MIL-C-26482 SERIES CONNECTOR

Product brief introduction

This series connector confirms to GJB101A-1997 standard also qualified to MIL-C -26482.This series connectors are widely used in general duty and enviromental applications,both industrial and military.

Markets that use this family of connectors include:

- Instrumentation
- Monitoring Equipment
- Machine Tool, Factory Automation
- Communications
- Geophysical
- Industrial Controls and Robotics
- Oil and Petrochemical Industries
- Rail/Mass Transit
- Military/Aerospace

Common Features

- All are general duty applications and environmental sealing is achieved with the grommet and clamp design.
- Operating temperature is from -55 ℃ to +125℃; Operating voltage to 1000 VAC(RMS) at sea level.
- Pin and socket contacts are machined from low loss copper alloy and gold plated to elimi--nate contact corrosion and provide an indefinite shelf life.
- Shells are machined from alumium alloy and elecroless nickel plated, can be subjected to a salt foh for 48 hours.
- All have resilient inserts whitch provide high dielectric strenghth and moisture barrier.
- Because of the 3 point bayonet coupling, operation in electricity is not allowed.
- The insulatin resistance is 5,000M·Ω Min (at 25℃).
- Waterproof grad of the connector is IP67.

Dlelectric Withstanding Voltage

Service Rating	Operation Voltage		Test voltage AC(rms),60cps		
	AC	DC	SEA LEVEL	50,000 (FT)	70,000 (FT)
·∞	600	850	1,500	500	375
·±	1,000	1,275	2,300	750	500

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How To Order

SJ 3110 R 22 - 36 P W
MS 3110 R 22 - 36 P W

- PREFIX
- SHELL STYLE
- CLASS
- SHELL SIZE
- CONTACT ARRANGEMENT
- CONTACT TYPE
- ALTERNATE INSERT POSITION

SERIES PREFIX
MS - MIL-C-26482 prefix

SHELL STYLE (cont'd)
MS Designation
3110 - wall mounting receptacle
3111 - cable connecting plug
3112 - box mounting receptacle
3114 - jam nut receptacle
3116 - straight plug
3119 - thru - bulkhead receptacle

CLASS
A - general duty (not MS approved)
B - general duty with strain relief without grommet & ferrules (may be used for potting when strain relief is desired) (not MS approved)

W- 90 degree backshell
E - grommet seal except on 02 and 3112 (MS specification)
F - grommet seal with strain relief (MS specification)
J - water tight gland seal with strain relief for jacketed cable (MS specification)
P - potted (MS specification)
M- Spring wire guard backshell

SHELL SIZE
8, 10, 12, 14, 16, 48, 20, 22, and 24

CONTACT STYLE
P - pin
S - socket

ALTERNATE INSERT POSITION
W, X, Y and Z. (omit for Normal.)

