

AVIA
Electronics

PRODUCT INTRODUCTION

INNOVATE / COOPERATION / WIN-WIN

Table of Contents

62GB series circular electrical connector 3
GJB598 I series (MIL-C-26482 I series) electrical connector 6
GJB598 II series (MIL-C-26482 II series) electrical connector 23
MIL-DTL-38999 I Series Connector 35
MIL-DTL-38999 Ⅱ Series Connector 51
Standard tail accessories (for GJB599 Series I and Series II electrical connectors) 65
MIL-DTL-38999 III Series Connector 79
Standard tail accessories (for GJB599 Series III electrical connectors) 93
Y11 series circular electrical connector 107
Y50X series circular electrical connector 116
Y50DX series circular electrical connector 123
Y50EX series circular electrical connector 126
J29 series rectangle electrical connector 135
J30 series rectangle electrical connector 153
J30J series rectangle electrical connector 167
J14F series rectangle electrical connector 191
J14A series rectangle electrical connector 193
S6 （ARINC600） series electrical connector 198

62GB series circular electrical connector



This miniature bayonet lock connector series offers designers important features not found in any other range of connectors.

62GB Series connectors - compliant to the United States Military Specification MIL-C-26482E on certificate No.1713. They are the first and only British connectors to have achieved this.

62GB Series connectors have been well established with Government authorities on an international scale and users can be found in Sweden,Denmark,Norway,Finland,Germany,Spain,Holland,India,Canada and Italy,

Derating

- Connectors must be derated under the following operating conditions:
- At elevated ambient temperatures,the current ratings are reduced so that total maximum hot spot temperature of 125℃ is not exceeded,
- At high altitudes,revised voltage ratings become effective.
- When connectors to different specifications are intermated,the combination must not be operated under conditions more severe than the less stringent clause of either specification,

Performance specification

- **Engaging and sepaeating force ,connector :**
  Engagement max : 0,90Nm (8.0 lbf.in.) to 4,97Nm (44 lbf.in.) according to shell size.
  Separation min : 0,22Nm (2.0 lbf.in,) to 1,58 Nm (14.0 lbf.in.) according to shell size.
- **Contact Holding Force :** 0,21 N (0.047 lbf) min.size 20
  0,56 N (0.126 lbf) min.size 16
- **Sealing (air pressure) :** Max leakage 28,53 uNm/s(1 cm^3/h),1 bar (14.5 p.s.i.) differential.
- **Sealing Hermetic :** Hermetic receptacles have a max leak of 0.1 micron cubic foot per hour (1x10-6Cm^3/s)
- **Contact Resistance :** 5 milliohms max.
- **Housing (Shell) Continuity :** 200 milliohms max. 5 milliohms max.
  grounding spring styles. Plating dependant.
- **Insulation Resistance :** 5,000 Megaohms at 500 - 50 V d.c.
- **Voltage Proof :** Duration 1 minute
- **Soldering :** As BS 9520: 1983, Clause 1.2.6.7,Method 2. Bit temperature of +350°C
- **Bumping :** As BS 9520: 1983, Clause 1.2.6.2. 4,000-10 bumps/390m/ s^2 (40 gn).
- **Sine Vibration :** As BS 9520: 1983, Clause 1.2.6.3. Procedure A. 10 Hz to5000 Hz, 0.75 mm / 10 gn.
- **Shock :** As BS 9520: 1983, Clause 1.2.6.4. 981m/s^2 (100 g n).
- **Acceleration (Steady State) :** As BS 9520: 1983, Clause 1.2.6.5. 490m/s^2(50gn).
- **Rapid Change of Temperature :** As BS 9520: 1983, Clause 1.2.6.8. -55°C to +125°C one hour at each temperature = 1 cycle. 5 cycles to be completed
- **Climatic Sequence :** As BS 9520: 1983, Clause 1.2.6.12. Severity 55/125/56.
- **Flammability :** As BS 9520: 1983, Clause 1.2.6.9. Direct flame applied, duration 1 minute.

- **Damp Heat (Steady State) :** As BS 9520: 1983, Cause 1.2.6.15. Severity 56 days.
- **Immersion (at low air pressure) :** 3 cycles at 30 mins each cycle, total immersion in water at pressure 44 m bar.
- **Mechanical Endurance :** 500 operations minimum
- **High Temperature Endurance :** Long term: 1,000 hrs. at 850 C ambient carrying the specified current. Short term: 250 hrs at 1250 C, no current.
- **Mould Growth :** As BS 9520: 1983, Clause 1.2.6.15. 28 days duration.
- **Salt Mist (plating dependant) :** As BS 9520: 1983, Clause 1.2.6.17.Severity 1. Four spray periods of 2 hours with a humidity storage period of seven days after each
- **Dust :** As BS 9520: 1983, Clause 1.2.6.18 Exposure 30 minutes.
- **Robustness of Terminations :** 44,5 N (101bf) size 16 22,2 N (5 lbf) size 20
- **Contact Retention (in insert) :** 67,0 N (15 lbf) min. size 20 112,0 N (25 lbf) min. size 16 and above
- **Insert Retention (in shell) :** 517 KN1m² (751bf/in²) min.
- **Test Prod Damage :** Moment: 0,056 Nm (0.5 Ibf in) size 200,225 Nm (2 Ibf in) size 16
- **Impact :** Five impacts, drop height 1 m (3ft.3 in.).
- **Fluid Resistance :** Immersion in 4 solvents and 9 fluids including aircraft fuels, lubricating oils and hydraulic fluids.
- **Compass Safe Distance :** As BS 9520: 1983, Clause 1.2.5.12. 127 mm (5.0 in) min.

Part number

62GB 1 4 E 18 11 P B (004)

Basic designation *consult factory for availability

62 ZN - Zinc Nickel finish 62 GB - Aluminium shell

62 GB SS - Stainless steel shell* 62 GB CU - Brass shell*

62 GB - XXH - Hermetic mild steel shell

Specification key

1 - Styles originally specified in MIL-C-26482

5 - Styles exclusive to BS9522 F0017

Shell style 0 - Receptacle wall mounting

1 - Receptacle cable mounting

2 - Receptacle box mounting

3 - Receptacle , solder flange mounting

4 - Receptacle , internally threaded with cable accessories as illustrated, for single hole mounting

Environmental code

A - Plain shell , exposed solder buckets. No grommet.

E - Insert seal and grommet seal with grommet nut(excluding 12E which has plain shell and no grommet or nut)

F - AS (E) but grommet nut has integral strain relief clamp

H - Hermetic seal no cable accessories

J - As (E) but with resilient gland seal and nut for unscreened jacketed cable . No grommet supplied. See pp.26-27 for accessory to accept screened jacketed cable.

P - Potting construction complete with potting mould

T - Exposed solder buckets.Threaded shell for cable accessories.

Shell size (in sixteenths of an inch) 8,10,12,14,16,18,20,22,24

Number of contacts(*consult factory for availability)

2,3,4,5,6,7,8,10,11,12,16,19,21,23,26,32,41,55,61

Contact style P- Pins S - Sockets For hermetic connectors.

P3 denotes pin contacts with solder bucket terminations. (Standard range).

P2 denotes pin contacts with flattened and pierced terminations.(Special order).

Orientation (Omit if normal orientation)

Keys/Key ways: A', B, C, D',E. F, (see p. 31)

Inserts: W.X,Y,Z.(see p56/57)*Inactive for new designs

Deviations

(044) Rough grip heavy duty coupling ring. (046) Box mounting plug.

(214)Fitted with extension back shell and strain relief clamp without grommet on F types only

(218)Lever coupling ring (219)Contacts for flexible punted wrung (57A and 12E only)

(639) Bright cadmium plated shells

(345) Contacts for flexible punted wiring 12H,13H 17H only

(276) Hermetics with gold plated contacts.

(608) Black anodise.

(416) Electroless nickel

(714) Cadmium plate olive drab

GJB598 I series (MIL-C-26482 I series) electrical connector

Product introduction

- Bayonet fast connection
- Contact end form is mostly welding
- Small size, high density, good environmental resistance
- Widely used in all kinds of military and civilian equipment

Application: The product is used for circuit signal connection

Environment: The product is used in a variety of military and civilian environment, anti-moisture, anti-salt spray, anti-mold, anti-rain, anti-dust and other environments

Technical features

- **Mechanical**

  Material:

  Shell: Aluminum alloy, stainless steel, titanium alloy

  Insulator: thermoplastic

  Grommet and sealing ring: silicone rubber

  Coating:

  Unmarked: cadmium plated olive brown, conductive shell

  L: electroless nickel plating, conductive shell

  A: black anodized, non conductive shell

  B: Olive drab cadmium, conductive shell

  S: stainless steel passivation, conductive shell

  BW class: cadmium plated brown green, conductive shell

  Contact : copper alloy surface gold-plated

  Mechanical life: ≥500 mating / unmating operations

  Impact: Acceleration 490m/s²

  Random vibration: frequency 10 ~ 2000Hz, acceleration 147m/s²

- **Electrical**

  Voltage resistance: V

Work levels	Operating voltage		Breakdown voltage	
	I	II	I	II
Sea level	600	1000	1500	2300
21336m	300	450	375	500

Note: Different contact arrangements have different working levels, see the upper right corner of the contact arrangement mark.

Contact resistance and rated current

Contact	Working diameter	Contact resistance	Rated current A
20#	Φ1.00	≤5	7.
16#	Φ1.60	≤2.5	13
12#	Φ2.40	≤1.5	23

Insulation resistance: ≥5000MΩ at 25˚C, ≥3MΩ at 125˚C

- **Environmental**

Temperature range: 55 ˚C ~ +125 ˚C

Relative humidity: 95±4% at 40 ˚C

Salt spray resistance:

Cadmium plating: 500h

nickel plating: 48h/96h

Sealability:

Grommet Sealing : pressure difference 2×10^{5}Pa, leakage rate ≤ 4.6×10^{2}Pa·cm³/s

Sintering seal: pressure difference 1×10^{5}Pa, leakage rate less than 0.1Pa·cm³/s

How to Build Your Connector Part Number

JY 3110 E 18- 35 P N L

Connector series

Type of connector

3110 -Wall mounting receptacle (E, F, P, J, R)

3111 - Cable connecting receptacle (E, F, P, J, R)

3112 - Box mounting receptacle (E, B)

3114 - Jam nut receptacle (E, F, P, J, R)

Type

E – Grommet Sealing, conductive shell

F – Grommet Sealing, with cable clamp,conductive shell

P – Potted type conductive shell

J – Clamp assembly for moisture proofing multi-jacketed cables, conductive shell

B – PCB type

R – No tail accessories

Shell size A-J

08-10-12-14-16-18-20-22-24

Shell Size & Insert Arrangement

See Insert Arrangement Selection table

Contact Style

P = Pin contacts

S = Socket contacts

Keying

N、W、X、Y、Z

Material & Finish

Unmarked: cadmium plated olive brown

L: electroless nickel plating

A: Non-conductive black anodized

B: Olive drab cadmium

S: stainless steel passivation

BW class: cadmium plated brown green

Note:

1. The national military standard GJB598 and the US military standard MIL-C-26482 and the domestic "YB" series of product model naming, in addition to the main name code is different, the rest are identical.

The main name code of GJB598 is "JY", the main name code of MIL-C-26482 is "MS", and the main name code of domestic "YB" series is "YB", and the three can be interchangeable.

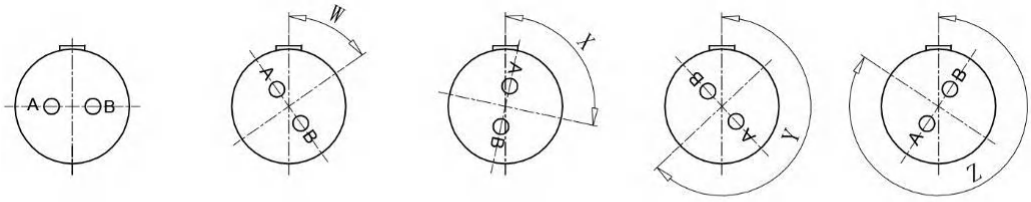
2. 3110 3111 3112 3114 3116 The contacts used are welded contacts. 3210 3211 3212 3214 3216 All contacts used are crimp contacts

Example

JY3110E18-35PNL : JY Series 3110 Wall mounting receptacle, grommet seal, conductive

housing, 18# shell, 35 # contact, pin contact, N Key position,the shell coating is nickel plating.

Key position(the insulator rotates in the shell)



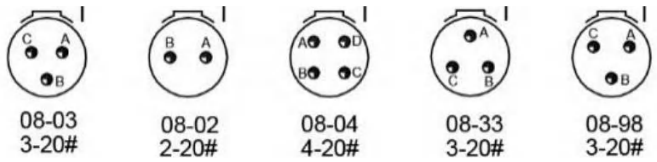
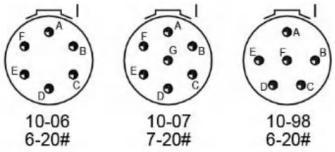
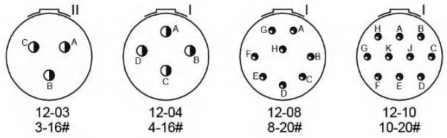
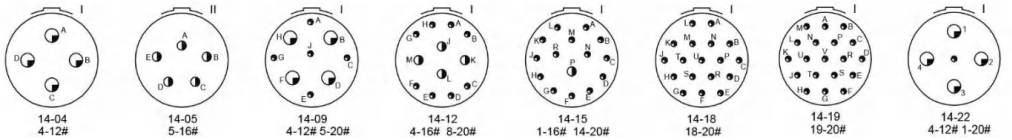
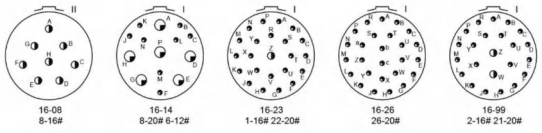
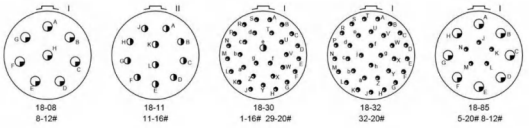
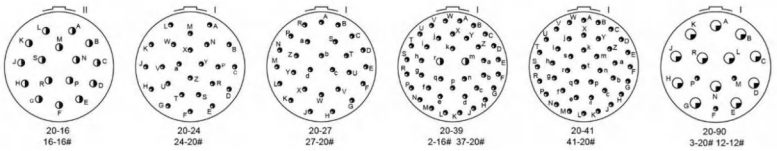
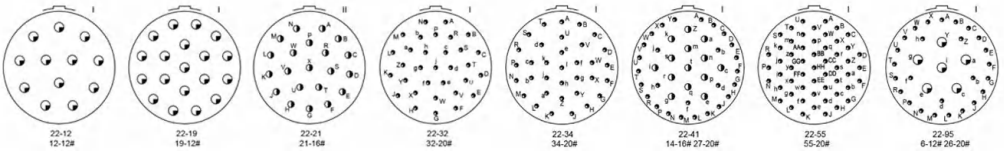
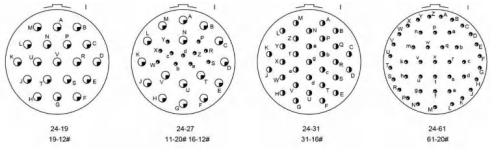
N键位　W键位　X键位　Y键位　Z键位

键位角度：从插针的正面方向看，旋转角度如上图所示。

壳体号	排列代号	角度				
		N	W	X	Y	Z
08	08-2	0	58	122	-	-
	08-3	0	60	210	-	-
	08-4	0	45	-	-	-
	08-33	0	90	-	-	-
	08-98	0	-	-	-	-
10	10-6	0	90	-	-	-
	10-7	0	-	-	-	-
	10-98	0	90	180	240	270
12	12-3	0	-	-	180	-
	12-4	0	45	-	-	-
	12-8	0	90	112	203	292
	12-10	0	60	155	270	295
14	14-4	0	45	-	-	-
	14-5	0	40	92	184	273
	14-9	0	15	90	180	240
	14-12	0	43	90	-	-
	14-15	0	17	110	155	234
	14-18	0	15	90	180	270
	14-19	0	30	165	315	-
	14-22	0	45	-	-	-
16	16-8	0	54	152	180	331
	16-14	0	25	78	180	240
	16-23	0	158	270	-	-
	16-26	0	60	-	275	338
	16-99	0	66	156	223	340

壳体号	排列代号	角度				
		N	W	X	Y	Z
18	18-8	0	180	-	-	-
	18-11	0	62	119	241	340
	18-30	0	180	193	285	350
	18-32	0	85	138	222	265
	18-85	0	45	90	180	240
20	20-16	0	238	318	333	347
	20-24	0	70	145	215	290
	20-27	0	72	144	216	288
	20-39	0	63	144	252	333
	20-41	0	45	126	225	-
	20-90	0	18	60	240	270
22	22-12	0	-	-	-	-
	22-19	0	15	90	225	308
	22-21	0	16	135	175	349
	22-32	0	72	145	215	288
	22-34	0	62	142	218	298
	22-41	0	39	135	264	-
	22-55	0	30	142	226	314
	22-95	0	26	180	266	-
24	24-19	0	30	165	315	-
	24-27	0	45	110	140	225
	24-31	0	90	225	255	-
	24-61	0	90	180	270	324

