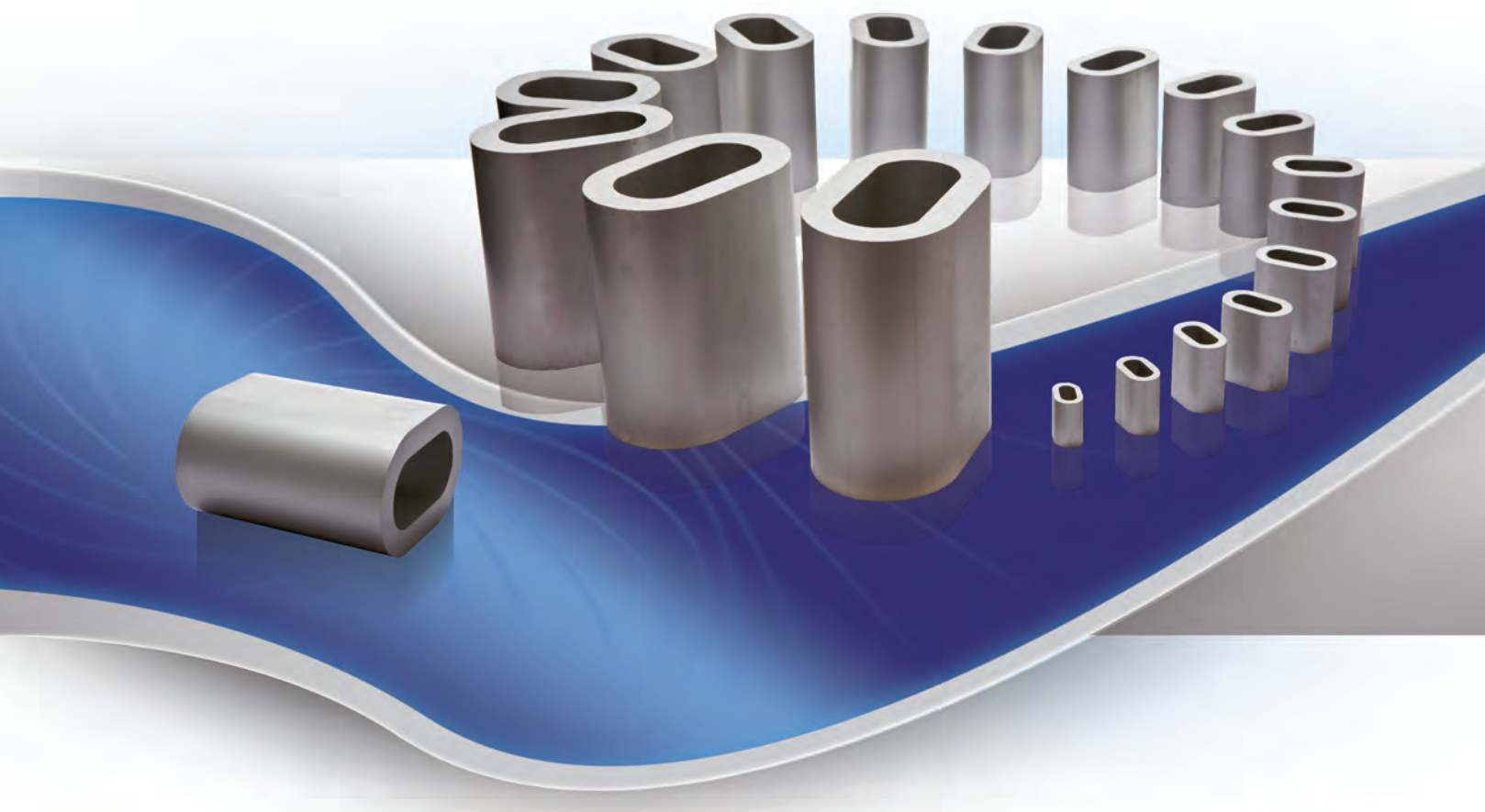
GOODCOMER

Aluminum Ferrules

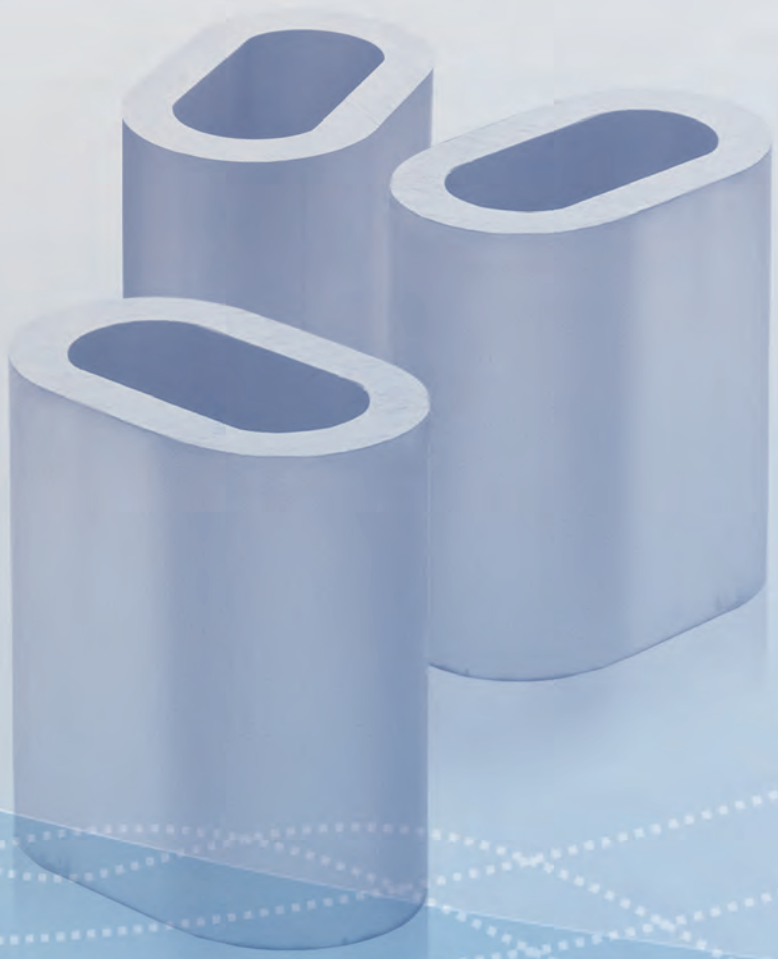


GlobalGROUP ISO 9001

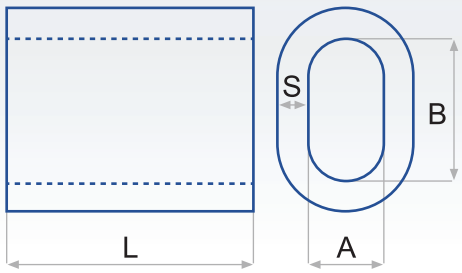
UKAS QUALITY MANAGEMENT 039

Aluminum Ferrules

1. EN13411-3 (DIN 3093) Standard
2. Sizes from 8mm to 110mm
3. Seamless manufacturing process
4. Destruction test certified by DNV.
5. Safety stock to meet customer demand anytime



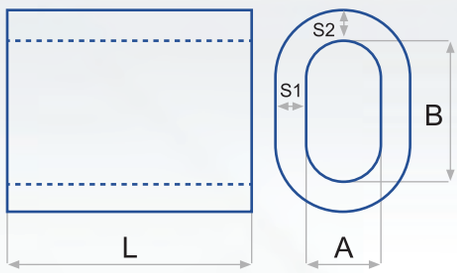
Aluminum Ferrules
EN13411-3(DIN 3093)



★ 可提供EN 13411-3中未提及的尺寸
★ Sizes Not mentioned in the EN13411-3 are also available on request.