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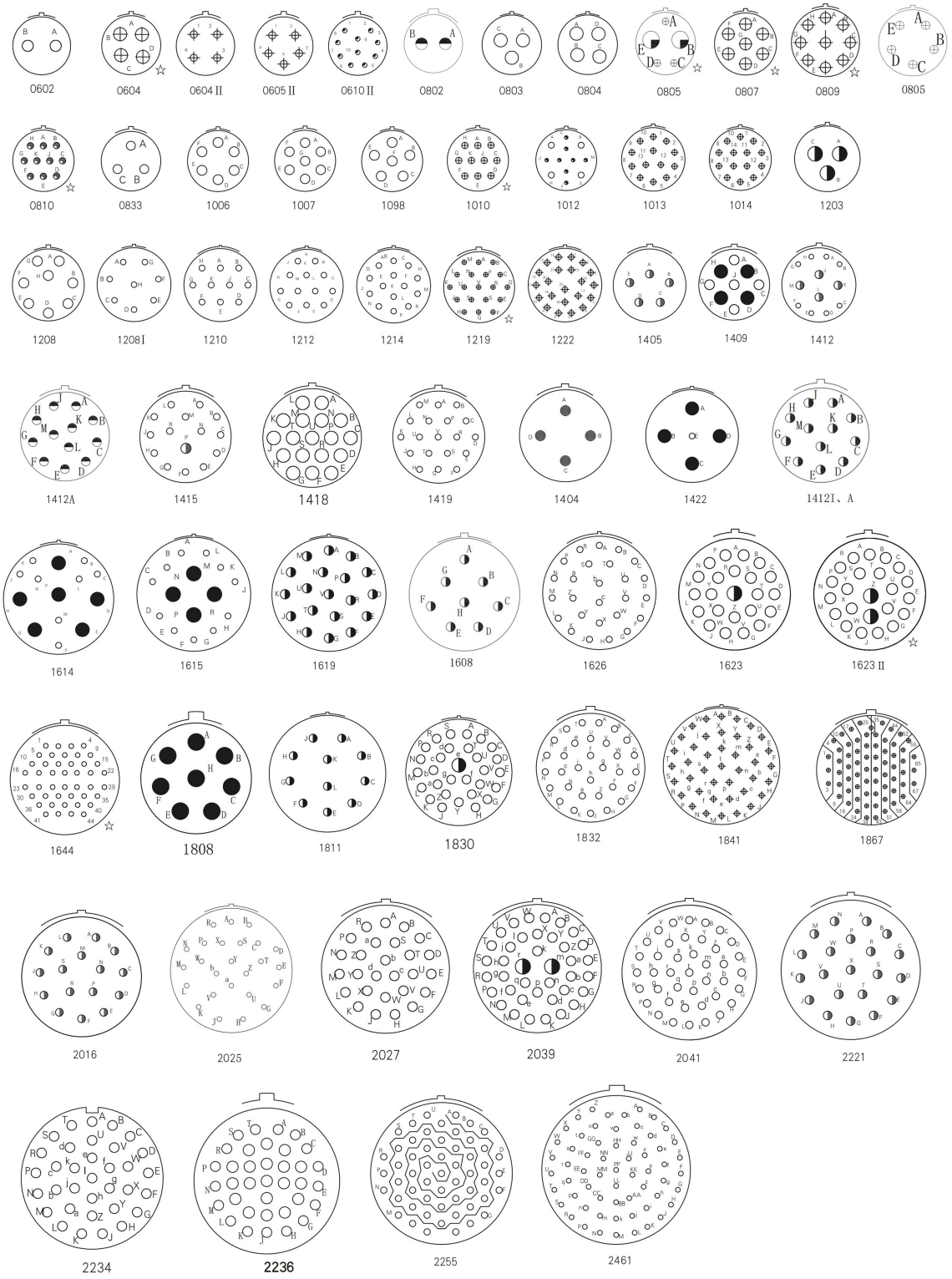
Insulation mounting plate hole arrangement (viewed from the pin side)



Note: 1. Marking of contact diameter ⊖φ0.5 ◒φ0.6 ⊕φ0.8 ○φ1 ◓ 1.5 ◑φ1.59 ◒φ2 ● 2.39

2.Items marked with “ ☆ ” are extended type spectrum.

3.Y50EX?141ΣA contacts can use φ1.5 or φ1.59, selected according to customer requirements.