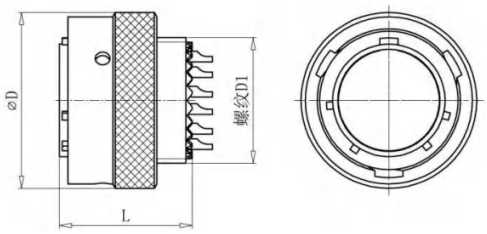
Contact arrangement (pin insulator insertion surface view)

08	
10	
12	
14	
16	
18	
20	
22	
24	



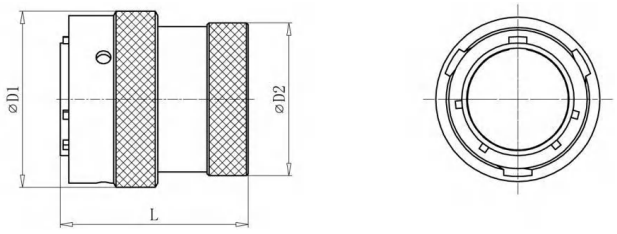
Overall dimension

JY3116R [Straight plug R]



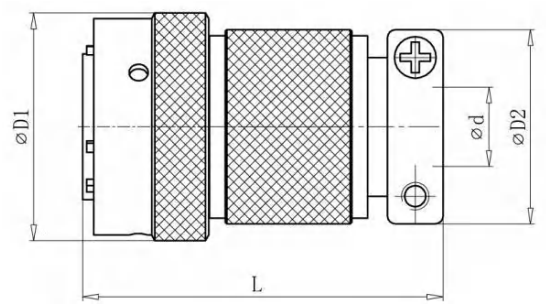
Shell number	L	D	Screw thread D1 UNEF-2A
08	21.7	18.8	0.4375-28
10	21.7	21.8	0.5625-24
12	21.7	24.8	0.6875-24
14	21.7	28.7	0.8125-20
16	21.7	31.7	0.9375-20
18	21.7	35.6	1.0625-18
20	23.3	38.5	1.1875-18
22	23.3	41.7	1.3125-18
24	23.3	44.7	1.4375-18

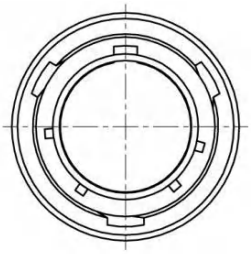
JY3116E [Straight plug E]



Shell number	L	D1	D2
08	30.7	18.8	15.0
10	30.7	21.8	18.0
12	30.7	24.8	21.7
14	30.7	28.7	24.9
16	30.7	31.7	28.2
18	30.7	35.6	31.2
20	32.3	38.5	34.6
22	32.3	41.7	37.6
24	32.3	44.7	40.9

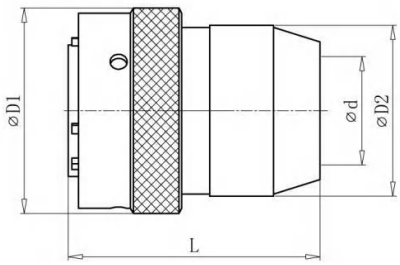
JY3116F [Straight plug F]

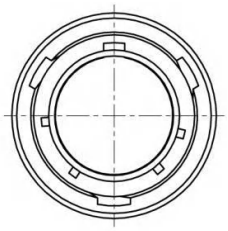




Shell number	L	D1	D2	D max
08	45.5	18.8	20.0	5.5
10	45.5	21.8	22.0	8.15
12	45.5	24.8	24.5	10.0
14	47.0	28.7	26.0	10.0
16	47.0	31.7	30.5	13.0
18	47.0	35.6	35.0	16.0
20	48.0	38.5	35.2	16.0
22	48.0	41.7	41.0	19.3
24	48.0	44.7	44.0	20.6

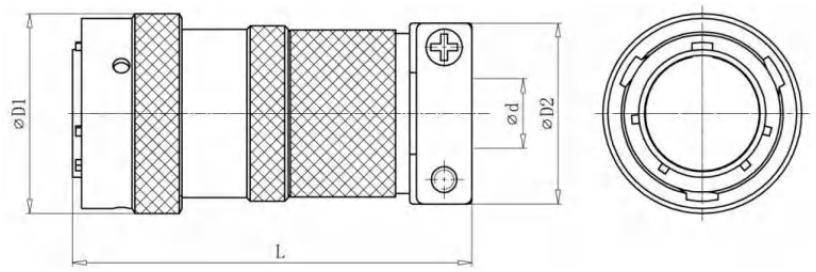
JY3116P [Straight plug P]





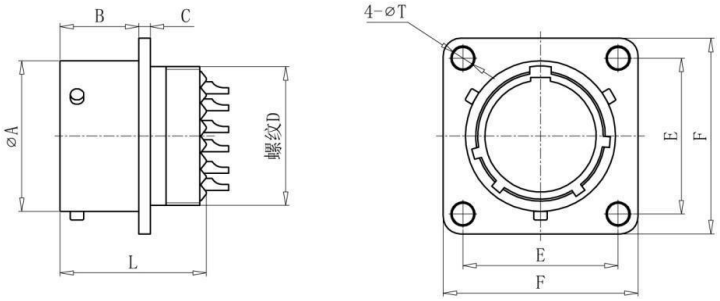
Shell number	L max	D1	D2	D max
08	36.2	18.8	15.3	10.46
10	36.2	21.8	17.7	13.55
12	36.2	24.8	21.7	13.96
14	36.2	28.7	23.9	17.42
16	36.2	31.7	27.0	20.56
18	37.7	35.6	30.5	23.66
20	42.4	38.5	33.6	23.92
22	42.4	41.7	37.1	25.52
24	42.8	44.7	40.0	32.00

JY3116J [Straight plug J]



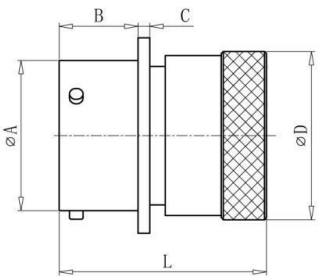
Shell number	L max	D1	D2	d
08	57.6	18.8	15.3	10.46
10	57.6	21.8	17.7	13.55
12	61.2	24.8	21.7	13.96
14	66.0	28.7	23.9	17.42
16	74.7	31.7	27.0	20.56
18	80.5	35.6	30.5	23.66
20	42.4	38.5	33.6	23.92
22	42.4	41.7	37.1	25.52
24	42.8	44.7	44.7	32.00

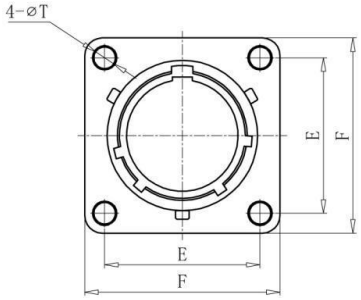
JY3110R [Wall mounting receptacle R]



Shell no	L	A	B	C	E	F max	T	Screw thread D2 UNEF-2A
08	12.00	34.95	31.75	11.1	27.9	22.46	21.08	0.4375-28
10	15.00	38.10	34.95	11.1	30.5	25.58	24.26	0.5625-24
12	19.05	41.28	38.10	11.1	33.6	28.80	27.53	0.6875-24
14	22.23	44.45	41.28	11.1	36.8	32.01	30.73	0.8125-20
16	25.40	49.23	45.24	11.1	40.0	35.15	33.86	0.9375-20
18	28.58	51.21	48.00	11.1	43.2	38.28	37.06	1.0625-18
20	31.75	54.38	51.21	11.8	46.3	41.50	40.03	1.1875-18
22	34.93	57.53	54.36	11.8	51.0	44.68	43.21	1.3125-18
24	38.10	60.71	57.53	11.8	54.4	47.85	46.38	1.4375-18

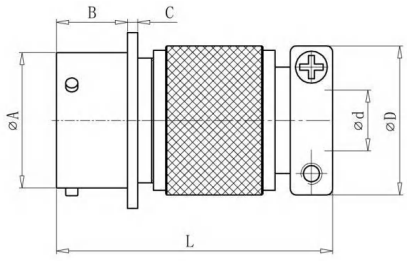
JY3110E [Wall mounting receptacle E]

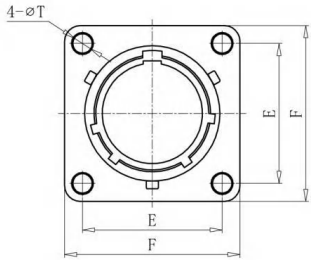




Shell no	L	A	B	C	D	E	F max	T
08	30.7	12.04	11.7	1.7	15.0	15.09	20.99	3.2
10	30.7	15.00	11.7	1.7	18.0	18.26	24.19	3.2
12	30.7	19.07	11.7	1.7	21.7	20.62	26.54	3.2
14	30.7	22.25	11.7	1.7	24.9	23.0	28.89	3.2
16	30.7	25.43	11.7	1.7	28.2	24.61	31.29	3.2
18	30.7	28.60	11.7	1.7	31.2	26.97	33.69	3.2
20	32.6	31.78	14.3	2.2	34.6	29.36	36.89	3.2
22	32.6	34.95	14.3	2.2	37.6	31.75	39.99	3.2
24	32.6	38.13	15.0	2.2	40.9	34.92	43.15	3.8

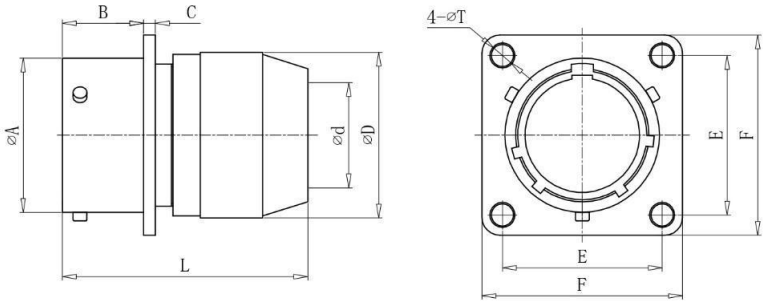
JY3110F [Wall mounting receptacle F]





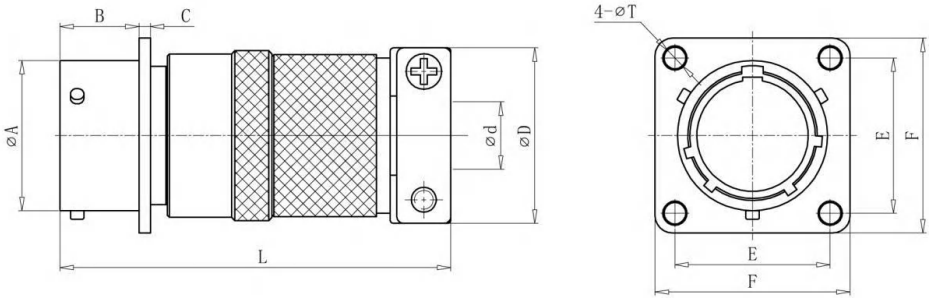
Shell no	L	A	B	C	D	D max	E	F max	T
08	45.5	12.04	11.7	1.7	18.2	5.5	15.09	20.99	3.2
10	45.5	15.00	11.7	1.7	20.2	8.15	18.26	24.19	3.2
12	45.5	19.07	11.7	1.7	23.2	10.0	20.62	26.54	3.2
14	47.0	22.25	11.7	1.7	26.2	10.0	23.0	28.89	3.2
16	47.0	25.43	11.7	1.7	31.2	13.0	24.61	31.29	3.2
18	47.0	28.60	11.7	1.7	34.2	16.0	26.97	33.69	3.2
20	49.9	31.78	14.3	2.2	34.2	16.0	29.36	36.89	3.2
22	49.9	34.95	14.3	2.2	38.2	19.3	31.75	39.99	3.2
24	49.9	38.13	15.0	2.2	41.2	20.6	34.92	43.15	3.8

JY3110P [Wall mounting receptacle P]



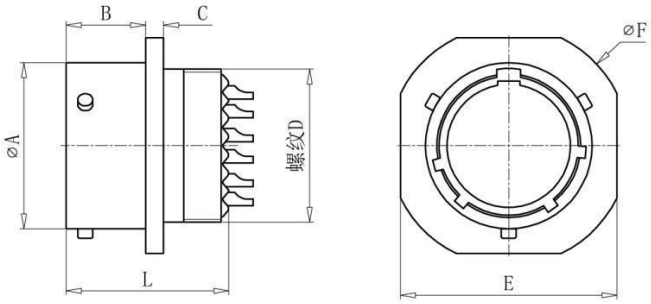
Shell no	L	A	B	C	D	d max	E	F max	T
08	36.2	12.04	11.7	1.7	15.3	10.46	15.09	20.99	3.2
10	36.2	15.00	11.7	1.7	17.7	13.55	18.26	24.19	3.2
12	36.2	19.07	11.7	1.7	21.7	13.96	20.62	26.54	3.2
14	36.2	22.25	11.7	1.7	23.9	17.42	23.0	28.89	3.2
16	36.2	25.43	11.7	1.7	27.0	20.56	24.61	31.29	3.2
18	37.7	28.60	11.7	1.7	30.5	23.66	26.97	33.69	3.2
20	42.7	31.78	14.3	2.2	33.6	23.92	29.36	36.89	3.2
22	42.7	34.95	14.3	2.2	37.1	25.52	31.75	39.99	3.2
24	43.1	38.13	15.0	2.2	40.0	32.00	34.92	43.15	3.8

JY3110J [Wall mounting receptacle J]



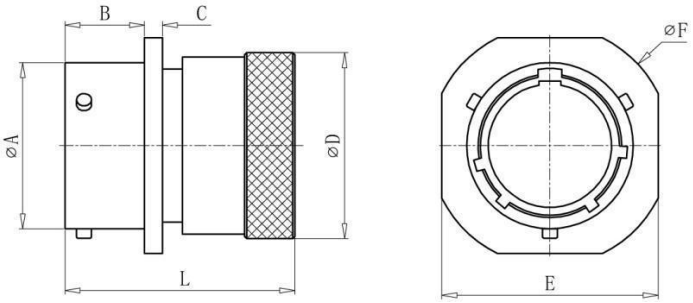
Shell no	L max	A	B	C	D	d max	E	F max	T
08	57.6	12.04	11.7	1.7	20.0	5.5	15.09	20.99	3.2
10	57.6	15.00	11.7	1.7	20.0	8.15	18.26	24.19	3.2
12	61.2	19.07	11.7	1.7	24.5	10.0	20.62	26.54	3.2
14	66.0	22.25	11.7	1.7	26.0	10.0	23.0	28.89	3.2
16	74.7	25.43	11.7	1.7	30.5	13.0	24.61	31.29	3.2
18	80.5	28.60	11.7	1.7	35.0	16.0	26.97	33.69	3.2
20	91.6	31.78	14.3	2.2	35.0	16.0	29.36	36.89	3.2
22	95.6	34.95	14.3	2.2	35.0	19.3	31.75	39.99	3.2
24	101.2	38.13	15.0	2.2	38.0	20.6	34.92	43.15	3.8

JY3111R [Cable connecting receptacle R]



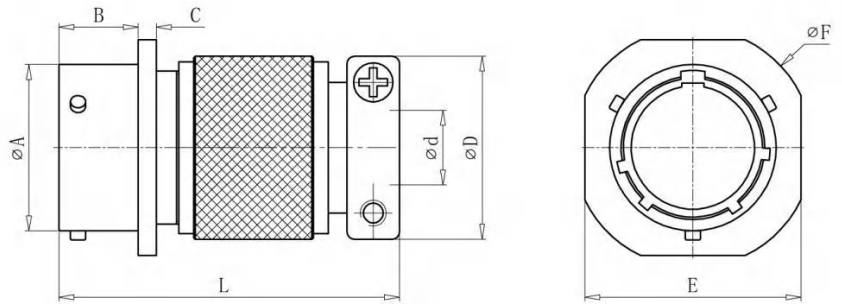
Shell no	L	A	B	C	E	F max	Screw thread D UNEF-2A
08	21.7	12.04	10.6	2.4	20.99	24.24	0.4375-28
10	21.7	15.00	10.6	2.4	24.19	27.44	0.5625-24
12	21.7	19.07	10.6	2.4	26.54	29.79	0.6875-24
14	21.7	22.25	10.6	2.4	28.89	32.10	0.8125-20
16	21.7	25.43	10.6	2.4	31.29	34.59	0.9375-20
18	21.7	28.60	10.6	2.4	33.69	36.94	1.0625-18
20	23.6	31.78	13.7	2.8	36.89	40.14	1.1875-18
22	23.6	34.95	13.7	2.8	40.00	43.24	1.3125-18
24	23.6	38.13	14.4	2.8	43.29	46.44	1.4375-18

JY3111E [Cable connecting receptacle E]



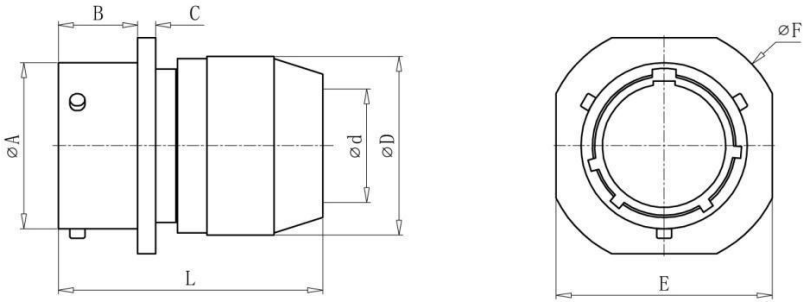
Shell no	L	A	B	C	D	E	F max
08	30.7	12.04	10.6	2.4	15.0	20.99	24.24
10	30.7	15.00	10.6	2.4	18.0	24.19	27.44
12	30.7	19.07	10.6	2.4	21.7	26.54	29.79
14	30.7	22.25	10.6	2.4	24.9	28.89	32.10
16	30.7	25.43	10.6	2.4	28.2	31.29	34.59
18	30.7	28.60	10.6	2.4	31.2	33.69	36.94
20	32.6	31.78	13.7	2.8	34.6	36.89	40.14
22	32.6	34.95	13.7	2.8	37.6	40.00	43.24
24	32.6	38.13	14.4	2.8	40.9	43.29	46.44