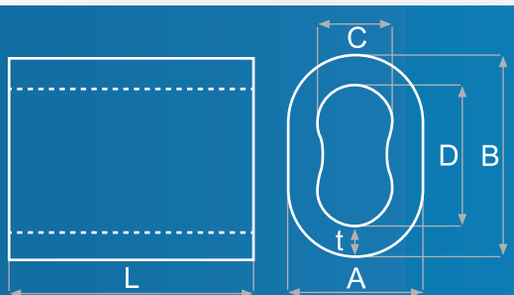
Ferrule Code. 鋁套規格	A(mm)	B(mm)	S(mm)	L(mm)	PCS/CARTON
★ GC 1	1.2	2.4	0.65	5	220,000
★ GC 1.5	1.7	3.4	0.75	6	110,000
★ GC 2	2.2	4.4	0.85	7	70,000
GC 2.5	2.7	5.4	1.05	9	38,000
GC 3	3.3	6.6	1.25	11	20,000
GC 3.5	3.8	7.6	1.5	13	14,000
GC 4	4.4	8.8	1.7	14	9,000
GC 5	5.5	11.0	2.1	18	5,000
GC 6	6.6	13.2	2.5	21	3,000
GC 6.5	7.2	14.4	2.7	23	2,000
GC 7	7.8	15.6	2.9	25	1,700
GC 8	8.8	17.6	3.3	28	1,100
GC 9	9.9	19.8	3.7	32	750
GC 10	10.9	21.8	4.1	35	550
GC 11	12.1	24.2	4.5	39	450
GC 12	13.2	26.4	4.9	42	350
GC 13	14.2	28.4	5.4	46	250
GC 14	15.3	30.6	5.8	49	210
GC 16	17.5	35.0	6.7	56	150
GC 18	19.6	39.2	7.6	63	100
GC 20	21.7	43.4	8.4	70	75
GC 22	24.3	48.6	9.2	77	50
GC 24	26.4	52.8	10.0	84	40
GC 26	28.5	57.0	10.9	91	35
GC 28	31.0	62.0	11.7	98	28
GC 30	33.1	66.2	12.5	105	24
GC 32	35.2	70.4	13.4	112	21
GC 34	37.8	75.6	14.2	119	15
GC 36	39.8	79.6	15.0	126	15
GC 38	41.9	83.8	15.8	133	15
GC 40	44.0	88.0	16.6	140	13
★ GC 42	46.2	92.4	17.5	147	11
GC 44	48.4	96.8	18.3	154	10
★ GC 46	50.6	101.2	19.2	161	8
GC 48	52.8	105.6	20.0	168	6
★ GC 50	55.0	110.0	20.8	175	6
GC 52	57.2	114.4	21.6	182	6
★ GC 54	59.4	118.8	22.5	189	4
GC 56	61.6	123.2	23.3	196	-
★ GC 58	63.8	127.6	24.2	203	-
GC 60	66.0	132.0	25.0	210	-

Aluminum Ferrules
Special specification



Ferrule Code. 鋁套規格	A(mm)	B(mm)	S1(mm)	S2(mm)	L(mm)
★ S62	66.5	133.0	25.0	21.7	217
★ S64	68.5	137.0	27.0	23.0	224
★ S66	70.5	141.0	27.9	23.7	231
★ S70	74.5	149.0	28.8	25.1	245
★ S74	78.5	157.0	30.4	26.5	259
★ S78	83.0	166.0	32.0	28.0	273
★ S84	89.4	178.8	34.5	30.2	294
★ S90	95.8	191.6	36.9	32.3	315
★ S102	108.6	217.2	41.9	36.6	357
★ S110	121.0	243.5	47.5	47.5	470

