Crosby 419 Light Champion
Snatch Block Single Shackle



Crosby 420 Champion Snatch
Block Shackle

CHAIN & LEVER BLOCK



Chain Block



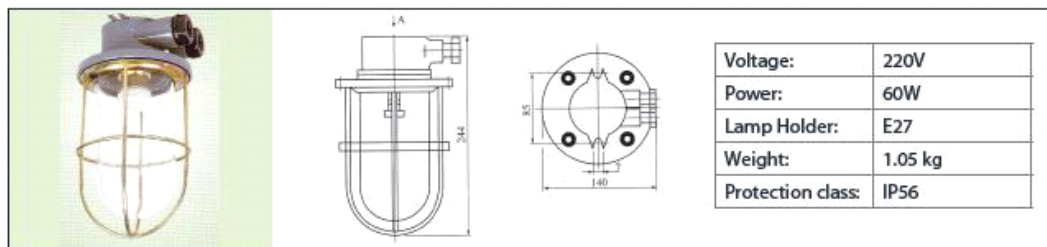
Lever Block

ELECTRICAL

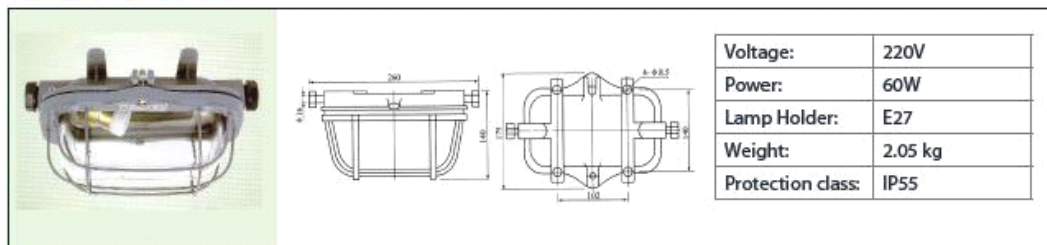
Pendant Light

Pendant light atau lampu pendant adalah lampu yang dipasang diatas kapal untuk penerangan umum.