4.0604 II, 0605 II, and 0610П are interchangeable with Hanglian.

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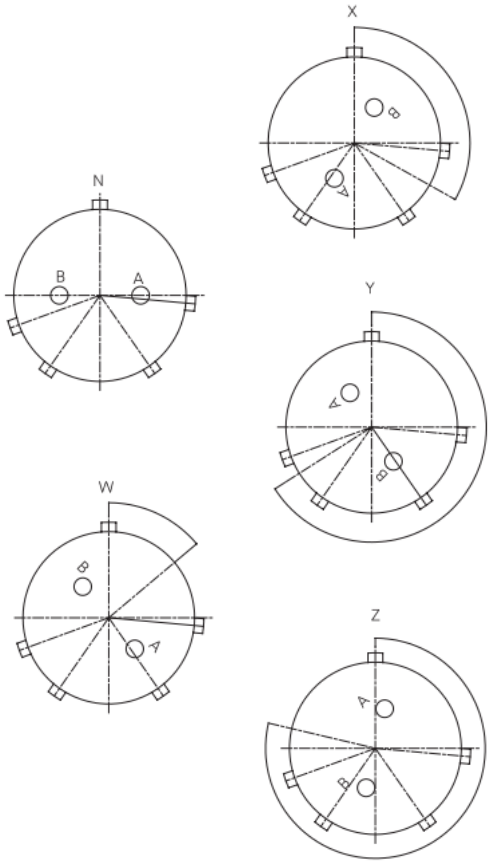
Error prevention

The insulator features key slots at varying angles around its perimeter. These slots can be repositioned by the manufacturer according to user requirements, ensuring that plugs and sockets of identical specifications are not inserted incorrectly. This design guarantees that only plugs and sockets corresponding to the same model, specification, and assembly sequence can be inserted, while those with different assembly sequences cannot be used.

The key's rotation angle is shown in the table. The angular position is illustrated in the figure: (viewed from the pin insertion surface)

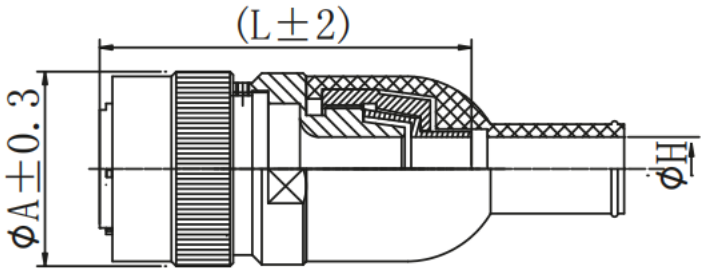
Shell number	insulation installation sequence number	Insulation mounting plate corner position (N=0)			
		W	X	Y	Z
6	4	45			
8	2	58	122		
	3	60	210		
	3A(98)	60	210		
	4	45			
	7	90			
	33	90			
10	6	90			
	98	90	180	240	270
	10	60	155	270	295
12	3			180	
	8	90	112	203	292
	10	60	155	270	295
14	4	45			
	5	40	92	184	273
	12	43	90		
	15	17	110	155	234
	18	15	90	180	270
	19	30	165	315	
16	8	54	152	180	331
	23	158	270		
	26	60		275	338
18	11	62	119	241	340
	32	85	138	222	265
	30	180	193	285	350
20	16	238	318	333	347
	39	63	144	252	333
	41	45	126	225	
	24	70	145	215	290
	27	72	144	216	288
22	21	16	135	175	349
	55	30	142	226	314
	32	72	145	215	288
24	61	90	180	270	324



Operation Method

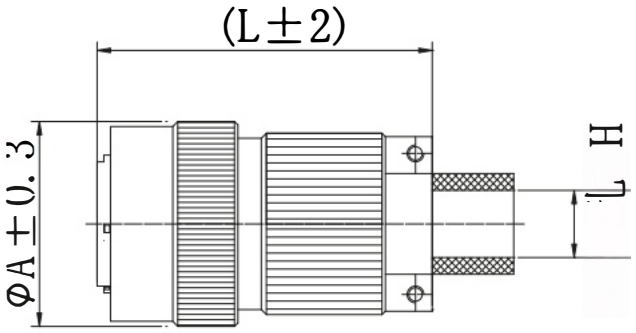
1. When the two corresponding parts of the connector are connected using the internal bayonet, rotate thecoupling nut clockwise. When fully mated, the bayonet will be in the locked position. To separate, rotate thecoupling nut counterclockwise until the two parts disengage.
2. Soldering of the connector must follow the corresponding contact numbering. The soldering time must notexceed 3 seconds, and the soldering iron power must not exceed 45W.(For power series connectors, thesoldering iron power may be appropriately increased based on the diameter of the pin/hole.)3. After soldering a solder-type connector, the cable clamp or cable sheath of the cable hood must be securelytightened.
4. When the two parts of the connector are separated, both parts must be covered with their respective dustcaps (or the plug may be inserted into a dummy receptacle).
5. It is strictly prohibited to mate a pin-equipped plug with a pin-equipped receptacle.6. Personnel installing or using the connector must be familiar with its performance and proper usage. Forfurther information, contact our technical department.
7. Do not apply power to the connector before it is fully locked. Do not separate the connector while it is underload.