Aluminum Ferrules
Japanese standard



Ferrule Code. 鋁套規格	A(mm)	B(mm)	C(mm)	D(mm)	t(mm)	L(mm)	PCS/CARTON
6JW	13.5	20.3	7.2	13.7	3.3	24	2,000
8JW	17.4	26.6	9.2	18.4	4.1	32	1,000
9JW	18.9	29.2	10.3	20.6	4.3	36	660
10JW	20.5	32.0	11.5	23.0	4.5	40	480
12JW	24.6	38.4	13.8	27.6	5.4	48	280
14JW	28.1	44.2	16.1	32.2	6.0	56	170
16JW	31.4	49.8	18.4	36.8	6.5	64	135
18JW	34.7	55.4	20.7	41.4	7.0	72	85
20JW	38.0	61.0	23.0	46.0	7.5	80	65
22JW	41.7	67.0	25.3	50.6	8.2	88	57
24JW	45.0	72.6	27.6	55.2	8.7	96	53
26JW	51.9	81.8	29.9	59.8	11.0	104	40
28JW	55.9	88.1	32.2	64.4	11.9	112	36
30JW	59.4	93.9	34.5	69.0	12.5	120	22
32JW	63.1	99.9	36.8	73.6	13.2	128	17
34JW	65.1	104.2	39.1	78.2	13.0	136	15
36JW	68.4	109.8	41.4	82.8	13.5	144	15
38JW	71.6	115.3	43.7	87.3	14.0	152	12
40JW	75.0	121.0	46.0	92.0	14.5	160	12
42JW	78.3	126.6	48.3	96.6	15.0	168	10

Matching wire rope to ferrule

鋁套與鋼索配合表

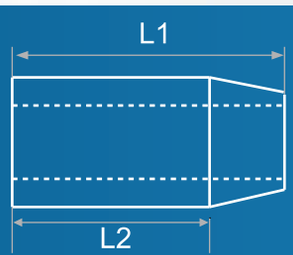
unit單位：mm

Ferrule Code. 鋁套規格	Fiber core 麻蕊 Fill Factor (f=0.4~0.5)		IWRC 鋼蕊 Fill Factor (f=0.5~0.6)		Diameter after swaging 壓合後直徑	Tolerance 公差
	From	To	From	To		
2.5	2.5	2.7	2	2.4	5	+0.2 - 0
3	2.8	3.2	2.5	2.7	6	”
3.5	3.3	3.7	2.8	3.2	7	”
4	3.8	4.3	3.3	3.7	8	”
4.5	4.4	4.8	3.8	4.3	9	”
5	4.9	5.4	4.4	4.8	10	”
6	5.5	6.4	4.9	5.4	12	+0.4 - 0
6.5	5.5	6.9	5.5	6.4	13	”
7	7	7.4	6.5	6.9	14	”
8	7.5	8.4	7	7.4	16	”
9	8.5	9.5	7.5	8.4	18	”
10	9.6	10.5	8.5	9.5	20	+0.5 - 0
11	10.6	11.6	9.6	10.5	22	”
12	11.7	12.6	10.6	11.6	24	”
13	12.7	13.7	11.7	12.6	26	”
14	13.8	14.7	12.7	13.7	28	+0.7 - 0
16	14.8	15.8	13.8	14.7	32	”
18	16.9	18.9	14.8	16.8	36	+0.8 - 0
20	19	21	16.9	18.9	40	”
22	21.1	23.1	19	21	44	”
24	23.2	25.2	21.1	23.1	48	+1.1 - 0
26	25.3	27.3	23.2	24.9	52	”
28	27.4	29.4	25.3	27.3	56	”
30	29.5	31.5	27.4	29.4	60	+1.4 - 0
32	31.6	33.6	29.5	31.5	64	”
34	33.7	35.7	31.6	33.6	68	”
36	35.8	37.8	33.7	35.7	72	+1.6 - 0
38	37.9	39.9	35.8	37.8	76	”
40	40	42	37.9	39.5	80	”
★42	42.1	43.9	39.6	40.5	84	”
44	44	46.2	40.6	42	88	+1.9 - 0
★46	46.3	47.9	42.1	44	92	”
48	48	50.3	44.1	46	96	”
★50	50.4	52	46.1	48	100	”
52	52.1	54.6	48.1	50	104	+2.1 - 0
★54	54.7	56	50.1	52	108	”
56	56.1	58.8	52.1	54	112	+2.3 - 0
★58	58.9	60	54.1	56	116	”
60	60.1	63	56.1	58	120	+2.4 - 0