JY3111F [Cable connecting receptacle F]



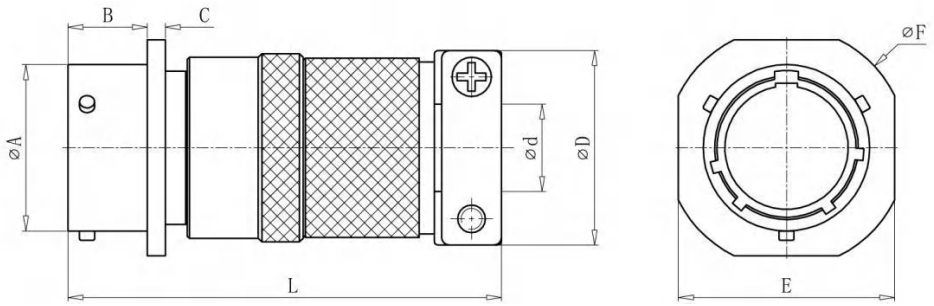
Shell no	L	A	B	C	D	d max	E	F max
08	45.5	12.04	10.6	2.4	18.2	5.5	20.99	24.24
10	45.5	15.00	10.6	2.4	20.2	8.15	24.19	27.44
12	45.5	19.07	10.6	2.4	23.2	10.0	26.54	29.79
14	47.0	22.25	10.6	2.4	26.2	10.0	28.89	32.10
16	47.0	25.43	10.6	2.4	31.2	13.0	31.29	34.59
18	47.0	28.60	10.6	2.4	34.2	16.0	33.69	36.94
20	49.9	31.78	13.7	2.8	34.2	16.0	36.89	40.14
22	49.9	34.95	13.7	2.8	38.2	19.3	40.00	43.24
24	49.9	38.13	14.4	2.8	41.2	20.6	43.29	46.44

JY3111P [Cable connecting receptacle P]



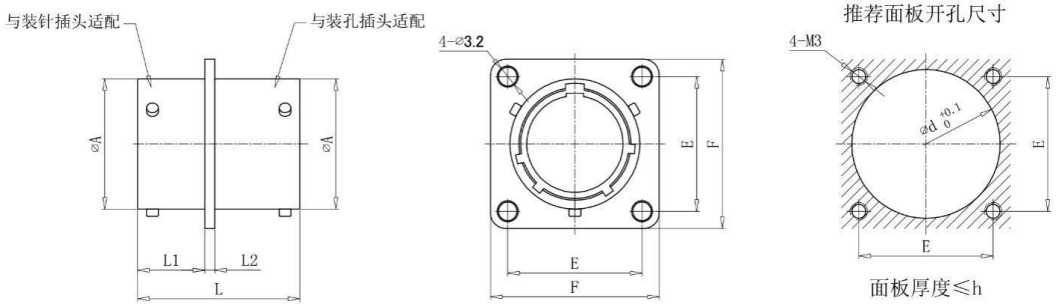
Shell no	L max	A	B	C	D	d max	E	F max
08	36.2	12.04	10.6	2.4	15.3	10.46	20.99	24.24
10	36.2	15.00	10.6	2.4	17.7	13.55	24.19	27.44
12	36.2	19.07	10.6	2.4	21.7	13.96	26.54	29.79
14	36.2	22.25	10.6	2.4	23.9	17.42	28.89	32.10
16	36.2	25.43	10.6	2.4	27.0	20.56	31.29	34.59
18	37.7	28.60	10.6	2.4	30.5	23.66	33.69	36.94
20	42.7	31.78	13.7	2.8	33.6	23.92	36.89	40.14
22	42.7	34.95	13.7	2.8	37.1	25.52	40.00	43.24
24	43.1	38.13	14.4	2.8	40.0	32.00	43.29	46.44

JY3111J [Cable connecting receptacle J]



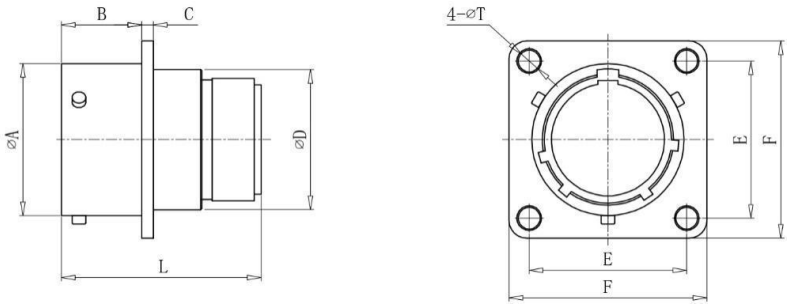
Shell no	L max	A	B	C	D	d max	E	F max
08	57.6	12.04	10.6	2.4	20.0	5.5	20.99	24.24
10	57.6	15.00	10.6	2.4	20.0	8.15	24.19	27.44
12	61.2	19.07	10.6	2.4	24.5	10.0	26.54	29.79
14	66.0	22.25	10.6	2.4	26.0	10.0	28.89	32.10
16	74.7	25.43	10.6	2.4	30.5	13.0	31.29	34.59
18	80.5	28.60	10.6	2.4	35.0	16.0	33.69	36.94
20	91.6	31.78	13.7	2.8	35.0	16.0	36.89	40.14
22	95.6	34.95	13.7	2.8	35.0	19.3	40.00	43.24
24	101.2	38.13	14.4	2.8	38.0	20.6	43.29	46.44

JY3112R[Box mounting receptacle R]



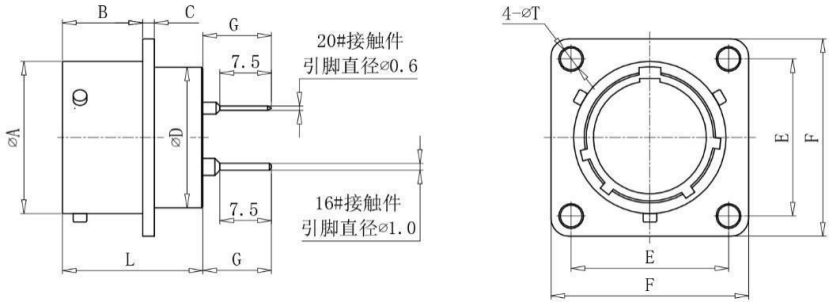
Shell no	A	E	F max	L	L1	L2	d	h
08	12.04	15.09	20.99	27.8	11.5	1.7	14.9	4.0
10	15.00	18.26	24.19	27.8	11.5	1.7	17.7	4.0
12	19.07	20.62	26.54	27.8	11.5	1.7	22.2	4.0
14	22.25	23.0	28.89	27.8	11.5	1.7	25.4	4.0
16	25.43	24.61	31.29	27.8	11.5	1.7	28.5	4.0
18	28.60	26.97	33.69	27.8	11.5	1.7	31.8	4.0
20	31.78	29.36	36.89	31.0	14.1	2.5	34.8	4.7
22	34.95	31.75	39.99	31.0	14.1	2.5	38.1	4.7
24	38.13	34.92	43.15	31.0	14.1	2.5	41.2	2.8

JY3112E[Box mounting receptacle E]



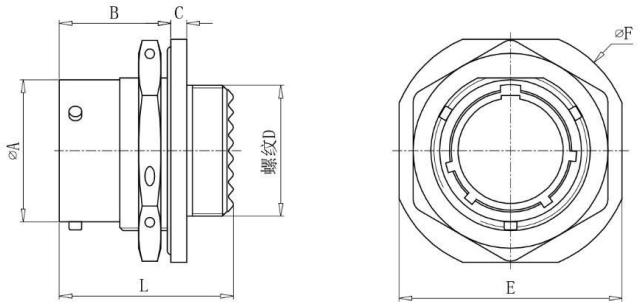
Shell no	L	A	B	C	D max	E	F max	T
08	29.2	12.04	11.7	1.7	10.84	15.09	20.99	3.2
10	29.2	15.00	11.7	1.7	13.99	18.26	24.19	3.2
12	29.2	19.07	11.7	1.7	17.37	20.62	26.54	3.2
14	29.2	22.25	11.7	1.7	20.57	23.0	28.89	3.2
16	29.2	25.43	11.7	1.7	23.72	24.61	31.29	3.2
18	29.2	28.60	11.7	1.7	26.69	26.97	33.69	3.2
20	30.8	31.78	14.3	2.2	29.89	29.36	36.89	3.2
22	30.8	34.95	14.3	2.2	33.04	31.75	39.99	3.2
24	30.8	38.13	15.0	2.2	26.24	34.92	43.15	3.8

JY3112B[Box mounting receptacle B]



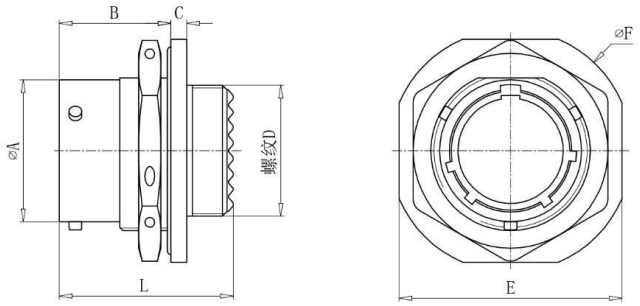
Shell no	L	A	B	C	D max	G max	E	F max	T
08	20.5	12.04	11.7	1.7	10.84	10.5	15.09	20.99	3.2
10	20.5	15.00	11.7	1.7	13.99	10.5	18.26	24.19	3.2
12	20.5	19.07	11.7	1.7	17.37	10.5	20.62	26.54	3.2
14	20.5	22.25	11.7	1.7	20.57	10.5	23.0	28.89	3.2
16	20.5	25.43	11.7	1.7	23.72	10.5	24.61	31.29	3.2
18	20.5	28.60	11.7	1.7	26.69	10.5	26.97	33.69	3.2
20	23.3	31.78	14.3	2.2	29.89	8.6	29.36	36.89	3.2
22	23.3	34.95	14.3	2.2	33.04	8.6	31.75	39.99	3.2
24	23.3	38.13	15.0	2.2	26.24	8.6	34.92	43.15	3.8

JY3114R [Jam nut receptacle R]



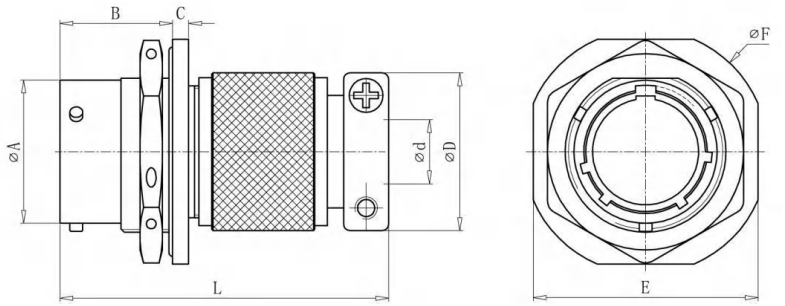
Shell no	L	A	B	C	E	F max	Screw thread D UNEF-2A
08	27.3	12.04	17.5	2.5	23.94	26.94	0.4375-28
10	27.3	15.00	17.5	2.5	26.94	30.14	0.5625-24
12	27.3	19.07	17.5	2.5	31.74	34.94	0.6875-24
14	27.3	22.25	17.5	2.5	34.94	38.04	0.8125-20
16	27.3	25.43	17.5	2.5	38.24	41.24	0.9375-20
18	27.3	28.60	17.5	2.5	41.34	44.44	1.0625-18
20	32.8	31.78	22.4	3.8	46.04	49.14	1.1875-18
22	32.8	34.95	22.4	3.8	49.24	52.24	1.3125-18
24	32.8	38.13	23.0	3.8	54.74	55.54	1.4375-18

JY3114E [Jam nut receptacle E]



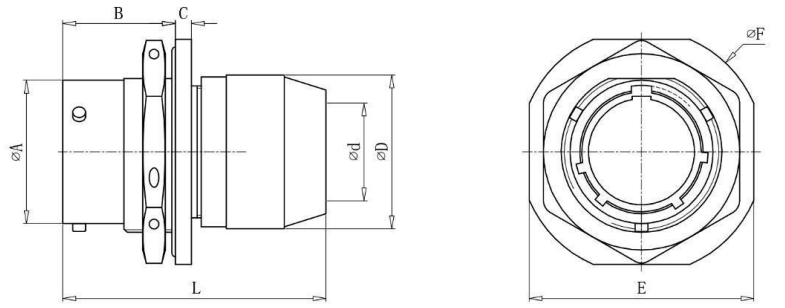
Shell no	L	A	B	C	D	E	F max
08	36.3	12.04	17.5	2.5	15.0	23.94	26.94
10	36.3	15.00	17.5	2.5	18.0	26.94	30.14
12	36.3	19.07	17.5	2.5	21.7	31.74	34.94
14	36.3	22.25	17.5	2.5	24.9	34.94	38.04
16	36.3	25.43	17.5	2.5	28.2	38.24	41.24
18	36.3	28.60	17.5	2.5	31.2	41.34	44.44
20	41.8	31.78	22.4	3.8	34.6	46.04	49.14
22	41.8	34.95	22.4	3.8	37.6	49.24	52.24
24	41.8	38.13	23.0	3.8	40.9	54.74	55.54

JY3114F [Jam nut receptacle F]



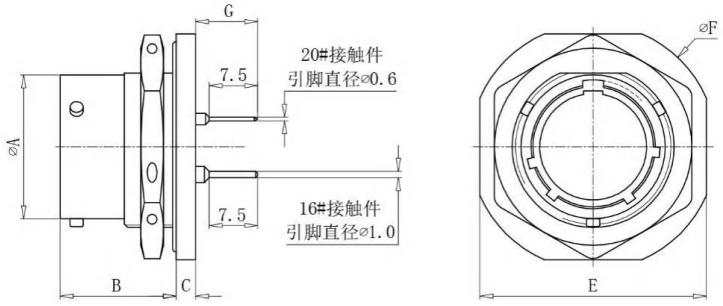
Shell no	L	A	B	C	D	d max	E	F max
08	51.1	12.04	17.5	2.5	18.2	5.5	23.94	26.94
10	51.1	15.00	17.5	2.5	20.2	8.15	26.94	30.14
12	51.1	19.07	17.5	2.5	23.2	10.0	31.74	34.94
14	52.6	22.25	17.5	2.5	26.2	10.0	34.94	38.04
16	52.6	25.43	17.5	2.5	31.2	13.0	38.24	41.24
18	52.6	28.60	17.5	2.5	34.2	16.0	41.34	44.44
20	59.1	31.78	22.4	3.8	34.2	16.0	46.04	49.14
22	59.1	34.95	22.4	3.8	38.2	19.3	49.24	52.24
24	59.1	38.13	23.0	3.8	41.2	20.6	54.74	55.54

JY3114P [Jam nut receptacle P]



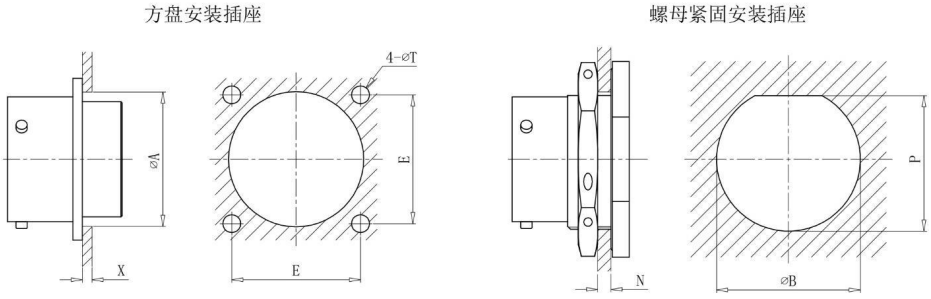
Shell no	L max	A	B	C	D	d max	E	F max
08	41.8	12.04	17.5	2.5	15.3	10.46	23.94	26.94
10	41.8	15.00	17.5	2.5	17.7	13.55	26.94	30.14
12	41.8	19.07	17.5	2.5	21.7	13.96	31.74	34.94
14	41.8	22.25	17.5	2.5	23.9	17.42	34.94	38.04
16	41.8	25.43	17.5	2.5	27.0	20.56	38.24	41.24
18	41.8	28.60	17.5	2.5	30.5	23.66	41.34	44.44
20	51.9	31.78	22.4	3.8	33.6	23.92	46.04	49.14
22	51.9	34.95	22.4	3.8	37.1	25.52	49.24	52.24
24	52.3	38.13	23.0	3.8	40.0	32.00	54.74	55.54

JY3114B [Jam nut receptacle B]



Shell no	A	B	C	D	G	F max
08	12.04	17.9	3.0	9.6	23.94	26.94
10	15.00	17.9	3.0	9.6	26.94	30.14
12	19.07	17.9	3.0	9.6	31.74	34.94
14	22.25	17.9	3.0	9.6	34.94	38.04
16	25.43	17.9	3.0	9.6	38.24	41.24
18	28.60	17.9	3.0	9.6	41.34	44.44
20	31.78	20.4	3.3	8.4	46.04	49.14
22	34.95	20.4	3.3	8.4	49.24	52.24
24	38.13	20.9	3.3	7.9	54.74	55.54

Receptacle panel opening size



Shell no	A	E	T	X max	B	P	N
08	15.55	15.09	3.2	2.9	14.60	13.75	1.8-5.7
10	18.80	18.26	3.2	2.9	17.75	16.95	1.8-5.7
12	22.15	20.62	3.2	2.9	22.50	21.50	1.8-5.7
14	25.30	23.00	3.2	2.9	25.70	24.20	1.8-5.7
16	28.45	24.61	3.2	2.9	28.85	27.35	1.8-5.7
18	31.65	26.97	3.2	2.9	32.05	30.55	1.8-5.7
20	34.80	29.36	3.2	5.5	35.20	33.70	1.8-8.6
22	38.00	31.75	3.2	5.5	38.40	36.90	1.8-9.6
24	41.20	34.92	3.8	5.5	41.55	40.05	1.8-9.5

GJB598 II series (MIL-C-26482 II series) electrical connector

Product introduction

- Comply with GJB598 (MIL-C-26482) Ⅱ series standard
- Bayonet fast connection
- Removable gold-plated crimped contacts
- High contact density
- RFI (anti-RF interference) shielding plug
- Insert surface interface seal
- Widely used in all kinds of military and civilian equipment

Application: The product is used for circuit signal connection

Application environment: The product is used in a variety of military and civilian environment, anti-moisture, anti-salt spray, anti-mold, anti-rain, anti-dust and other environments

Technical features

- **Mechanical**

  Material:

  Shell: Aluminum alloy

  Insulator: thermoplastic

  Grommet and sealing ring: silicone rubber

  Coating:

  W: cadmium plated olive brown, conductive shell

  L: nickel plating, conductive shell

  A: black anodized, non conductive shell

  B: Olive drab cadmium, conductive shell

  S: stainless steel, conductive shell

  BW : cadmium plated brown green, conductive shell

  Contact : copper alloy surface gold-plated,the crimping can be unloaded

  Mechanical life: ≥500 mating (JY3475 shielded plug for 250 times)

  Impact: Pulse of an approximate half sine wave of 300g magnitude with duration of 3 milliseconds applied in 3 axe

  Random vibration: frequency 10 ~ 2000Hz,power spectral density is 1.0G²/Hz

- **Electrical**

  Voltage resistance: V

Work levels	Operating voltage		Breakdown voltage	
	I	II	I	II
Sea level	600	1000	1500	2300
21336m	300	450	375	500

Note: Different contact arrangements have different working levels, see the upper right corner of the contact arrangement mark.