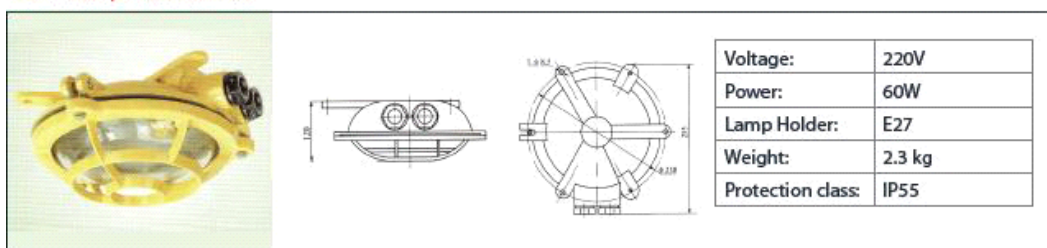
CCD6-2 Lampu Pendant Aluminium



CCD2-1-2 Lampu Pendant Roti

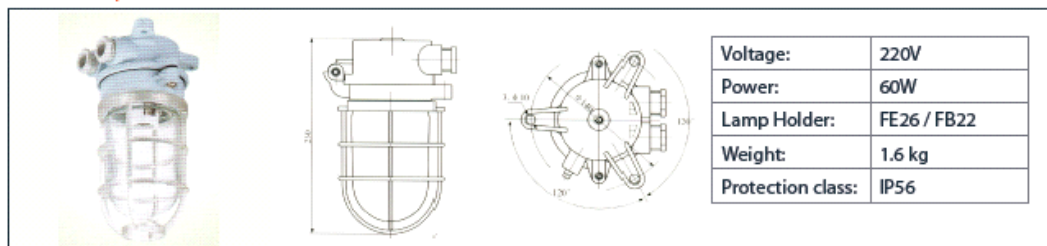


CCD4-1 Lampu Pendant Bulat

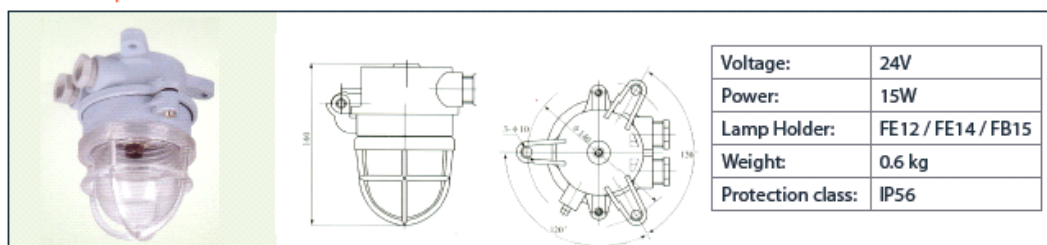


CCD6-2, CCD2-1-2, dan CCD4-1 terbuat dari aluminium tahan karat digunakan untuk penerangan di kabin atau tempat basah seperti di dek dan sidewalk.

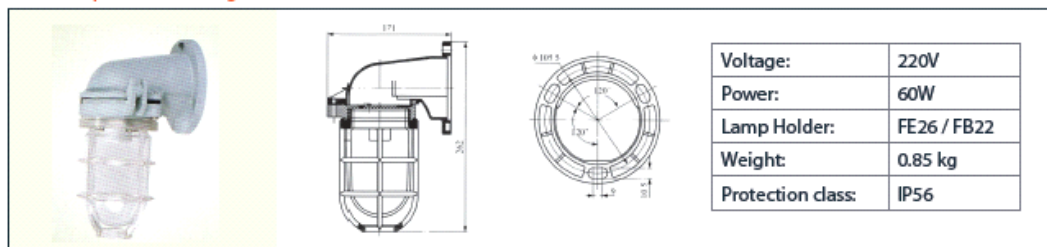
DS7-2M Lampu Pendant Fiber



DS7-1M Lampu Pendant Fiber Kecil



WB-2 Lampu Pendant Bengkok



- DS7-2M, DS7-1M, WB-2 terbuat dari Engineered Resin sehingga tidak berkarat.
- conform to: JISF8414-1990 standard, Approved by CE.
- Digunakan untuk menerangi tempat basah seperti kabin, dek, dan sidewalk.

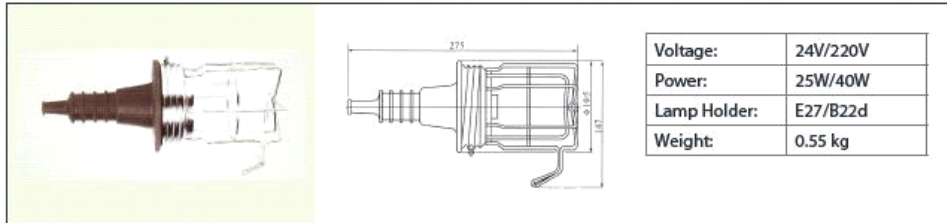


Replacement Glass untuk Lampu Pendant

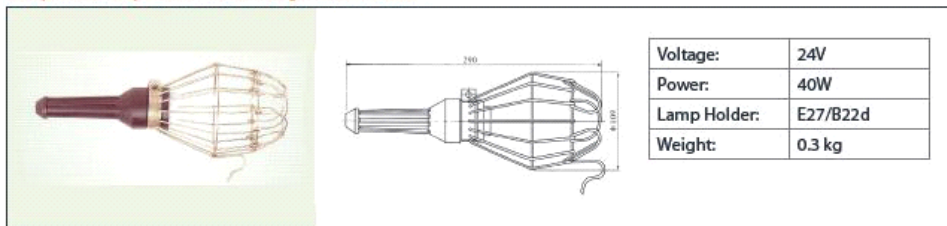
Portable Light / Lampu Jalan

Portable light atau lampu jalan adalah lampu yang digunakan oleh krew saat melakukan perawatan pada malam hari. Lampu jalan juga banyak digunakan di dok dan bengkel saat perbaikan kapal.