3116P Grounding Compression Type Plug Outline and Dimensions



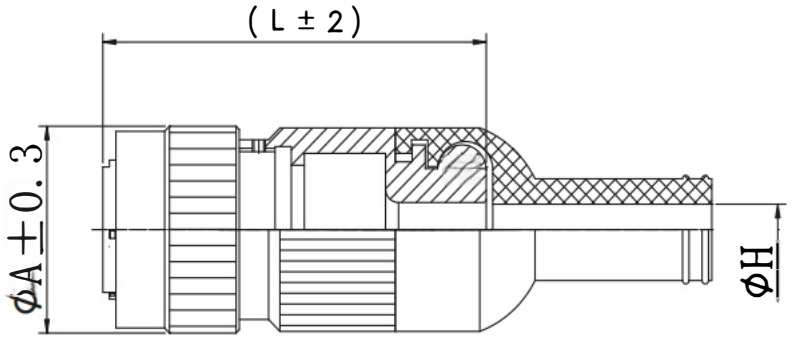
Shell number		06	08	10	12	14	16	18	20	22	24
ΦA		15.5	19	22	25.7	30	32	35	39	42	46
L(Reference)		52.5	56	55	55	57	56–57	56.5	58	58	60.5
ΦH	General	6.5	6	7	7	12.5	14	14	14	14	13
	Others	5、6	7、8	8、9	9、10、11	8、12、14、16	10、11、16、21	11、13、21	16、23	16、23	22、26

3116F Straight Cable Hood Plug Outline and Dimensions



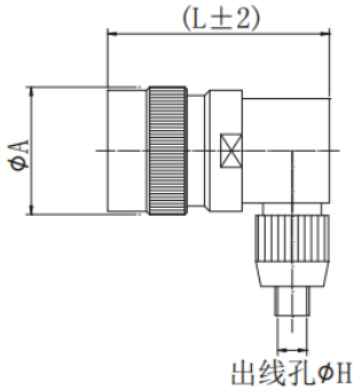
Shell number		06	08	10	12	14	16	18	20	22	24
ΦA		15.5	19	22	25.7	30	32	35	39	42	46
'		34.5	41	42	42	44	45.5	48	52	50	60
ΦH	General	5	5	6	8	9	14	14	18	18	23
	Others	6、7	7、8	8、9、10	9、10、12	8、10、12、14、16	11、16、21	13、21	14、16、23	23	22、26

3116J Sealed Cable Hood Plug Outline and Dimensions



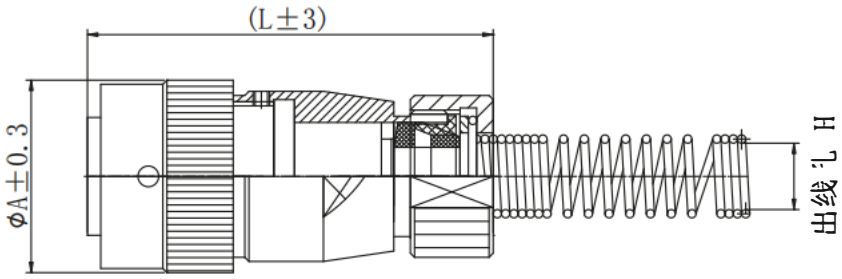
Shell number		06	08	10	12	14	16	18	20	22	24
ΦA		15.5	19	22	25.7	30	32	35	39	42	46
L		46	45	46.5	52	55	54.5	57.5	62	62	60.5
ΦH	General	6	5.5	6.5	8	10	16	11	11	18	13.5
	Others	7、7.5	6.5、7.5	5.5、7.5	5.5、6.7、10	5.5、7	9.2	8.5	7、8.5、13	13.5、16、17	14、16、1718