Contact resistance and rated current

Contact specification	Working diameter (mm)	Contact resistance mΩ	Rated current A
20#	Φ1.00	≤5	7.5
16#	Φ1.60	≤2.5	13
12#	Φ2.40	≤1.5	23

Insulation resistance: ≥5000MΩ at 25˚C, ≥3MΩ at 125˚C

- **Environmental**

Temperature range: -55 ˚C ~+175 ˚C（W ）, -55 ˚C ~+200 ˚C（L、A、S）

Relative humidity: 95±4% at 40 ˚C

Salt spray resistance: W：500h； L：96h； A：48h； S：1000h

Anti-rf interference: frequency 100~1000MHz, leakage attenuation 65~45dB (JY3475 plug)

Liquid resistance: 12 kinds of liquids such as aviation gasoline, refrigerated oil, lubricating oil (L)

How to Build Your Connector Part Number

JY 3474 L 18- 35 P N

Connector series

Type of connector

3470 Wall mounting receptacle with narrow flange

3474 Jam nut receptacle

3475 Straight plug with RFI grounding fingers

3476 Straight plug

Shell coating:

W - cadmium-plated olive brown

L- nickel plating

A- Non-conductive black anodized

S-stainless steel

B- Cadmium plated army green

BW- cadmium-plated brown green

Shell size A-J

08-10-12-14-16-18-20-22-24

Shell Size & Insert Arrangement

See Insert Arrangement Selection table

Contact Style

P = Pin contacts

S = Socket contacts

Keying

N- Normal key position

W, X, Y, Z- other key

Note:

1. the national military standard GJB598 and the US military standard MIL-C-26482 and the domestic "YB" series of product model naming, in addition to the main name code is not used, the rest are identical.

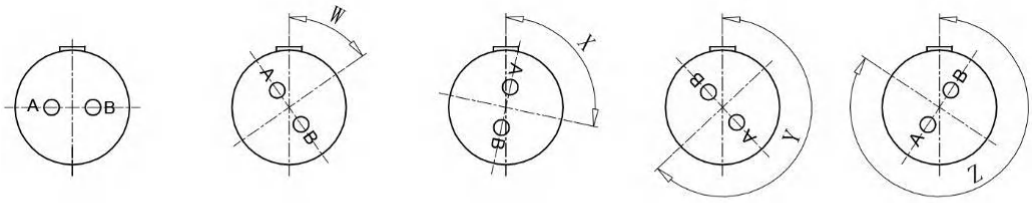
The main name code of GJB598 is "JY", the main name code of MIL-C-26482 is "MS", and the main name code of domestic "YB" series is "YB", and the three can be interchangeable.

2. JY3475 RF interference plug can not choose black anodized coating.

Model mark example

JY3474L18-35PN: JY series 3474 nut mounting socket, shell material and coating of aluminum alloy nickel plating, 18# shell, 35 contact, insert Needle contact, N key position.

Key position(the insulator rotates in the shell)



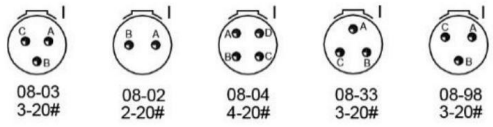
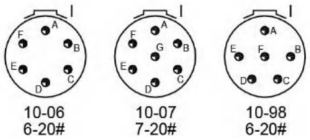
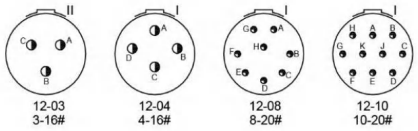
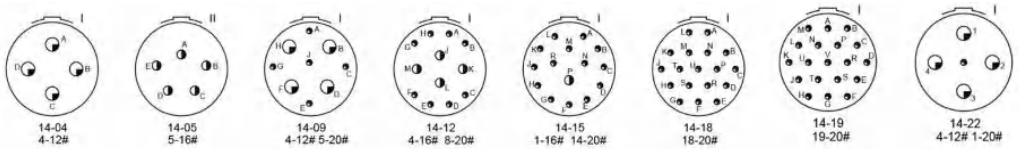
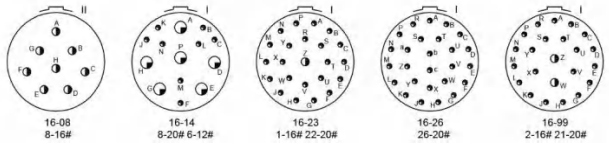
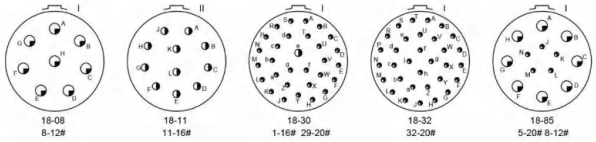
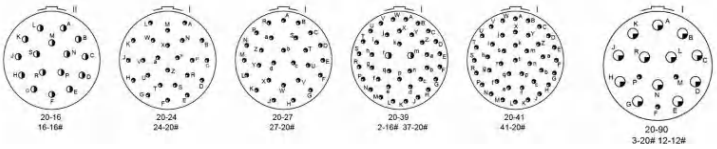
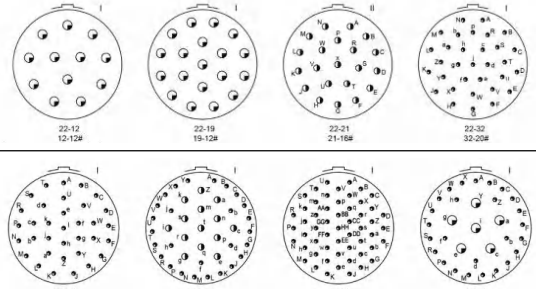
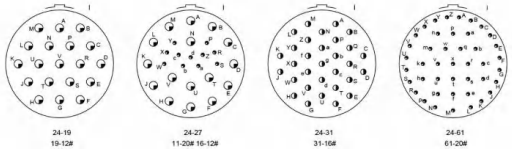
N键位　　W键位　　X键位　　Y键位　　Z键位

键位角度：从插针的正面方向看，旋转角度如上图所示。

壳体号	排列代号	角度				
		N	W	X	Y	Z
08	08-2	0	58	122	-	-
	08-3	0	60	210	-	-
	08-4	0	45	-	-	-
	08-33	0	90	-	-	-
	08-98	0	-	-	-	-
10	10-6	0	90	-	-	-
	10-7	0	-	-	-	-
	10-98	0	90	180	240	270
12	12-3	0	-	-	180	-
	12-4	0	45	-	-	-
	12-8	0	90	112	203	292
	12-10	0	60	155	270	295
14	14-4	0	45	-	-	-
	14-5	0	40	92	184	273
	14-9	0	15	90	180	240
	14-12	0	43	90	-	-
	14-15	0	17	110	155	234
	14-18	0	15	90	180	270
	14-19	0	30	165	315	-
	14-22	0	45	-	-	-
16	16-8	0	54	152	180	331
	16-14	0	25	78	180	240
	16-23	0	158	270	-	-
	16-26	0	60	-	275	338
	16-99	0	66	156	223	340

壳体号	排列代号	角度				
		N	W	X	Y	Z
18	18-8	0	180	-	-	-
	18-11	0	62	119	241	340
	18-30	0	180	193	285	350
	18-32	0	85	138	222	265
	18-85	0	45	90	180	240
20	20-16	0	238	318	333	347
	20-24	0	70	145	215	290
	20-27	0	72	144	216	288
	20-39	0	63	144	252	333
	20-41	0	45	126	225	-
	20-90	0	18	60	240	270
22	22-12	0	-	-	-	-
	22-19	0	15	90	225	308
	22-21	0	16	135	175	349
	22-32	0	72	145	215	288
	22-34	0	62	142	218	298
	22-41	0	39	135	264	-
	22-55	0	30	142	226	314
	22-95	0	26	180	266	-
24	24-19	0	30	165	315	-
	24-27	0	45	110	140	225
	24-31	0	90	225	255	-
	24-61	0	90	180	270	324

Contact arrangement (pin insulator insertion surface view)

08	
10	
12	
14	
16	
18	
20	
22	
24	



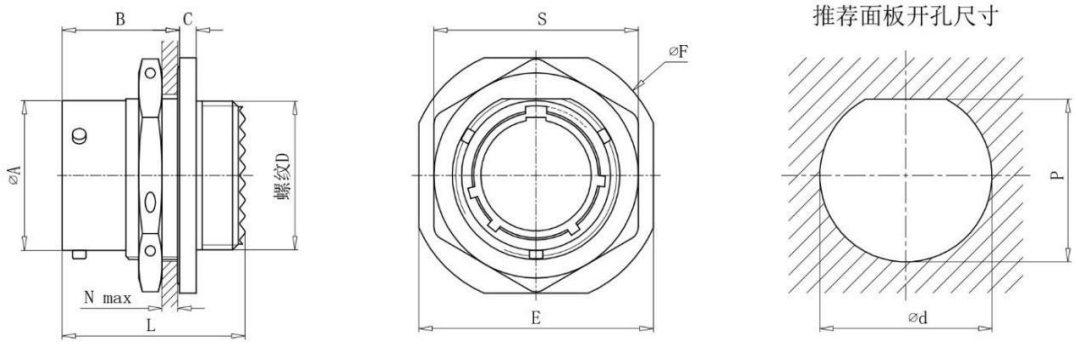
This series of products is designed according to GJB598 with an insulator keyway. In the standard, there are design defects in the insulator keyway. The contact arrangement of uniform distribution around the circumference cannot effectively prevent misinsertion. 08-2, 08-4, 08-33, 10-6, 10-98, 12-4, 14-4, 16-23, 16-26, 18-11, 18-32, 20-41 contact, please pay attention to the selection.

Overall dimension

JY3475/JY3476 [Straight plug]

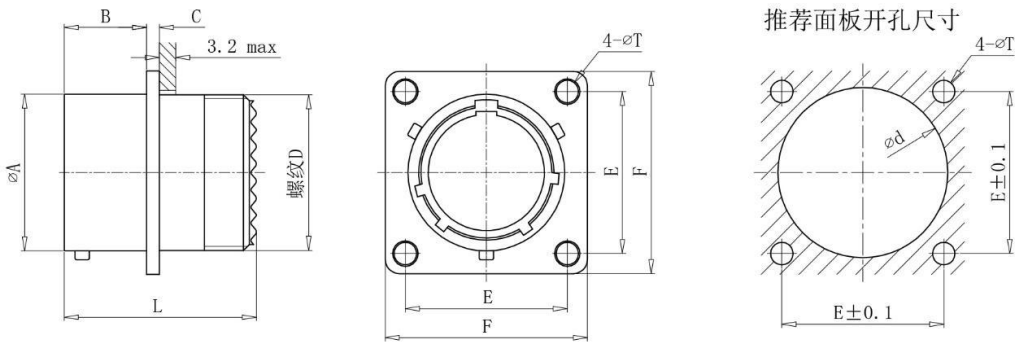
Shell number	L	D	Screw thread D1 UNEF-2A
08	27.3	18.8	0.5000-20
10	27.3	21.8	0.6250-24
12	27.3	24.8	0.7500-20
14	27.3	28.7	0.8750-20
16	27.3	31.7	1.0000-20
18	27.3	35.6	1.0625-18
20	29.0	38.5	1.1875-18
22	29.0	41.7	1.3125-18
24	29.0	44.7	1.4375-18

JY3474 [Jam nut receptacle]



Shell number	L	A	B	C	E	F	S	N	d	P	Screw thread D1UNEF-2A
08	27.3	12.04	17.5	2.5	24.0	27.2	19.2	4.8	14.6	13.7	0.5000-20
10	27.3	15.00	17.5	2.5	27.0	30.4	22.5	4.8	17.8	16.9	0.6250-24
12	27.3	19.07	17.5	2.5	32.0	35.2	27.9	4.8	22.8	21.0	0.7500-20
14	27.3	22.25	17.5	2.5	35.0	38.3	30.5	4.8	25.7	24.1	0.8750-20
16	27.3	25.43	17.5	2.5	38.2	41.5	33.6	4.8	28.8	27.3	1.0000-20
18	27.3	28.6	17.5	2.5	41.34	44.44	36.8	4.8	32.1	30.5	1.0625-18
20	29.0	31.78	19.0	3.3	46.04	49.14	40.0	6.4	35.2	33.7	1.1875-18
22	29.0	34.95	19.0	3.3	49.24	52.24	43.2	6.4	38.4	36.8	1.3125-18
24	29.0	38.13	19.0	3.3	52.74	55.54	46.3	5.4	41.6	40.1	1.4375-18

JY3470 [3470 Wall mounting receptacle with narrow flange]



Shell number	L	A	B	C	E	F	T	d	Screw thread D1UNEF-2A
08	27.3	12.04	11.7	1.8	15.1	21.0	3.2	14.4	0.5000-20
10	27.3	15.00	11.7	1.8	18.3	24.2	3.2	17.3	0.6250-24
12	27.3	19.07	11.7	1.8	20.6	26.5	3.2	21.9	0.7500-20
14	27.3	22.25	11.7	1.8	23.0	28.7	3.2	25.1	0.8750-20
16	27.3	25.43	11.7	1.8	24.6	31.2	3.2	28.2	1.0000-20
18	27.3	28.6	11.7	1.8	27..0	33.7	3.2	31.4	1.0625-18
20	29.0	31.78	14.3	2.7	29.4	36.9	3.2	34.6	1.1875-18
22	29.0	34.95	14.3	2.7	31.8	40.0	3.2	37.7	1.3125-18
24	29.0	38.13	15.2	2.7	34.9	43.3	3.8	41.0	1.4375-18

Crimp contact for GJB 598Ⅱ series

Contact specification	Working diameter (mm)	Pin color	Socket color	Th inner diameter of the cylinder is mm	Outer diameter of wire cylinder mm	Adaptive wire cross section mm2	Adapted to American Standard cable AWG	Adaptive wire insulation outer diameter mm	Pick and unload tool code	Crimping tool
20#	Φ1.00	brown-brown-black	brown-brown-green	1.2	1.98	0.2 0.3 0.5	24 22 20	1.02-2.11	M81969/14-11	YJQ-02 XDWQ-01
16#	Φ1.60	brown-brown-brown	brown-brown-black	1.7	2.6	0.5 0.8 1.0 1.2	20 18 16	1.35-2.62	M81969/14-03	XCXY-01/ DWQ-09
12#	Φ2.40	brown-brown-orange	brown-brown-gray	2.5	3.8	2.0 3.0	14 12	2.46-4.01	M81969/14-04	XCXY-01/ DWQ-09

Backshell (Applicable to GJB598 Ⅱ series electrical connector)

Backshell conforming to GJB1784 are only suitable for the GJB598-II series

Connector type	Adapter cable accessory type
JY598Ⅰ Series R plug, socket (other parts come with accessories or can not be equipped with accessories)	Shielding, tensile resistance, rain protection accessories, e.g. 08FF8B I-6.4
JY598Ⅱ series plug and receptacle	J1784/52, J1784/31, 51 J1784 / accessories J1784A/52-**NA, J1784A/52-**NB accessories TJ1784/60, 26 TJ1784 / accessories Shielding anti-rain accessories, for example: 08FF8BⅡ-6.4

Part Number

J1784/31、J1784/51、J1784/52 Backshell

J1784 / 31 - 10 N

Series Main Name

Type:

32-I Tail nut type

52-II straight cable clamp

51-III bent cable clamp

Shell number:

08 10 12 14 16 18 20 22 24

Shell coating:

W - cadmium plated army green

A- Black anodized

B- S-stainless steel

N - nickel plating

W2- Cadmium plated Army green

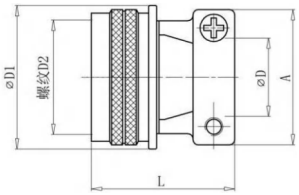
Note:

1, the model name of the national military standard GJB 1784 and the US military standard MIL-C-85049, except for the basic component number is different, the rest are identical. The basic component number of the GJB1784 is "J1784", and the main designation of the MIL-C-85049 is "M85049", which are interchangeable.