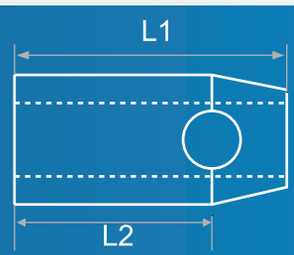
Ferrule Code. 鋁套規格	Fiber core 麻蕊 Fill Factor (f=0.4~0.5)		IWRC 鋼蕊 Fill Factor (f=0.5~0.6)		Diameter after swaging 壓合後直徑	Tolerance 公差
	From	To	From	To		
★ S62	60.6	63	58.1	61.3	120	+2.3 - 0
★ S64	63.1	64.5	61.4	63.3	124	”
★ S66	64.6	66.5	63.4	65.3	128	”
★ S70	68.6	70.5	67.4	69.3	136	+2.5 - 0
★ S74	72.6	74.74	71.4	73.3	144	”
★ S78	76.6	79	75.4	77.3	152	”
★ S84	82	85.5	80	83.5	164	+2.8 - 0
★ S90	88	91.5	85	89.5	176	”
★ S102	98	104	96	101.5	200	+3 - 0

C Type Aluminum Ferrules

EN13411-3 (DIN 3093)



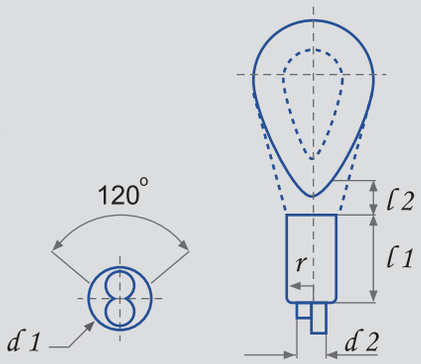
without inspection hole



with inspection hole

Ferrule Code. 鋁套規格	L1(mm)	L2(mm)
8C	37	28
9C	41.5	32
10C	46	35
11C	51.3	39
12C	56.8	42
13C	61.3	46
14C	65.8	49
16C	74.5	56
18C	84	63
20C	93	70
22C	102	77
24C	110.5	84
26C	119.8	91
28C	129.5	98
30C	138	105
32C	148	112
34C	158	119
36C	168	126

Dimensions of pressed ferrules
壓制後的鋁套



單位：mm
(1) 為趨近尺寸 approximate dimensions

Ferrule Code. 鋁套尺寸	External pressed size 外部壓制尺寸			Parallel length 平行長度		
	d1	tolerance	d2 min	l1	l2(1)	R(1)
2.5	5	+0.2 - 0	-	12	3.75	-
3	6		-	14	4.5	-
3.5	7		-	16	5.25	-
4	8		-	18	6	-
4.5	9		8	20	6.75	4.5
5	10		9	23	7.5	5
6	12	+0.4 - 0	11	27	9	6
6.5	13		12	29	9.75	6.5
7	14		13	32	10.5	7
8	16		14.5	36	12	8
9	18		16.5	40	13.5	9
10	20	+0.5 - 0	18	45	15	10
11	22		20	50	16.5	11
12	24		22	54	18	12
13	26		24	59	19.5	13
14	28	+0.7 - 0	25	63	21	14
16	32		29	72	24	16
18	36	+0.9 - 0	32	81	27	18
20	40		36	90	30	20
22	44		39	99	33	22
24	48	+1.1 - 0	43	108	36	24
26	52		46	117	39	26
28	56		50	126	42	28
30	60	+1.4 - 0	53	135	45	30
32	64		56	144	48	32
34	68		59	153	51	34
36	72	+1.6 - 0	63	162	54	36
38	76		66	171	57	38
40	80		69	180	60	40
44	88	+1.9 - 0	75	198	66	44
48	96		81	216	72	48
52	104	+2.1 - 0	87	234	78	52
56	112	+2.3 - 0	93	252	84	56
60	120	+2.4 - 0	99	270	90	60

Certificate No.: 12VW5B3-6

SURVEY REPORT

(Witness of Proof Load Test and Destructive Test)

Client	:	KTL Offshore (Pte) Ltd.
Date of Test	:	16 November 2010
Location of Test	:	71, Tuas Bay Drive, Singapore 637430
DNV Project No.	:	EP035574

EQUIPMENT TESTED

62 mm dia. x 5 m, 6x36 IWRC RHRL galvanised EEIPS steel wire rope,
c/w both ends mechanical spliced soft eye & 64 mm aluminium ferrule.