Lampu Jalan dengan Kaca / Portable Light with Glass



Lampu Jalan tanpa Kaca / Portable Light without Glass

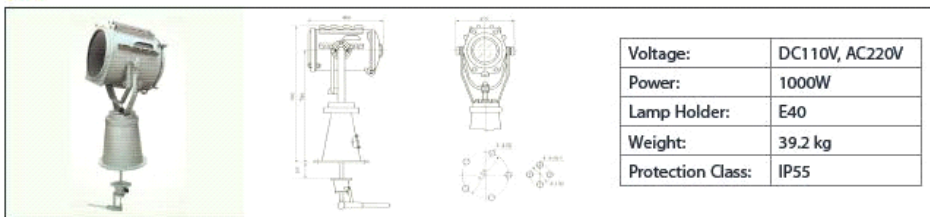


- Pegangan lampu jalan terbuat dari karet sehingga tidak licin.
- Jaring metal digunakan untuk melindungi bohlam.
- Digunakan untuk menerangi tempat kerja sementara, dan digunakan untuk mengecek bagian bagian kapal, dan saat bongkar muat barang.

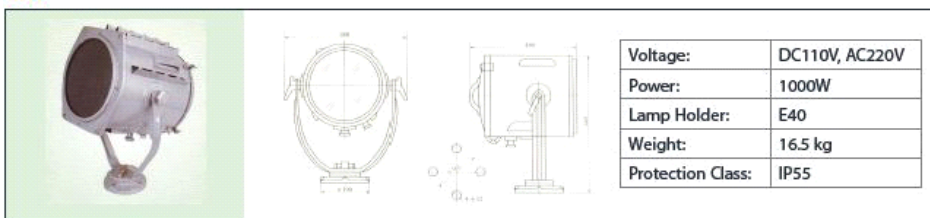
Search Light

Search light / lampu sorot digunakan di kapal untuk membantu menerangi jalan kapal pada malam hari.

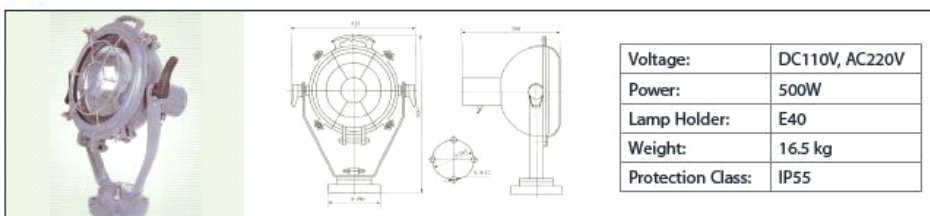
CTG3



TG14



TG-2B



- CTG3, TG14 dan TG-2B digunakan untuk menerangi area yang luas seperti di dok, pelabuhan, tambang, tempat konstruksi, dll
- Bagian dasar CTG 3 dilengkapi ball plates dengan lever untuk meningkatkan fleksibilitas dan memudahkan operasi.

Navigation Light

Navigation Light atau lampu navigasi adalah lampu yang digunakan diatas kapal untuk menentukan arah, posisi, dan jenis kapal pada malam hari.

1. LAMPU NAVIGASI SINGLE



CXH1-11P
full plastic starboard
light



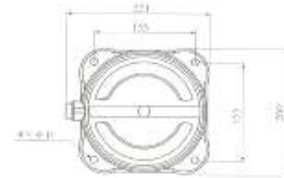
CXH2-11P
full plastic port light



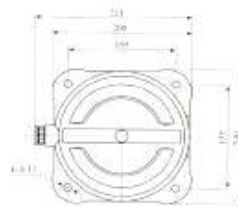
CXH3-11P
full plastic masthead
light



CXH4-11P
full plastic sternlight



CXH6-11P
full plastic all-round
light



TYPE	NAME	VISIBILITY	LEVEL ARC	LAMP HOLDER	BULB	PROTECTION CLASS	COLOR	WEIGHT
CXH1-11P	Full plastic starboard light	3n.m	112.5°	B22d	230V 65W 60cd 115V 60W 60cd 24V 40W 60cd	IP56	Green	2.6 kg
CXH2-11P	Full plastic port light	3n.m	112.5°				Red	2.6 kg
CXH3-11P	Full plastic masthead light	6n.m	225°				Transparent	2.5 kg
CXH4-11P	Full plastic stern light	3n.m	135°				transparent, grey yellow	2.7 kg
CXH6-11P	Full plastic all-round light	3n.m	360°				Red Green, Transparent	2.2 kg