2, accessories supporting screws are stainless steel cross slot pan head screws, if customer needs stainless steel beacon screws, need to add HB in the end.

Overall dimension

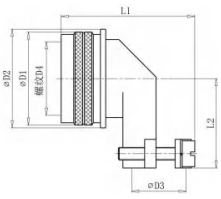
J1784/52-II Straight cable clamp



Shell number	D1	Thread D2 UNEF	D	A	L
08	17.6	0.5000-20	2.49-5.94	20	23.6
10	20.6	0.6250-24	3.87-5.94	22	24.6
12	23.6	0.7500-20	4.83-8.33	24.5	26.7
14	27.6	0.8750-20	6.60-11.61	26	27.7
16	30.3	1.0000-20	7.19-15.60	30.5	27.7
18	33.3	1.0625-18	8.26-16.10	35	29
20	36.8	1.1875-18	8.71-17.73	38	30.4
22	39.3	1.3125-18	9.68-20.90	41	32.4
24	42.3	1.4375-18	10.62-21.66	44	34.4

Anti-turning, clamping cable accessories, can tighten the hoop to grommet, clamping cable function, to ensure the environmental performance of the connector, for cable tension occasions

J1784/51-III Bent cable clamp



Shell	D1	D2	D3	Thread	L1 max	L2max
08	16.5	17.6	3.2-6.4	0.5000-20	29.0	25.0
10	19.5	20.6	4.0-9.5	0.6250-24	32.0	26.0
12	22.5	23.6	4.8-11.1	0.7500-20	33.5	27.5
14	26.5	27.6	5.5-14.3	0.8750-20	36.5	31.0
16	29.5	30.3	6.4-15.9	1.0000-20	38.5	32.5
18	32.5	33.3	7.9-19.1	1.0625-18	41.5	34.0
20	36.0	36.8	9.5-22.2	1.1875-18	44.5	34.5
22	38.5	39.3	10.3-23.8	1.3125-18	46.0	36.4
24	41.7	42.3	14.3-25.4	1.4375-18	48.0	43.5

Anti-rotation, cable 90° clamping cable accessories, can tighten the collar grommet, 90° clamping cable function, ensure the environmental resistance of the connector, used for cable tension occasions.

Plug and Receptacle Seal cover(for GJB598 Ⅰ series, Ⅱ series)

Part Number

Series Main Name **JY3180 - 10 C N L**

Type:

JY3180 - Plug seal cover (corresponding to US Army standard MS3180)

JY3181 - Socket seal cover (corresponding to US Army standard MS3181)

Shell number:

08 10 12 14 16 18 20 22 24

Chain type

A- Nylon cord with loop (for JY3474 or 3114 socket)

C- Metal chain

R-nylon rope

N- Metal chain with ring (for JY3474 or 3114 socket)

Shell coating

W - cadmium-plated olive brown

N - nickel plating

A- Black anodized

W2- Cadmium plated Army green

S-stainless steel

BW- cadmium-plated brown green

No marking - no coating (JY3181 only)

Chain length

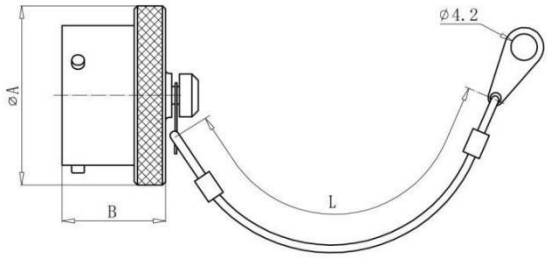
Unmarked - Standard length

L- Chain length 127mm

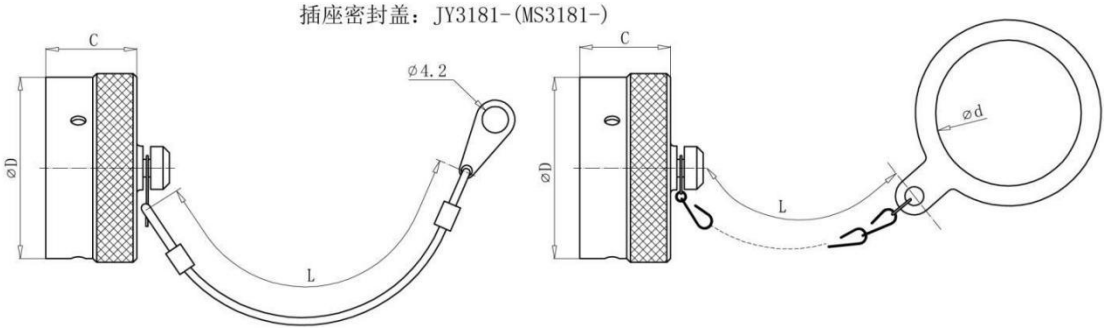
(Note: The sealing cover should be ordered separately, not supplied with the connector, and can be customized according to customer requirements)

Overall dimension

插头密封盖：JY3180-(MS3180-)



插座密封盖：JY3181-(MS3181-)



Shell Size	08	10	12	14	16	18	20	22	24
A Max	18.86	21.65	25.92	29.2	32.3	35.4	38.55	41.7	44.7
B Max	13.75	13.75	13.75	13.75	13.75	13.75	15.35	15.35	15.35
C Max	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	15.5
D Max	18.5	21.7	25.3	29.0	31.6	38.0	38.0	41.1	44.2
d Max	16.0	18.0	22.8	26.0	29.0	35.5	35.5	38.6	42.0
L Max	76.2	76.2	88.9	88.9	88.9	101.6	101.6	101.6	101.6

MIL-DTL-38999 I Series Connector

Product introduction

- Comply with GJB599B (MIL-DTL-38999M) I series standard.
- Bayonet fast connection, with small size, light weight, high contact couple density advantages.
- EMI/RFI shielding.
- Five-key guide mechanism, which can realize blind insertion and anti-misinsertion.
- The socket has a variety of forms, such as box type, wall type, front installation, post installation and nut fastening installation.The contact parts can be crimped and detachable, anti-slant insert design
- 9 kinds of shell size, a variety of hole position contact arrangement
- High strength vibration resistance
- Different materials and coatings can be selected for the outer shell to meet different environmental requirements
- The insert surface and tail have a sealed structure, excellent three protection performance
- Adapts to GJB1784 standard tail attachment

Application: The product is used for circuit signal connection
Environment: The product is used in complex environment such as strong vibration, wind sand and humid

Technical features

- **Mechanical:**
  Material:
  Shell**:** Aluminum alloy, stainless steel, titanium alloy
  Insulator: thermosetting plastic or thermoplastic
  Grommet and seal: silicone rubber
  Plating:
  B: Cadmium plating Military green
  E: stainless steel passivation
  F: electroless nickel plating
  FT : Aluminum alloy satin plated cadmium
  TA : titanium alloy
  Contact body: copper alloy surface gold-plated, there are pressing type, soldering type and PCB type
  Mechanical life: ≥500 mating / unmating operations
  Vibration:
  Sinusoidal vibration ,frequency 10 ~ 2000Hz ,Acceleration 294m/s²
  Random vibration ,frequency 100 ~ 1000Hz ,Power spectral density 1g²/Hz
  Shock: 300g during 3ms

- **Electrical:**

  Contact resistance and rated current

Contact specification	Working diameter (mm)	Contact resistance mΩ	Rated current A
22D	Φ0.76	≤12	5
20#	Φ1.00	≤5	7.5
16#	Φ1.60	≤2.5	13
12#	Φ2.40	≤1.5	23
10#	Φ3.15	≤1.0	40

  Shielding

  At 100 MHZ ~ 1GHz, the minimum attenuation is 85dB

  At 1GHz ~ 10GHz, the minimum attenuation is 50dB

  Voltage resistance: V (Note: Different contact arrangements have different work levels, specific work levels see the the contact arrangement)

Work levels	M	N	I	II
Sea level	1300	1000	1800	2300
21000m	800	600	1000	1000

  Insulation resistance: Normal conditions ≥5000MΩ

  Wet conditions≥100MΩ

  Shell continuity: B ≤2.5mV F 、FT ≤1.0mV E 、TA ≤50mV

- **Environmental:**

  Temperature range: B : -65 ˚C ~ +175 ˚C E、 F : -65 ˚C ~ +200 ˚C

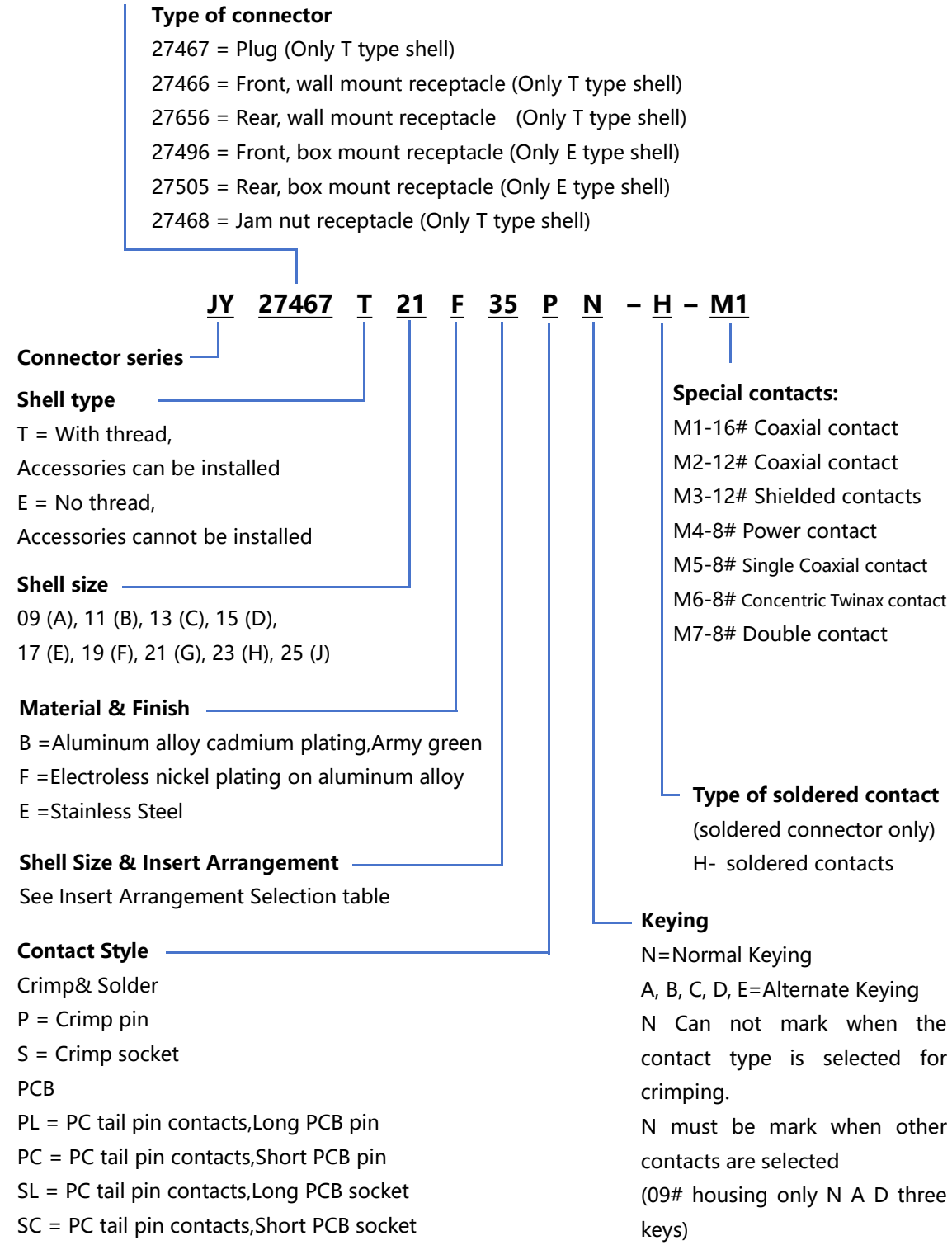
  Salt spray resistance: B: 500h E、TA : 1000h F : 48h/96h FT : 96h

  Relative humidity: up to 98% at 40 ˚C

  Working height: ≤30480m

- **Other performance:** The point connector also has good anti-moisture, anti-salt spray, anti-mold, anti-sand and dust performance.

How to Build Your Connector Part Number



Note:

1. GJB599B and MIL-DTL-38999M are identical except for the main name code

2, C1 at the end of the Part Number , indicating the need for high oil resistance sealing material, the material is fluorine silicone rubber

3,C2 or (C2) at the end of the Part Number, indicating that the product needs to be equipped with conductive square disk rubber pads

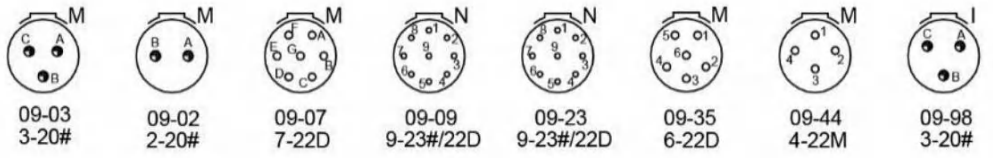
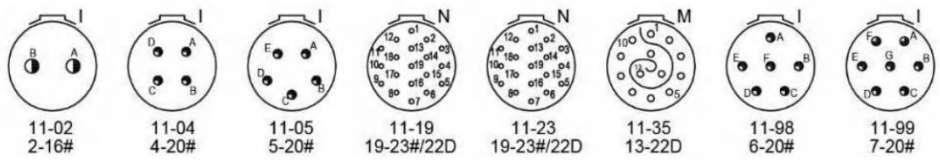
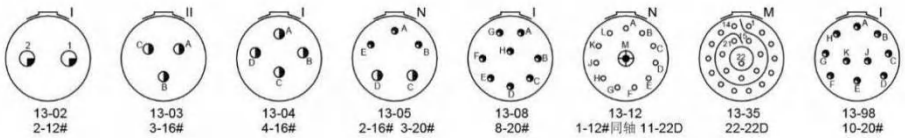
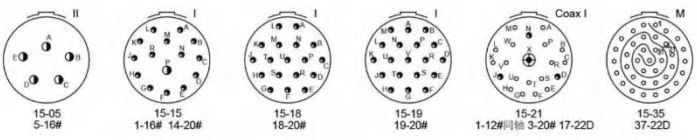
Crimp Contacts

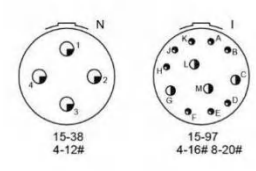
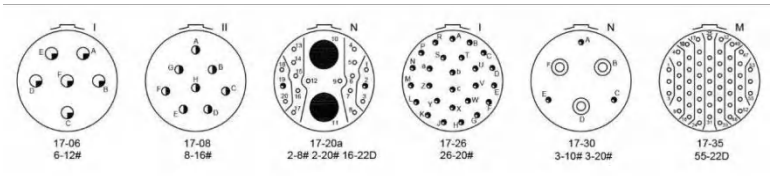
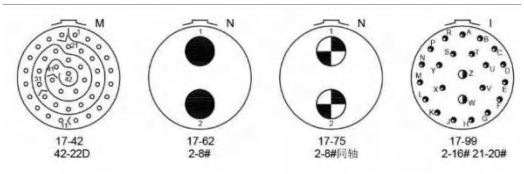
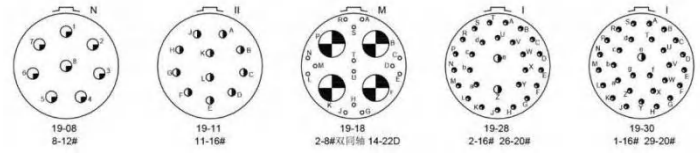
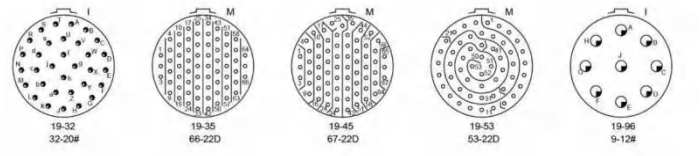
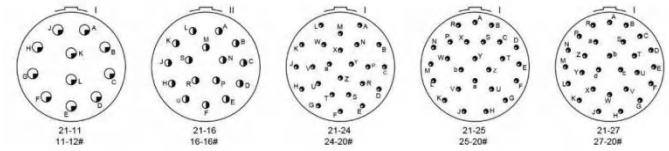
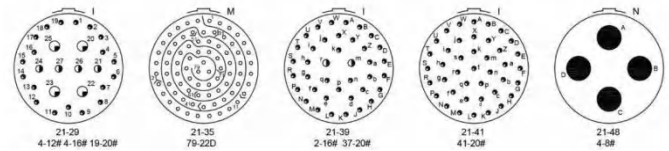
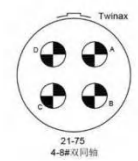
Contact specification	Work diameter	Pin color	Socket color	Inside diameter of crimp barrel mm	Outer diameter of crime barrel mm	Conductor section mm2	Adapted USA cable AWG	Adapted cableinsulated outer diameter mm	Unloading tool code	Crimp tool
22D	Φ0.76	orange-blue-black	orange-yellow-gray	0.85	1.20	0.08 0.125 0.2 0.3	28 26 24 22	0.76~1.37	M81969/14-01	YJQ-02
20#	Φ1.00	orange-blue-orange	orange-green-brown	1.17	1.78	0.2 0.3 0.5	24 22 20	1.02~2.11	M81969/14-10	YJQ-02 XCXY-01
16#	Φ1.60	orange-blue-yellow	orange-green-red	1.68	2.62	0.5 0.8 1.0 1.2	20 18 16	1.65~2.77	M81969/14-03	XCXY-01
12#	Φ2.40	orange-blue-green	orange-green-orange	2.49	3.84	2.0 3.0	14 12	2.46~3.61	M81969/14-04	XCXY-01
10#	Φ3.15	Green-red-gray	green-orange-purple	3.40	4.65	4.8	10	3.42~4.12	M81969/14-05	XCXY-01 YTQ
8#	Φ3.60	-	-	4.55	6.4	8.37	8	6.4~6.9	M81969/14-12	YTQ