Distinguishing Marks : KIM CJ767

EXTEND OF SURVEY

Upon request by KTL Offshore (Pte) Ltd, DNV surveyor did attend at the above location to witness the proof load test and destructive test on the above wire rope sling assembly.

The wire rope sling was mounted onto a calibrated hydraulic tensioning machine and was performed as follows:

- The wire rope sling was straight pulled to the proof load of 103.6 metric tons, held for 5 minutes. No creeping or other sign of failure or damage was observed.
- After that, the pull load was increased until failure of the sling assembly occurred. The breaking load reading of 252.5 metric tons was noted and recorded in the KTL's Certificate of Testing and Examination No. KIM CJ767. The sling assembly was found broken at wire rope.

The calibration certificate of the test machine was reviewed and found in order.

CONCLUSION

The proof load test and destructive test on the wire rope sling assembly were carried out and witnessed in accordance with the procedure specified by the client. Test record was duly endorsed, attesting the tests witnessed.

Singapore, 19 November 2010

Raymond Poh
Deputy Head of Department
Facilities and Inspection

Zhang Dong
Surveyor for DNV
Facilities and Inspection

S/O: 416013465
CUSTOMER: GOODCOMER CO.,LTD

KIM TEST CERTIFICATE

Certificate No : KIM CJ767

CERTIFICATE OF TESTING AND EXAMINATION
OF LIFTING APPLIANCES AND LIFTING GEAR

(SLINGS & LIFTING ACCESSORIES)

(1) Particulars

Distinguishing Number or Mark	Description of Gear	Number Tested	Date of Test	Proof Load Applied	Safe Working Load
(a)	(b)	(c)	(d)	(e)	(f)
KIM CJ767	**PROOF LOAD TEST & DESTRUCTION TEST:** DIAMETER 62MM X 5MTRS (6X36) WS+IWRC RHRL PREFORMED GALVD EEIPS STEEL WIRE ROPE C/W BOTH END ALUMINIUM MECHANICAL SPLICED SOFT EYE & 64MM FERRULE **Wire Rope destructed at 252.5 MT** **Proof Load Test Before Destruction Test = PL 103.6 MT** Test Details : - • Destruction test based on straight pull load • Testing witnessed by DNV Surveyor • Mill cert refer to P.O. No: YK 734/03 Reel No: 10 (Young Heung) ----------**Last Entry**----------	1 Length	16th NOV 10	-	-

(2) Name and Address of Maker or Supplier

KTL OFFSHORE (PTE) LTD
71, Tuas Bay Drive,
Singapore 637430
Tel: 65 6863 2288 Fax: 65 6863 0002

(3) Name of person undertaking the test and examination

JEREMY LAM
(PRODUCTION MANAGER)

(4) Documentation Reviewed By :

KELVIN OOI
(CERTIFICATE COORDINATOR)

16/11/10
Zhang Dong
REVIEWED WITNESSED INSPECTED
DET NORSKE VERITAS PTE LTD SINGAPORE

(5) The above equipment has been tested, examined and certified for normal usage by a person who has been instructed, trained and where necessary, supervised in its proper handling.

(6) I certify on behalf of the firm, company, association or person named in (2) and (3) that the items described herein were tested and thereafter thoroughly examined by a competent person and, were found to be free from visible cracks, flaws, deformation or other defects.

Signature: _____ **Date:** 16th NOV 10

THIS DOCUMENT IS SUBJECTED TO THE TERMS AND CONDITIONS OVERLEAF
KTL OFFSHORE IS CERTIFIED TO ISO9001:2008 FOR QUALITY AND CONSISTENCY IN PROCESSES

Why Us

Aluminum ferrules are extruded by Seamless procedure

All of our products are made in Taiwan

ISO 9001:2015 Certificated



大地工業股份有限公司

GOODCOMER CO., LTD.

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FAX：+886-2-2282-6002

WEB: www.goodcomer.com

E-mail：service@goodcomer.com

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2019.04