CXH1-1P
full plastic starboard
light



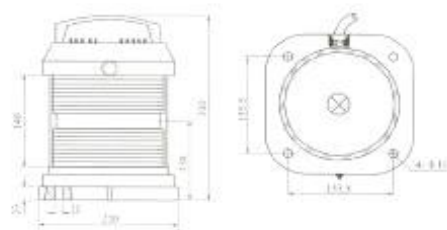
CXH2-1P
full plastic port light



CXH3-1P
full plastic masthead
light



CXH4-1P
full plastic sternlight



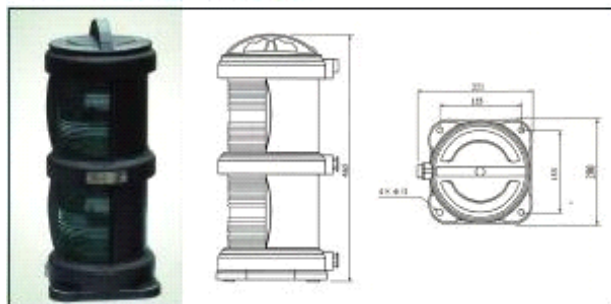
CXH6-1P
full plastic all-round
light



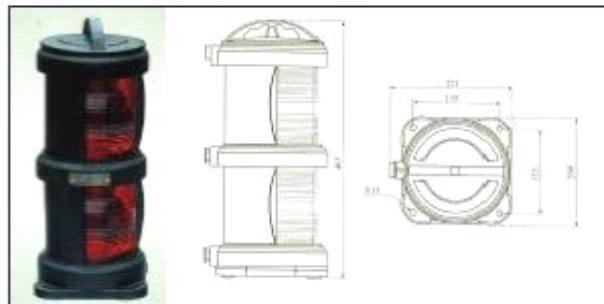
TYPE	NAME	VISIBILITY	LEVEL ARC	LAMP HOLDER	BULB	PROTECTION CLASS	COLOR	WEIGHT
CXH1-1P	Full plastic starboard light	3n.m	112.5°	B22d	24V 60W 110V 65W 220V 65W	IP56	Green	2.6 kg
CXH2-1P	Full plastic port light	3n.m	112.5°				Red	2.6 kg
CXH3-1P	Full plastic masthead light	6n.m	225°				Transparent	2.5 kg
CXH4-1P	Full plastic stern light	3n.m	135°				transparent, yellow	2.7 kg
CXH6-1P	Full plastic all-round light	3n.m	360°				Red Green, Transparent	2.2 kg

2. LAMPU NAVIGASI DOUBLE

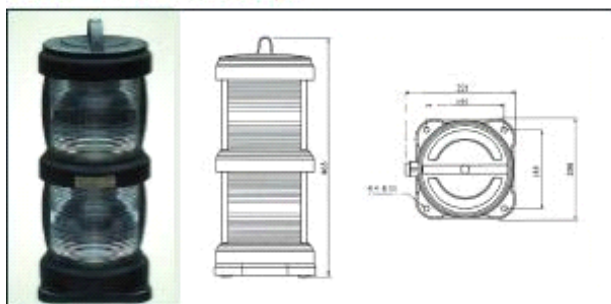
CXH1-101P - full plastic
double - deck starboard light



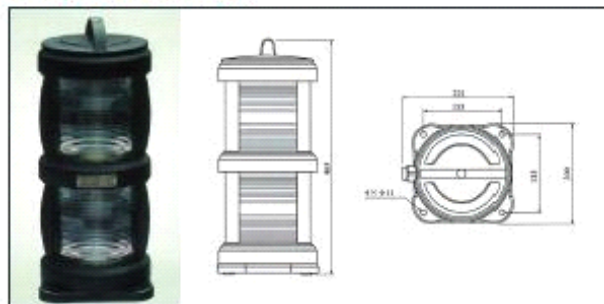
CXH2-101P - full plastic
double - deck port light