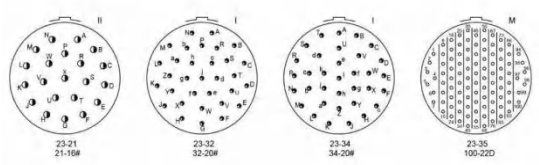
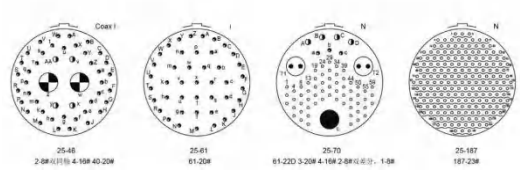
Solder Contacts

Contact specification	Inside diameter of welded wire cup	Maximum Adapter Wire Gauge (AWG)
22D	Φ0.9	22
20#	Φ1.1	20
16#	Φ1.9	16
12#	Φ2.9	12
10#	Φ3.6	10
8#	Φ4.8	8

Contact arrangement (pin insulator insertion surface view)

09	
11	
13	
15	

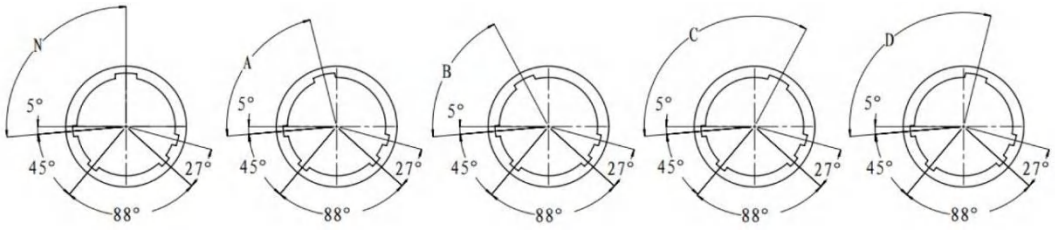
	15-38 4-12# 15-97 4-16# 8-20#
17	17-06 6-12# 17-08 8-16# 17-20a 2-8# 2-20# 16-22D 17-26 26-20# 17-30 3-10# 3-20# 17-35 55-22D
	17-42 42-22D 17-62 2-8# 17-75 2-8#同轴 17-99 2-16# 21-20#
19	19-08 8-12# 19-11 11-16# 19-18 2-8#双同轴 14-22D 19-28 2-16# 26-20# 19-30 1-16# 29-20#
	19-32 32-20# 19-35 66-22D 19-45 67-22D 19-53 53-22D 19-96 9-12#
21	21-11 11-12# 21-16 16-16# 21-24 24-20# 21-25 25-20# 21-27 27-20#
	21-29 4-12# 4-16# 19-20# 21-35 79-22D 21-39 2-16# 37-20# 21-41 41-20# 21-48 4-8#
	Twinax 21-75 4-8#双同轴

23	
25	

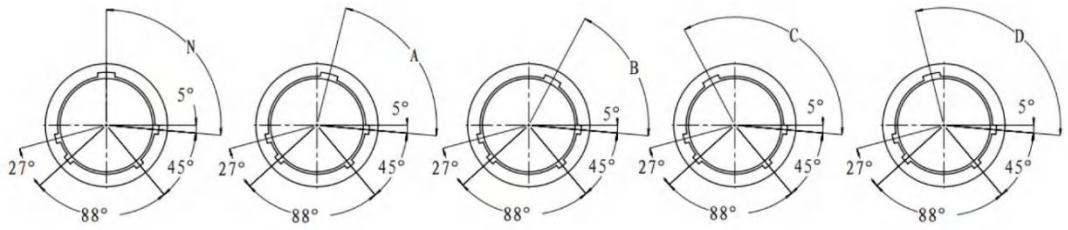


Shell and keys

Receptacle key Angle



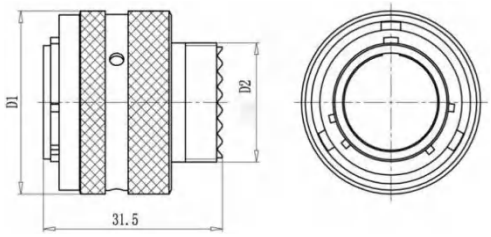
Plug key Angle



Key Code	09	11	13	15	17	19	21	23	25
N	95°	95°	95°	95°	95°	95°	95°	95°	95°
A	77°	81°	75°	74°	77°	77°	77°	80°	80°
B	-	67°	63°	61°	65°	65°	65°	69°	69°
C	-	123°	127°	129°	125°	125°	125°	121°	121°
D	113°	109°	115°	116°	113°	113°	113°	110°	110°

Product Size

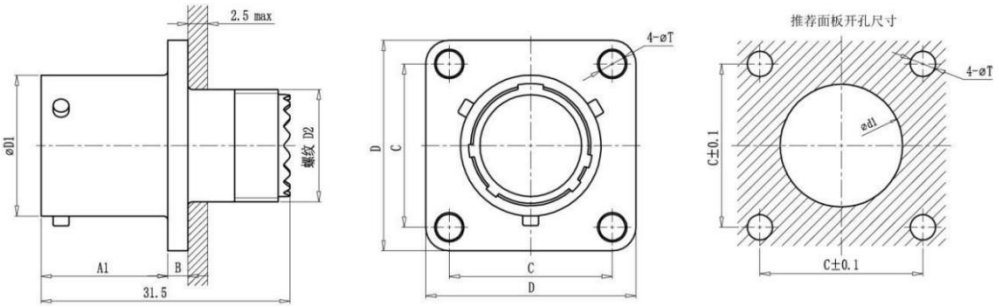
MS27467 Plug



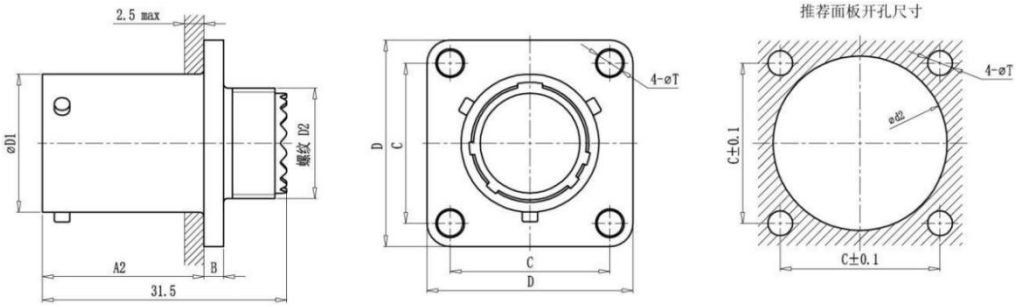
Shell number	D1	Screw thread D2 UNEF-2A
09	21.6	0.4375-28
11	24.7	0.5625-24
13	28.6	0.6875-24
15	31.5	0.8125-20
17	35.5	0.9375-20
19	38.5	1.0625-18
21	41.6	1.1875-18
23	44.6	1.3125-18
25	47.6	1.4375-18

MS27466 & MS27656
Wall type square plate receptacle

MS27466 Front, wall mount receptacle



MS27656 Rear, wall mount receptacle

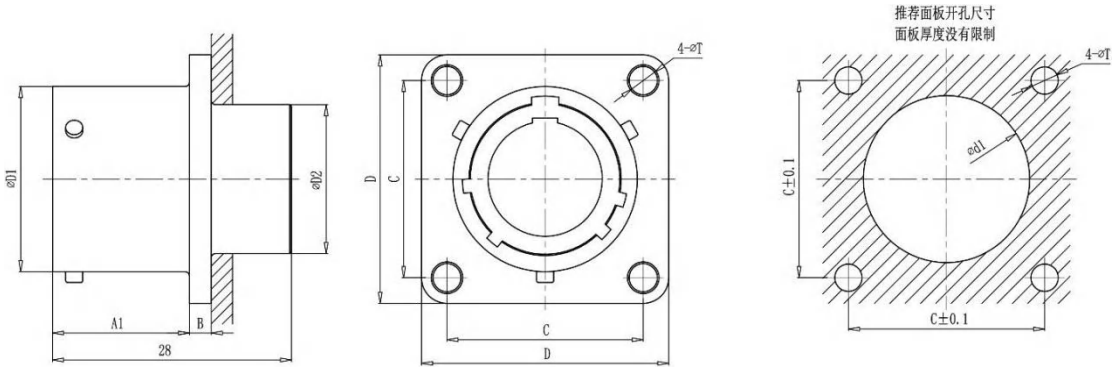


Shell no	D1	Screw thread D 2UNEF-2A	A1	A2	B	C	D	T	d1	d2
9	14.6	0.4375-28	16.1	20.8	2.54	18.26	23.8	3.2	12.5	16.7
11	17.8	0.5625-24	16.1	20.8	2.54	20.62	26.2	3.2	15.5	20.2
13	21.6	0.6875-24	16.1	20.8	2.54	23.02	28.6	3.2	19.5	24.5
15	24.8	0.8125-20	16.1	20.8	2.54	24.62	31.0	3.2	21.5	27.7
17	28.0	0.9375-20	16.1	20.8	2.54	26.98	33.3	3.2	25.0	30.9
19	30.7	1.0625-18	16.1	20.8	2.54	29.36	36.5	3.2	28.0	32.9
21	33.8	1.1875-18	15.3	20.1	3.3	31.76	39.7	3.7	31.5	36.2
23	37.0	1.3125-18	15.3	20.1	3.3	34.92	42.9	3.7	34.5	39.3
25	40.2	1.4375-18	15.3	20.1	3.3	38.10	46.0	3.7	37.5	42.5

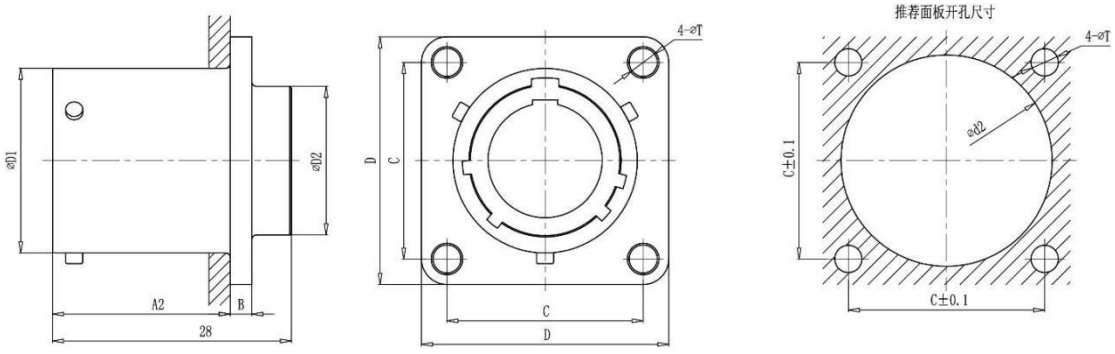
MS27496 & MS27505

Box mount receptacle

27496 = Front, box mount receptacle

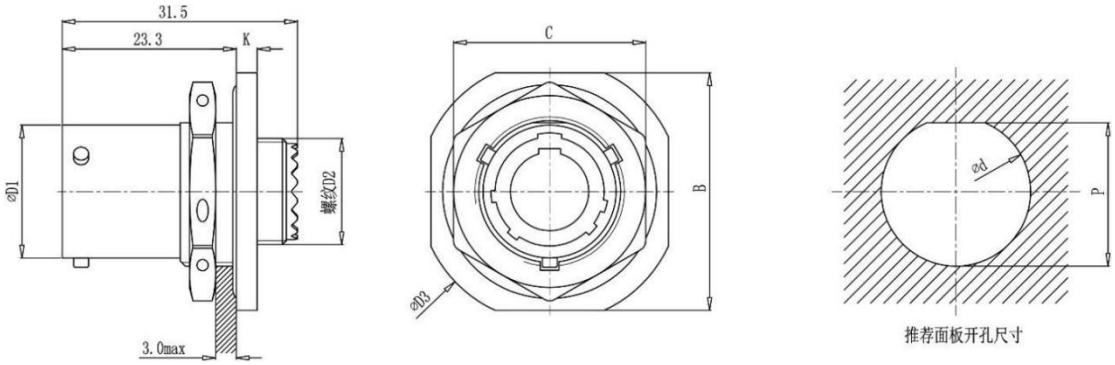


27505 = Rear, box mount receptacle



Shell no	D1	D2	A1	A2	B	C	D	T	d1	d2
9	14.6	11.2	16.1	20.8	2.54	18.26	23.8	3.2	12.5	16.7
11	17.8	14.5	16.1	20.8	2.54	20.62	26.2	3.2	15.5	20.2
13	21.6	18.0	16.1	20.8	2.54	23.02	28.6	3.2	19.5	24.5
15	24.8	20.5	16.1	20.8	2.54	24.62	31.0	3.2	21.5	27.7
17	28.0	23.8	16.1	20.8	2.54	26.98	33.3	3.2	25.0	30.9
19	30.7	26.5	16.1	20.8	2.54	29.36	36.5	3.2	28.0	32.9
21	33.8	29.7	15.3	20.1	3.3	31.76	39.7	3.7	31.5	36.2
23	37.0	32.8	15.3	20.1	3.3	34.92	42.9	3.7	34.5	39.3
25	40.2	36.0	15.3	20.1	3.3	38.10	46.0	3.7	37.5	42.5

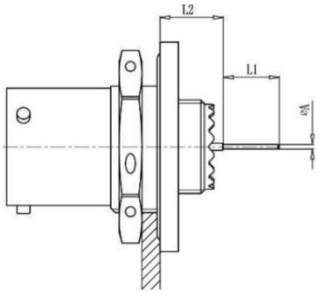
MS27468 =Jam nut receptacle



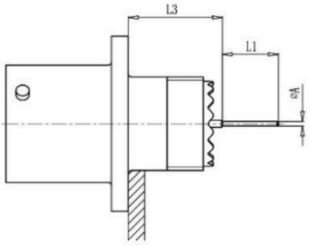
Shell no	D1	Screw thread D2UNEF-2A	D3	B	K	C	d	p
9	14.6	0.4375-28	30.2	27.1	2.8	22.5	17.7	17.0
11	17.8	0.5625-24	35.0	31.8	2.8	25.7	21.0	19.6
13	21.6	0.6875-24	38.1	35.0	2.8	30.5	25.6	24.3
15	24.8	0.8125-20	41.3	38.1	2.8	33.6	28.8	27.6
17	28.0	0.9375-20	44.5	41.3	2.8	36.8	32.0	30.7
19	30.7	1.0625-18	49.3	46.0	3.5	40.0	35.2	33.9
21	33.8	1.1875-18	52.4	49.2	3.5	43.2	38.3	37.1
23	37.0	1.3125-18	55.6	52.4	3.5	46.3	41.5	40.2
25	40.2	1.4375-18	58.8	55.6	3.5	51.0	44.7	43.4

MIL-DTL-38999 I Series Receptacles
with PCB contacts

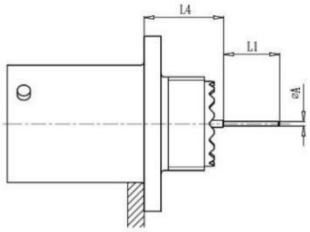
MS27468 receptacle



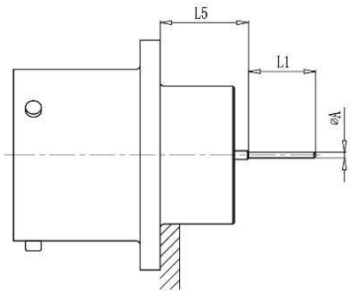
MS27466 receptacle



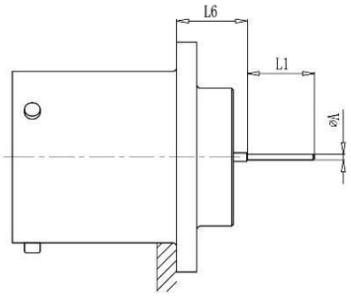
MS27656 receptacle



MS27496 Receptacle



MS27505 Plug

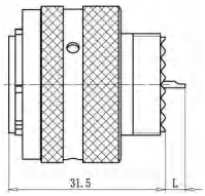


PCB Contacts Size		L1	A
22D	Long PCB Contact	8.5	0.7
	Short PCB Contact	4	
20#	Long PCB Contact	8.5	0.7
	Short PCB Contact	5	
16#	Long PCB Contact	8.5	1.15
	Short PCB Contact	5	