3116W Elbow Wire-Protected Plug Outline and Dimensions



Shell number		06	08	10	12	14	16	18	20	22	24
ΦA			19	22	25.7	30	32	35	39	42	46
L			45.5	44.5	58	56	56	58	67	66	66
ΦH	General		7	7	11	12	12	17	18	20	20
	Others		6、7、8、9	6、9.12	8、9	8、10、11、14	16、21	12、14	16、21	12、14	22

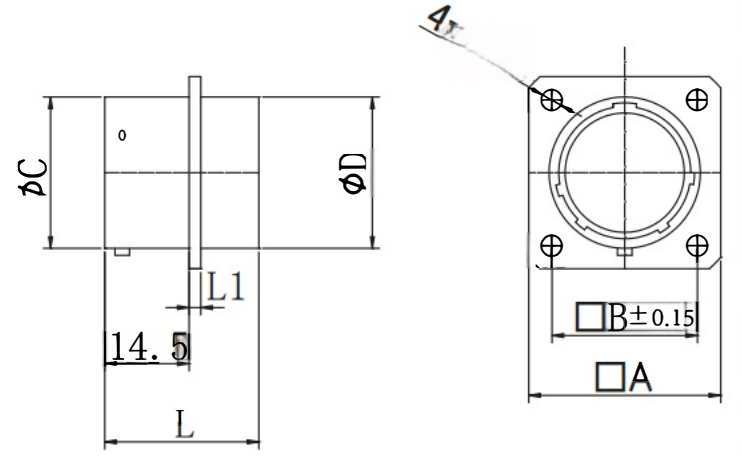
3116M Spring Wire-Protected Plug Outline and Dimensions



Shell number		06	08	10	12	14	16	18	20	22	24
ΦA			19	22	25.7	30	32	35	39	42	46
L			58	62	61	64	61	61	66	67	67
ΦH	General		6	7	7.5	14	14	14	17	17	17
	Others		5. 8	6. 7. 8	7. 8. 9. 10	13	13	13	16	16	16

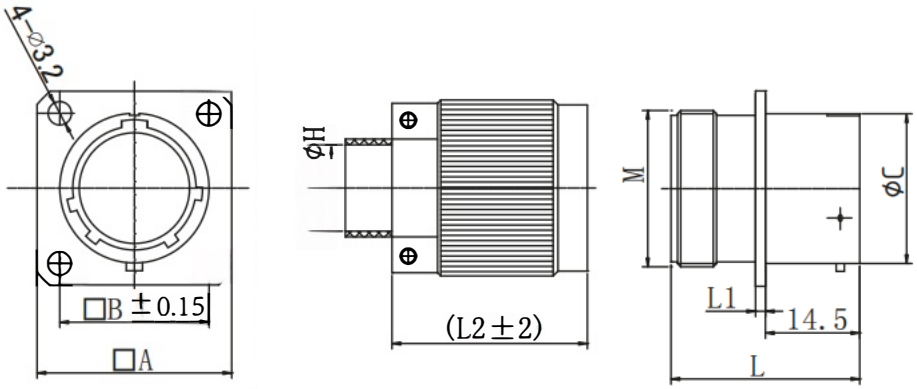
Receptacle Outline and Mounting Dimensions