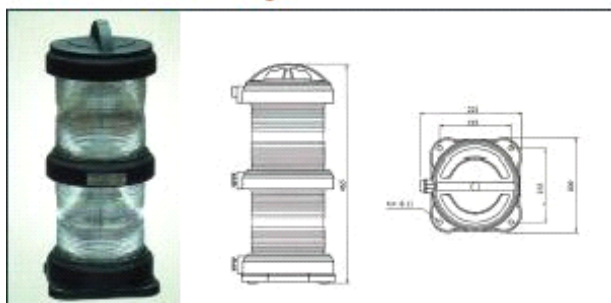
CXH3-101P - full plastic
double - deck masthead light



CXH4-101P - full plastic
double - deck sternlight

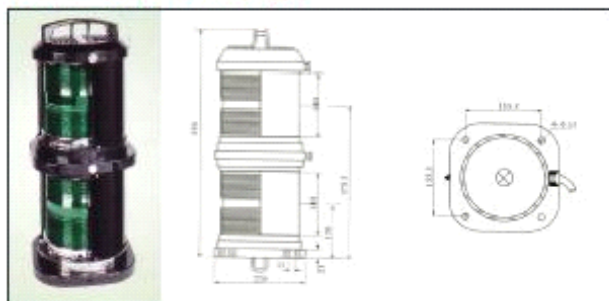


CXH6-101P - full plastic
double - deck all round light

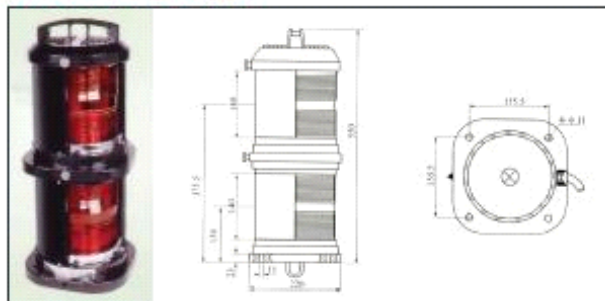


TYPE	NAME	VISIBILITY	LEVEL ARC	LAMP HOLDER	BULB	PROTECTION CLASS	COLOR	WEIGHT
CXH1-101P	Full plastic double-deck starboard light	3n.m	112.5°	P28S	230V 60W 60cd 115V 60W 60cd 24V 40W 60cd	IP56	Green	4.15 kg
CXH2-101P	Full plastic double-deck port light	3n.m	112.5°				Red	4.15 kg
CXH3-101P	Full plastic double-deck masthead light	6n.m	225°				Transparent	4.15 kg
CXH4-101P	Full plastic double-deck sternlight	3n.m	135°				transparent, grey, yellow	4.17 kg
CXH6-101P	Full plastic double-deck all-round light	3n.m	360°				Red Green, Transparent	4.0 kg

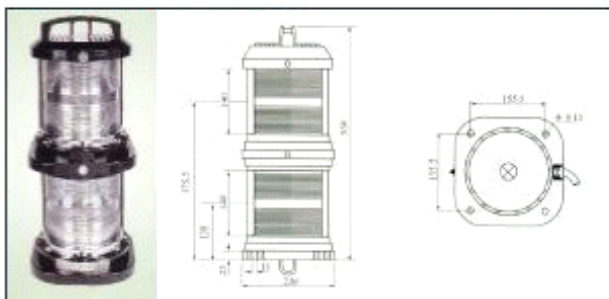
**CXH1-10P - full plastic
double - deck starboard light**