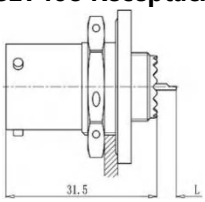
Size with different contact			Shell Size 09-11-13-15-17-19	Shell Size 21-23-25
L2	22D Pin	MAX	10.06	10.06
		MIN	9.06	9.06
	22D Socket	MAX	10.06	10.06
		MIN	8.74	8.74
	20# or 16# Socket or Pin	MAX	10.23	10.23
		MIN	9.24	9.24
L3	22D Pin	MAX	15.08	15.08
		MIN	13.91	13.91
	22D Socket	MAX	15.08	15.08
		MIN	13.58	13.58
	20# or 16# Socket or Pin	MAX	15.25	15.25
		MIN	14.08	14.08
L4	22D Pin	MAX	12.47	13.22
		MIN	11.60	12.35
	22D Socket	MAX	12.47	13.22
		MIN	11.27	12.02
	20# or 16# Socket or Pin	MAX	12.64	13.39
		MIN	11.77	12.52
L5	22D Pin	MAX	11.08	11.08
		MIN	9.91	9.91
	22D Socket	MAX	11.08	11.08
		MIN	9.58	9.58
	20# or 16# Socket or Pin	MAX	11.25	11.25
		MIN	10.08	10.08
L6	22D Pin	MAX	8.47	9.22
		MIN	7.60	8.35
	22D Socket	MAX	8.47	9.22
		MIN	7.27	8.02
	20# or 16# Socket or Pin	MAX	8.64	9.39
		MIN	7.77	8.52

D38999-I Series Slodering Product Size

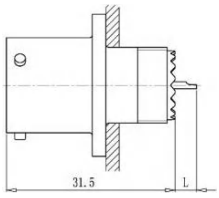
MS27467 Plug



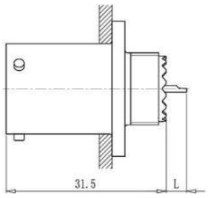
MS27468 Receptacle



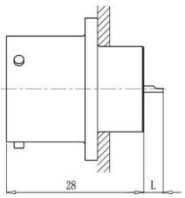
MS27466 Receptacle



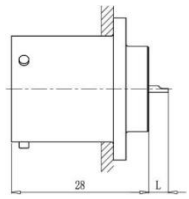
MS27656 Receptacle



MS27496 Receptacle



MS27505 Receptacle



Solder Contact Size	L	Inside diameter of solder wire cup	Maximum Adapter Wire
22D	4	Φ0.9	22
20#	4	Φ1.1	20
16#	4	Φ1.9	16
12#	4	Φ2.9	12
10#	6	Φ3.6	10
8#	6	Φ4.8	8

Note: Coaxial contact no solder contact.

Plug＆Receptacle Protective Coevr

MS 27501 F 11 C L

Series Title

Type

MS27501 ： Plug Protective Cover

MS27502： Receptacle Protective Cover

Material & Finish

B = Cadmium plated Olive Drab

F = Electroless Nickel

E=stainless steel passivation

Shell Size 09-11-13-15-17-19-21-23-25

Chain type

A- No chain

C-stainless steel twisted belt connection

N- stainless steel twisted chain belt ring

R- silk rope strap connecting piece

S-stainless steel wire rope with connecting piece

E- silk rope belt loop

Chain Length

Unmarked - Standard length

L- 127mm

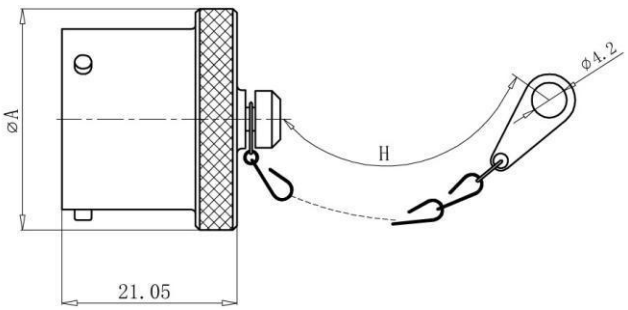
Operating temperature of metal Protective Cover:

Type B ： -65 ℃ ~+175 ℃

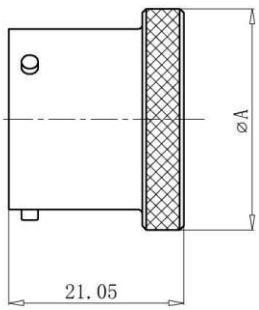
Type F, E ： -65 ℃~+200℃

MS27501 Plug Protective Cover Size

Type C



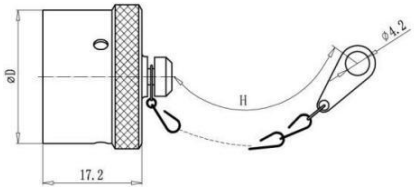
Type A



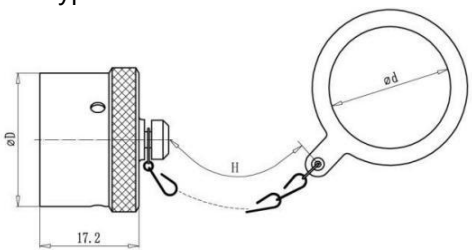
Shell Size	09	11	13	15	17	19	21	23	25
A	18.6	21.6	24.7	28.6	31.7	35.6	38.4	41.7	44.7
H max	76.2	76.2	88.9	88.9	88.9	88.9	101.6	101.6	101.6

MS27502 Receptacle Protective Cover Size

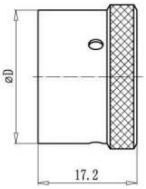
Type C



Type N



Type A



Shell Size		09	11	13	15	17	19	21	23	25
D		19.9	23.1	27.1	30.2	33.2	36.2	39.3	42.5	45.7
d	Min	18.0	21.5	26.0	29.0	32.5	35.5	38.6	42.0	45.0
H	Max	76.2	76.2	88.9	88.9	88.9	88.9	101.6	101.6	101.6

(Note: The protective cover should be ordered separately, not supplied with the connector, and can be customized according to customer requirements)

MIL-DTL-38999 Ⅱ Series Connector

Product introduction

- Comply with GJB599B (MIL-DTL-38999M) Ⅱ series standards
- Bayonet fast connection
- 599 series of the smallest volume, the lightest weight, the shortest shell
- EMI/RFI shielding
- The contact parts can be pressed and unloaded, not prevent oblique insertion, and it is not convenient to insert and remove in small space
- Pins are recommended for sockets in the environment

Application: The product is used for circuit signal connection

Use environment: The electric connector is a lightweight connector, which is suitable for use in occasions where it does not withstand high strength vibration or harsh wind sand and humidity

Technical features

- **Mechanical:**

  Material:

  Shell**:** Aluminum alloy, stainless steel,

  Plating:

  B: Cadmium plating Military green

  E: stainless steel passivation

  F: electroless nickel plating

  Contact : copper alloy surface gold-plated, there are pressing type, soldering type and PCB type

  Mechanical life: ≥500 mating / unmating operations

  Vibration:

  Random vibration ,frequency 100 ~ 1000Hz ,Power spectral density 1g²/Hz

  Shock: 300g during 3ms

- **Electrical**

  Contact resistance and rated current

Contact specification	Working diameter (mm)	Contact resistance mΩ	Rated current A
22D	Φ0.76	≤12	5
20#	Φ1.00	≤5	7.5
16#	Φ1.60	≤2.5	13
12#	Φ2.40	≤1.5	23

  Shielding

  At 100 MHZ ~ 1GHz, the minimum attenuation is 45dB

Voltage resistance: V

Work levels	M	I	II
Sea level	1300	1800	2300
21000m	800	1000	1000

Insulation resistance: Normal conditions ≥5000MΩ

Wet conditions≥100MΩ

Shell continuity: B ≤2.5mV F , FT ≤1.0mV E , TA ≤50mV

- **Environmental**

Temperature range: B: -65 ˚C ~ +175 ˚C

E , F: -65 ˚C ~ +200 ˚C

Salt spray resistance: B: 500h E: 1000h F: 48h

Relative humidity: up to 98% at 40 ˚C

Working height: ≤30480m

How to Build Your Connector Part Number

Type of connector

27473= Plug (Only T type shell)

27484= RFI Plug (Only T type shell)

27472= Front, wall mount receptacle (Only T type shell)

27497= Rear, box mount receptacle (Only T type shell)

27513 = Front, box mount receptacle (Only E type shell)

27508 =Rear, box mount receptacle (Only E type shell)

27474=Jam nut receptacle (Only T type shell)

MS 27473 T 16 F 35 S N – H

Connector series

Shell type

T = With thread,
Accessories can be installed

E = No thread,
Accessories cannot be installed

Shell size

08 ,10,12,14,16,18,20,22,24

Material & Finish

B=Aluminum alloy cadmium plating,Army green

F =Electroless nickel plating on aluminum alloy

E=Stainless Steel

Shell Size & Insert Arrangement

See Insert Arrangement Selection table

Type of soldered contact

(soldered connector only)

H- soldered contacts

Keying

N=Normal Keying

A, B, C, D, E=Alternate Keying

N Can not mark when the contact type is selected for crimping.

N must be mark when other contacts are selected

Contact Style

Crimp& Solder	PCB
P = Crimp pin	PL = PC tail pin contacts,Long PCB pin
S = Crimp socket	PC = PC tail pin contacts,Short PCB pin
	SL = PC tail pin contacts,Long PCB socket
	SC = PC tail pin contacts,Short PCB socket

Note:

GJB599B and MIL-DTL-38999M are identical except for the main name code

Example

MS27497T18F35PN-H: MS series rear socket, tail with thread, can be installed accessories, No. 18 shell, shell plating aluminum alloy chemical,Nickel plated, No. 35 contact, pin contact, sloder, N key position.

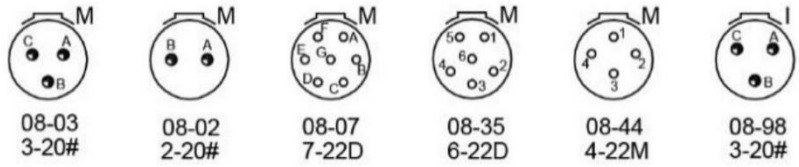
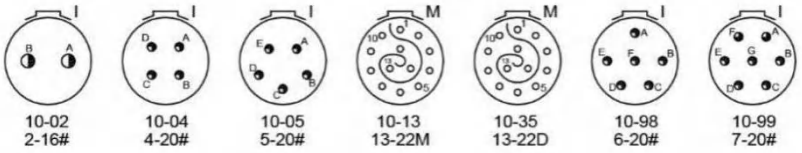
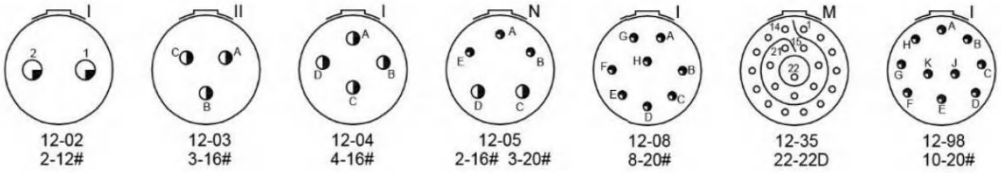
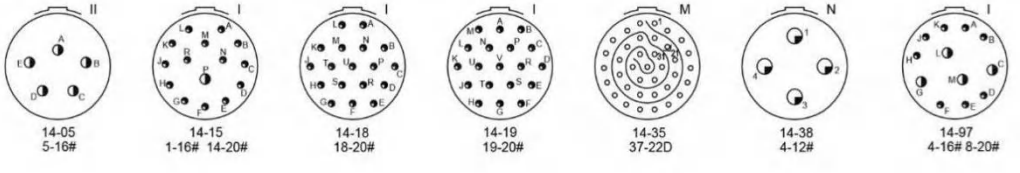
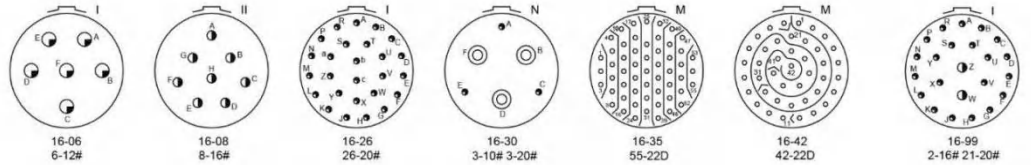
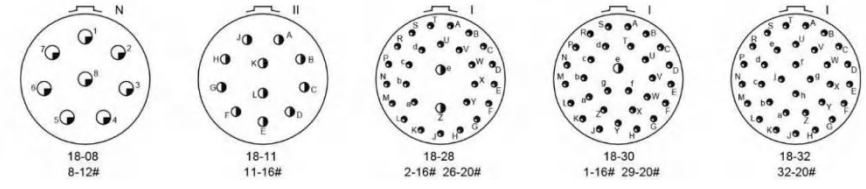
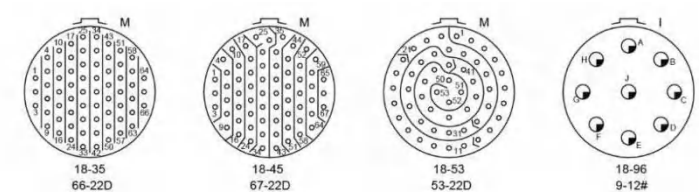
Soldered contacts are only suitable for soldered connectors.

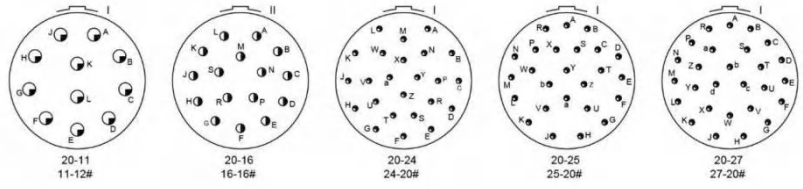
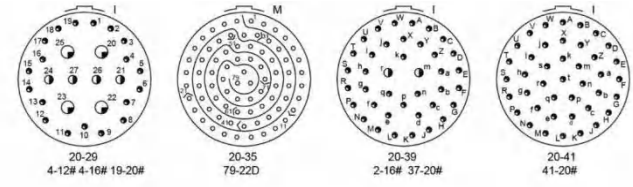
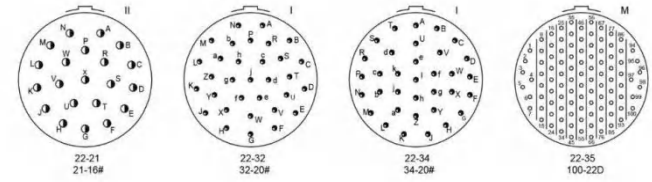
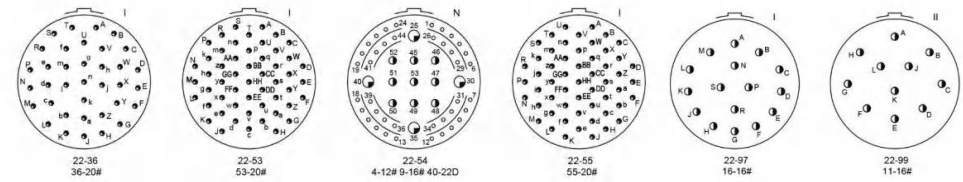
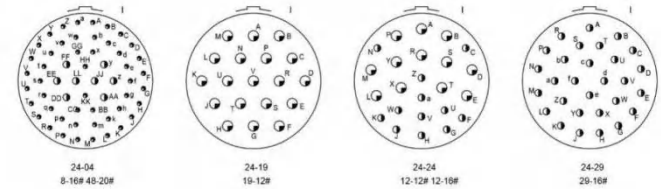
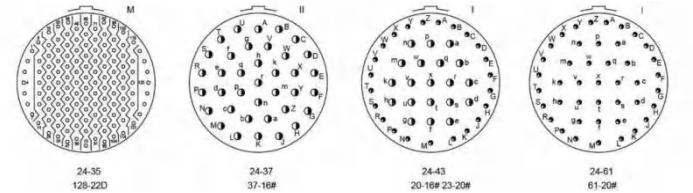
Crimp Contacts

Contact specification	Work diameter	Pin color	Socket color	Inside diameter of crimp	Outer diameter of crime barrel	Conductor section mm2	Adapted USA cable AWG	Adapted cableinsulated outer diameter	Unloading tool code	Crimp tool
22D	Φ0.76	orange-blue-black	orange-green-yellow	0.85	1.20	0.08 0.125 0.2	28 26 24	0.76~1.37	M81969/14-01	YJQ-02
20#	Φ1.00	orange-blue-orange	orange-green-purple	1.17	1.78	0.2 0.3 0.5	24 22 20	1.02~2.11	M81969/14-10	YJQ-02 XCXY-01
16#	Φ1.60	orange-blue-yellow	orange-green- grey	1.68	2.62	0.5 0.8 1.0	20 18 16	1.65~2.77	M81969/14-03	XCXY-01
12#	Φ2.40	orange-blue-green	orange-green-white	2.49	3.84	2.0 3.0	14 12	2.46~3.61	M81969/14-04	XCXY-01