3112E Square Flange Receptacle Mounting Dimensions



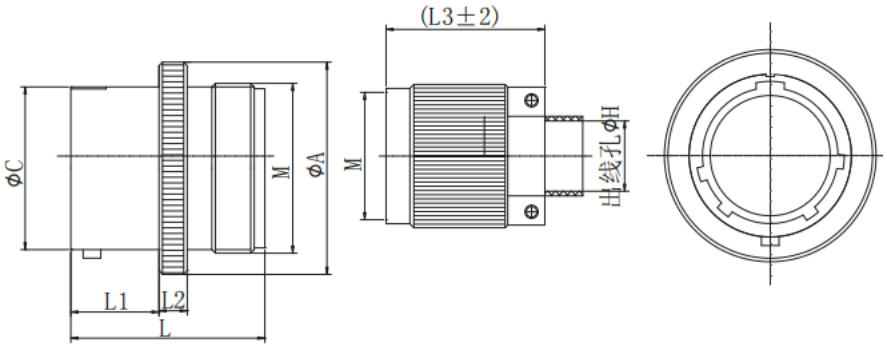
Shell number	06	08	10	12	14	16	18	20	22	24
A	19	21	24	26.5	28.7	31.3	33.3	36.9	40	42.9
B	13	15.09	18.3	20.6	23	24.6	27	29.36	31.8	34.73
ΦC	10.5	12	15	19.07	22.2	25.4	28.6	31.78	34.95	38.1
ΦD	10.5	12	15	19.07	22.3	25.4	28.6	31.78	33.5	37.8
L(cabinet minister)	20	21.5	21.5	21.5	22.5	23	23	27.5	27.5	28
L1(panel)	1.5	2	2	2	2	2	2	2.5	2.5	2.2

3112F Square Flange Receptacle Mounting Dimensions



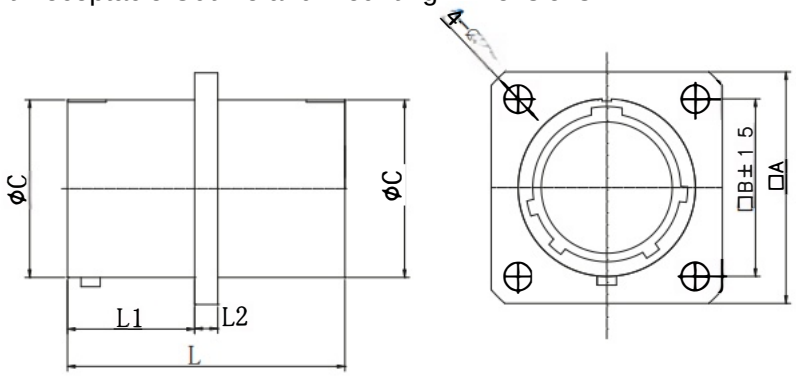
Shell number		06	08	10	12	14	16	18	20	22	24
A		19	21	24	26.5	28.7	31.3	33.3	36.9	40	42.9
B		103	15.09	18.3	20.6	23	24.6	27	29.36	31.8	34.73
ΦC		M10.5	12	15	19.07	22.2	25.4	28.6	31.78	34.95	38.1
M		*0.75	1/2 -200	.625-24	0.72-24	0.8725-20	1-20	1.09-20	1.26×18	1.3125-18	1.4725-18
L		20	21.5	21.5	21.5	22.5	23	23	27.5	27.5	28
L1		1.5	2	2	2	2	2	2	2.5	2.5	2.2
L2		20	22.5	25	26	28.5	28		32	33	40
ΦH	General	5	5	6	8	9	14	14	18	18	23
	Others	6. 7	7. 8	8. 9. 10	9. 10. 12	8. 10. 12. 14. 16	11. 16. 21	13. 21	14. 16. 23	23	22. 26