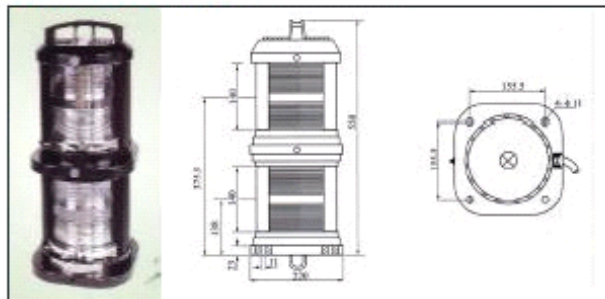
**CXH2-10P - full plastic
double - deck port light**



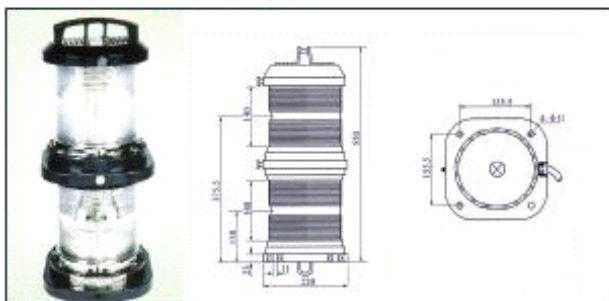
**CXH3-10P - full plastic
double - deck masthead light**