3111E Circular Receptacle Mounting Dimensions



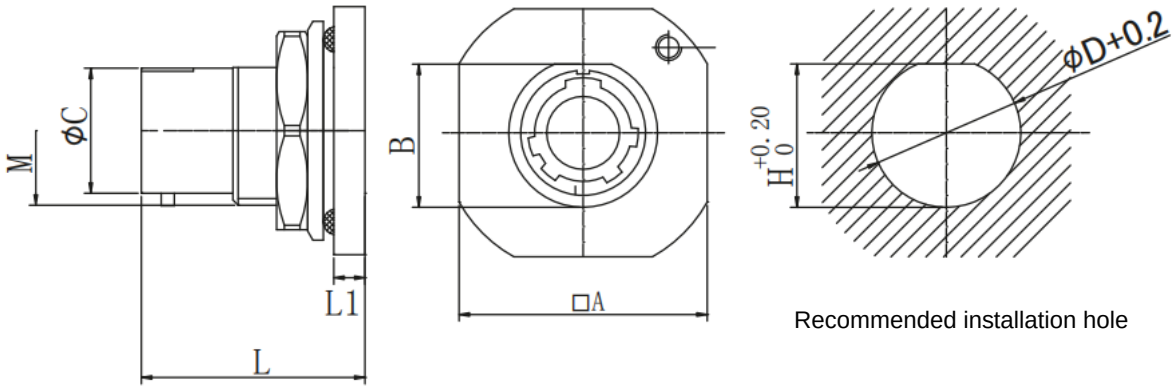
Shell number		06	08	10	12	14	16	18	20	22	24
A		18	20	22	27	30	33.5	36.5	40	43	47
ΦC		10.6	12	15	19.07		25.4	28.6	31.78	34.95	38.1
M		M10*0.75	1/2-20	0.625-24	0.72-24	0.8725-20	1-20	1.09-20	1.26-18	1.3125-18	1.4725-18
ΦH	General	5	5	6	8	9	14	14	18	18	23
	Others		7. 8	8. 9. 10	9. 10. 12	8. 10. 12. 14. 16	11. 16. 21	13. 21	14. 16. 23	23	22. 26
L(total length of seat)		21	21.5	21.5	22.5	21.5	22.5	23	27.5	27.5	27.5
L1posterior length)		11	11	11	11	11	11	12.5	12.5	12.5	12.5
L2(Panel thickness)		3	3.5	3.5	3.5	3.5	3.5	4	4	4	4
L3(tail length)		20	22.5	25	26	28.5	28	28	32	33	40

3119F Bulkhead Mount Receptacle Outline and Mounting Dimensions



Shell number	08	10	12	14	16	18	20	22	24
A	21	24	26.5	28.7	31.3	33.3	36.9	40	42.9
B	15.09	18.3	20.6	23	24.6	27	29.36	31.8	34.73
ΦC	12	15	19.07	22.2	25.4	28.6	31.78	34.95	38.1
L(cabinet minister)	33	33	33	33	33	33	36	36	36
L1(Length of the panel)	15	15	15	15	15	15	16.5	16.5	16.5
L2(Panel thickness)	3	3	3	3	3	3	3	2.5	3

3114E Nut Locking Receptacle Outline and Dimensions



Recommended installation hole

Shell number	06	08	10	12	14	16	18	20	22	24
A	Φ17	23.8	27	31.8	34.9	38.1	41.5	46	49.2	52.5
B	11.2	13.2	16.5	20.9	24.2	27.35	30.3	33.7	36.6	40.5
ΦC	10.5	12	15	19.07	22.2	25.4	28.6	31.78	34.95	38.1
M	12×1	9/16–20	11/16–24	7/8–20	1–20	$1^{-1,9}$–20	$1^{1/4}$–18	$1^{3/8}$–18	$1^{1/2}$–18	$1^{5/8}$–18
L(cabinet minister)	17	21.5	21	21	21	21	21	26.5	26.5	26.5
L1(Panel thickness)	2	3	3	3.2	3	3.2	3.2	3.5	4	4
ΦD	12.5	14.6	17.75	22.5	25.7	28.7	32.05	35.3	38.4	41.55
H	11.8	13.5	16.8	21.2	24.5	27.6	30.6	34	37.1	40.4