**CXH4-10P - full plastic
double - deck sternlight**



**CXH6-10P - full plastic
double - deck all round light**



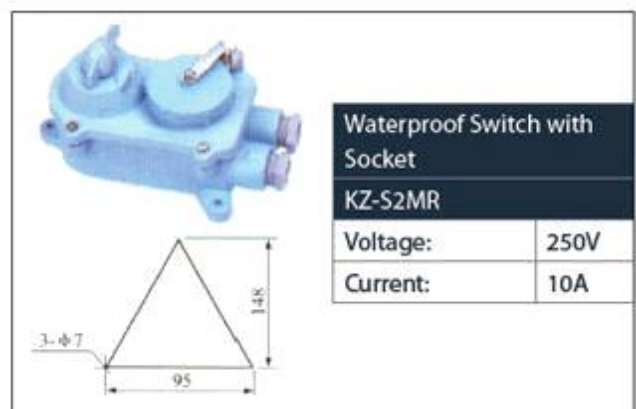
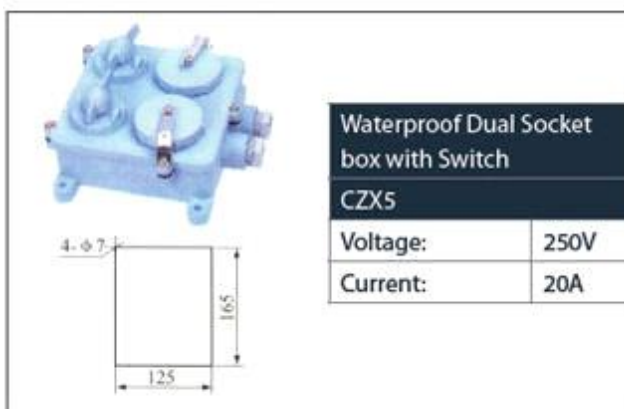
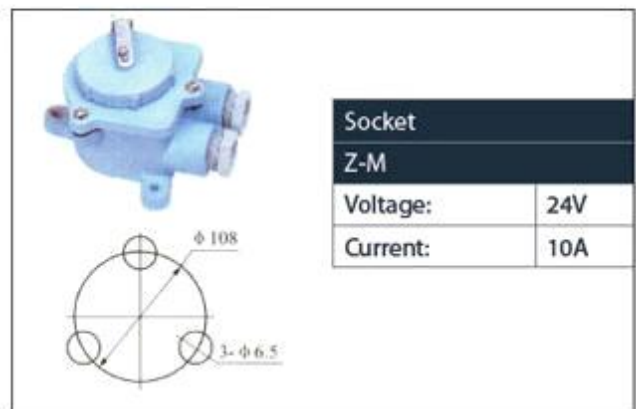
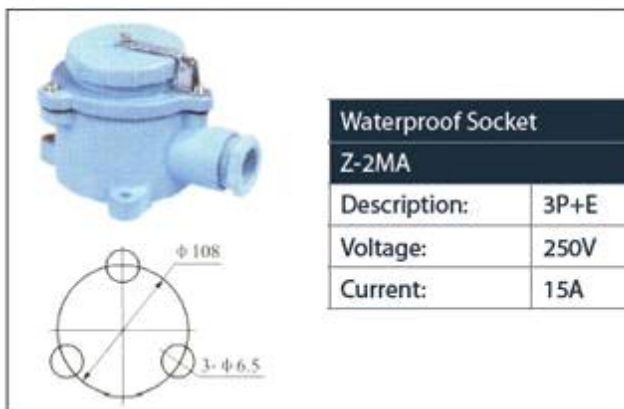
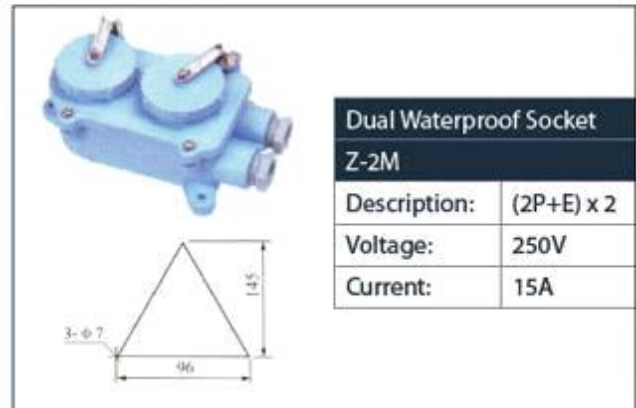
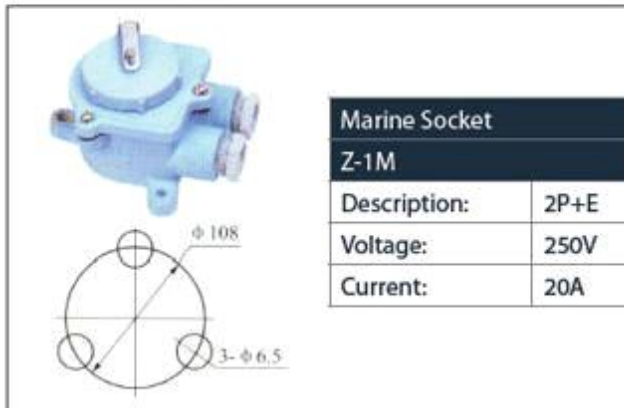
TYPE	NAME	VISIBILITY	LEVEL ARC	LAMP HOLDER	BULB	PROTECTION CLASS	COLOR	WEIGHT
CXH1-10P	Full plastic double-deck starboard light	3n.m	112.5°	B22d	24V 60W 110V 65W 220V 65W	IP56	Green	3.8 kg
CXH2-10P	Full plastic double-deck port light	3n.m	112.5°				Red	3.8 kg
CXH3-10P	Full plastic double-deck masthead light	6n.m	225°				Transparent	3.7 kg
CXH4-10P	Full plastic double-deck sternlight	3n.m	135°				transparent, yellow	3.7 kg
CXH6-10P	Full plastic double-deck all-round light	3n.m	360°				Red Green, Transparent	3.6 kg

marine plug, socket & Switch

Marine Plug



Marine Switch/Socket



SOUNDING METER

Sounding meter atau sounding tape digunakan untuk mengukur kedalaman muatan seperti minyak atau oli didalam tangki.



SOUNDING METER
Ukuran: 10 Mtr, 15 Mtr & 20 Mtr

LADDER, NET

PT. Biru Laut Mandiri dapat membuat berbagai jenis tangga kapal dan jala jala sesuai ukuran dan permintaan customer. Tangga kapal yang biasa kami buat adalah: tangga pandu atau pilot ladder tangga solas, dan tangga monyet. Ukuran tangga kapal mulai dari 3 mtr sampai 15 mtr.

Ladder/Tangga Kapal

Tangga kapal yang biasa kami buat adalah: tangga pandu atau pilot ladder, tangga solas, tangga monyet.



Net/Jala Jala

Jala jala yang biasa dibuat adalah: jala jala gangway, jala jala lambung, jala jala cargo, jala jala semen.