Contact specification	Inside diameter of welded wire cup	Maximum Adapter Wire Gauge (AWG)
22D	Φ0.9	22
20#	Φ1.1	20
16#	Φ1.9	16
12#	Φ2.9	12

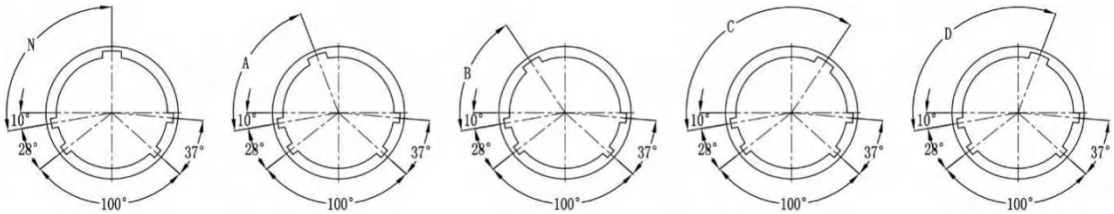
Contact arrangement (pin insulator insertion surface view)

08	
10	
12	
14	
16	
18	 

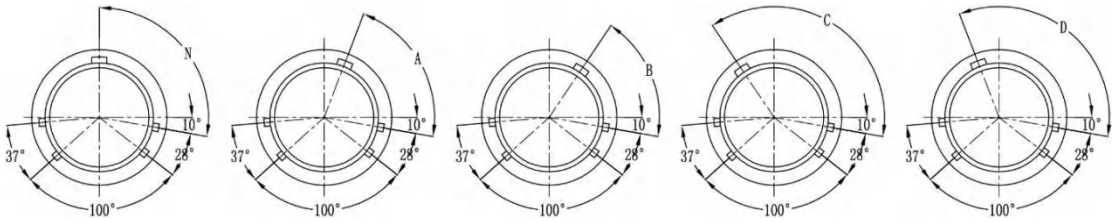
20	 
22	 
24	 

Shell and Keys

Receptacle key Angle



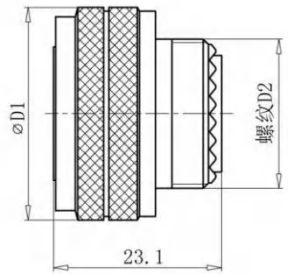
Plug key Angle

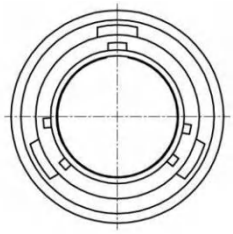


Key Code	08	10	12	14	16	18	20	22	24
N	100	100 °	100 °	100 °	100 °	100 °	100 °	100 °	100 °
A	82°	86°	80°	79°	82°	82°	82°	85°	85°
B	-	72°	68°	66°	70°	70°	70°	74°	74°
C	-	128°	132°	134°	130°	130°	130°	126°	126°
D	118°	114°	120°	121°	118°	118°	118°	115°	115°

Product size

MS27473/MS27484 Plug

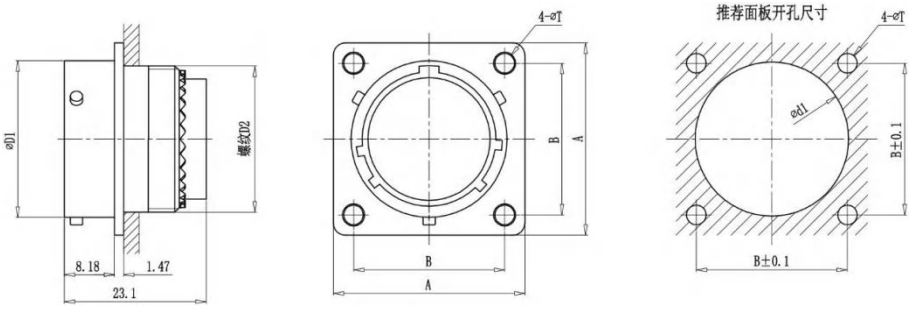




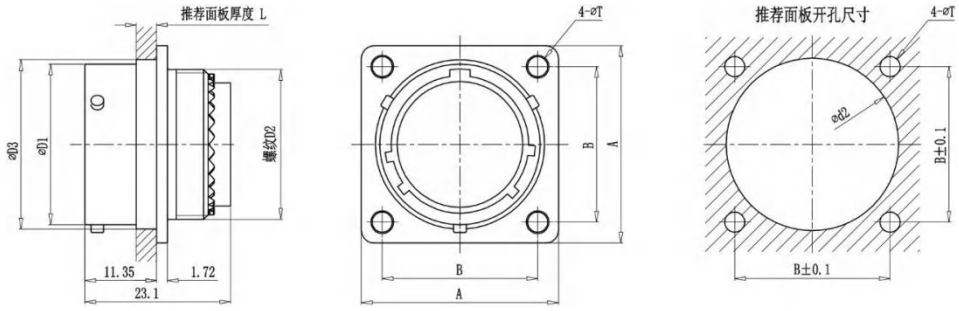
Shell number	D1	Screw thread D2 UNEF-2A
08	18.8	0.4375-28
10	21.5	0.5625-24
12	25.8	0.6875-24
14	29.2	0.8125-20
16	32.3	0.9375-20
18	35.4	1.0625-18
20	38.5	1.1875-18
22	41.7	1.3125-18
24	44.7	1.4375-18

MS27472/MS27497
Wall type square plate receptacle

MS27472 Front, wall mount receptacle



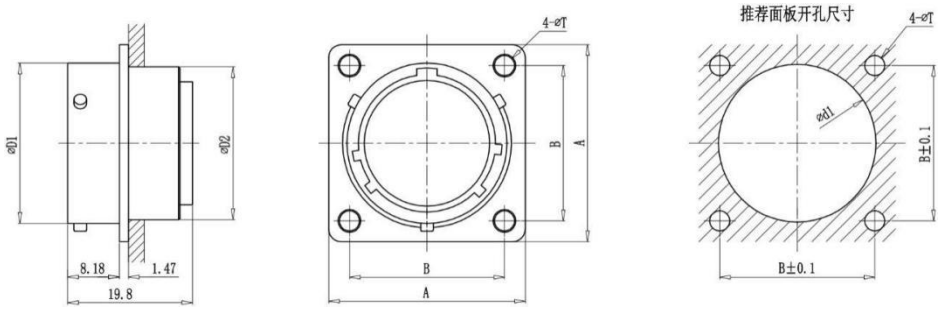
MS27497 Rear, wall mount receptacle



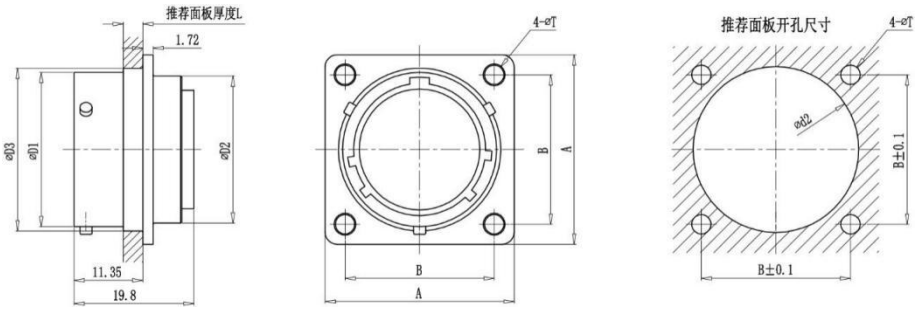
Shell no	D1	Screw thread D2UNEF-2A	D3	L max	A	B	T	d1	d2
8	12.00	0.4375-28	13.20	2.0	21.00	15.09	3.2	12.5	14.2
10	15.00	0.5625-24	16.14	2.0	24.10	18.26	3.2	15.5	17.5
12	19.05	0.6875-24	20.50	2.0	26.50	20.62	3.2	19.5	21.3
14	22.23	0.8125-20	23.60	2.0	28.90	23.01	3.2	21.5	25.0
16	25.4	0.9375-20	26.80	2.0	31.21	24.61	3.2	25.0	27.3
18	28.58	1.0625-18	30.00	2.0	33.60	26.97	3.2	28.0	31.3
20	31.75	1.1875-18	33.20	2.5	36.80	29.36	3.2	31.5	34.5
22	34.93	1.3125-18	36.35	2.5	40.00	31.75	3.2	34.5	37.5
24	38.10	1.4375-18	39.5	2.5	43.10	34.93	3.9	37.5	40.6

MS27513 & MS27508
Box mount receptacle

MS27513 Front, box mount receptacle

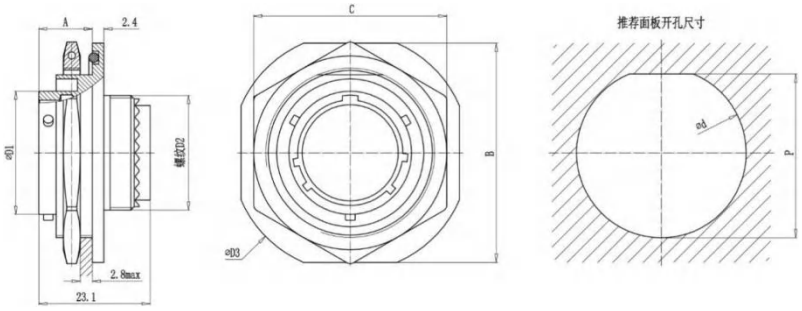


MS27508= Rear, box mount receptacle



Shell no	D1	D2	D3	L max	A1	A	B	T	d1	d2
08	12.00	11.51	13.20	2.0	16.1	21.00	15.09	3.2	12.5	14.2
10	15.00	14.68	16.14	2.0	16.1	24.10	18.26	3.2	15.5	17.5
12	19.05	17.86	20.50	2.0	16.1	26.50	20.62	3.2	19.5	21.3
14	22.23	21.03	23.60	2.0	16.1	28.90	23.01	3.2	21.5	25.0
16	25.40	24.21	26.80	2.0	16.1	31.21	24.61	3.2	25.0	27.3
18	27.58	26.97	30.00	2.0	16.1	33.60	26.97	3.2	28.0	31.3
20	31.75	30.18	33.20	2.5	15.3	36.80	29.36	3.2	31.5	34.5
22	34.93	33.32	36.35	2.5	15.3	40.00	31.75	3.2	34.5	37.5
24	38.10	36.53	39.53	2.5	15.3	43.10	34.93	3.9	37.5	40.6

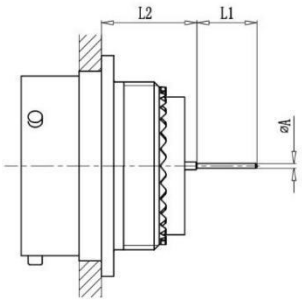
MS27474 =Jam nut receptacle



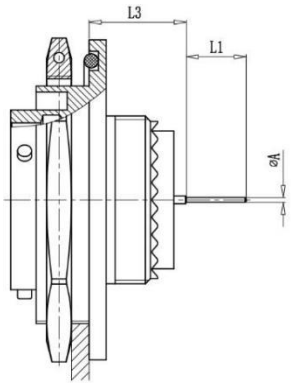
Shell no	D1	Screw thread D2 UNEF-2A	D3	B	A	C	d	P
08	12.00	0.4375-28	34.95	31.75	11.1	27.9	22.46	21.08
10	15.00	0.5625-24	38.10	34.95	11.1	30.5	25.58	24.26
12	19.05	0.6875-24	41.28	38.10	11.1	33.6	28.80	27.53
14	22.23	0.8125-20	44.45	41.28	11.1	36.8	32.01	30.73
16	25.40	0.9375-20	49.23	45.24	11.1	40.0	35.15	33.86
18	28.58	1.0625-18	51.21	48.00	11.1	43.2	38.28	37.06
20	31.75	1.1875-18	54.38	51.21	11.8	46.3	41.50	40.03
22	34.93	1.3125-18	57.53	54.36	11.8	51.0	44.68	43.21
24	38.10	1.4375-18	60.71	57.53	11.8	54.4	47.85	46.38

MIL-DTL-38999 II Series Receptacles with PCB contacts

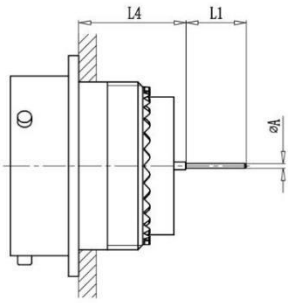
MS27497 receptacle



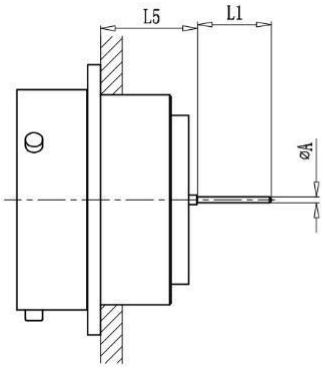
MS27474 receptacle



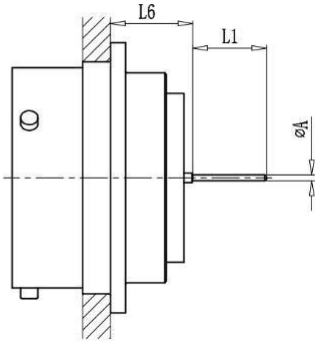
MS27472 receptacle



MS27513 Receptacle



MS27508 Plug

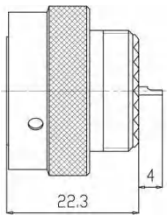


PCB Contacts Size		L1	A
22D	Long PCB Contact	8.5	0.7
	Short PCB Contact	4.0	
20#	Long PCB Contact	8.5	0.7
	Short PCB Contact	5.1	
16#	Long PCB Contact	8.5	1.15
	Short PCB Contact	5.1	

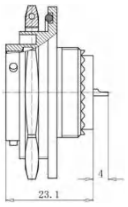
Size with different contact		Shell Size 08-10-12-14-16-18	Shell Size 20-22-24
L2	16#, 20#, 22D Pin or 22D Socket	13.40~13.60	13.40~13.60
L3	16#, 20#, 22D Pin or 22D Socket	13.65~13.85	12.95~13.15
L4	16#, 20#, 22D Pin or 22D Socket	15.10~15.30	15.10~15.30
L5	16#, 20#, 22D Pin or 22D Socket	11.10~11.30	11.10~11.30
L6	16#, 20#, 22D Pin or 22D Socket	9.40~9.60	9.40~9.60

D38999-II Series Slodering Product Size

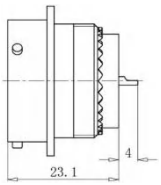
MS27473 Plug



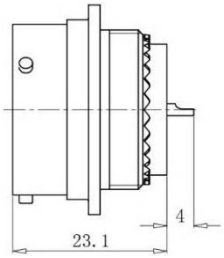
MS27474 Receptacle



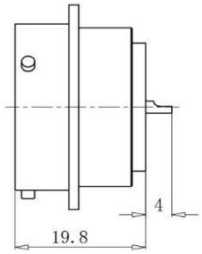
MS27472 Receptacle



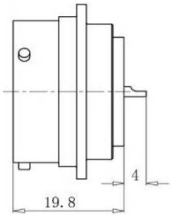
MS27497 Receptacle



MS27513 Receptacle



MS27508 Receptacle



Plug＆Receptacle Protective Coevr

MS 27510 F 11 C L

Series Title

Type

MS27510 ： Plug Protective Cover

MS27511： Receptacle Protective Cover

Material & Finish

B = Cadmium plated Olive Drab

F = Electroless Nickel

E=stainless steel passivation

Shell Size 08-10-12-14-16-18-20-22-24

Chain type

A- No chain

C-stainless steel twisted belt connection

N- stainless steel twisted chain belt ring

R- silk rope strap connecting piece

S-stainless steel wire rope with connecting piece

E- silk rope belt loop

Chain Length

Unmarked - Standard length

L- 127mm

M- 152.4 mm (Only available for JY27510)

N- 177.8 (Only available for JY27510)

Operating temperature of metal Protective Cover:

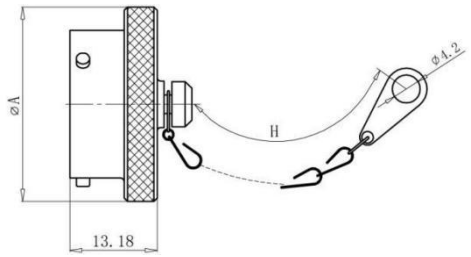
Type B ： -65 ℃ ~+175 ℃

Type F, E ： -65 ℃~+200℃

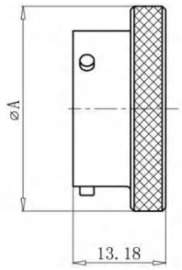
(Note: The Protective Cover should be ordered separately, not supplied with the connector, and can be customized according to customer requirements)

MS27510 Plug Protective Cover Size

Type C



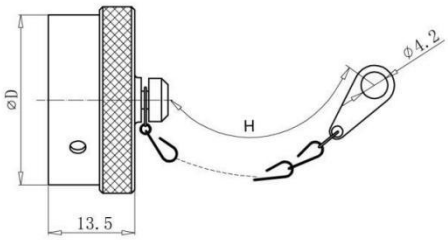
Type A



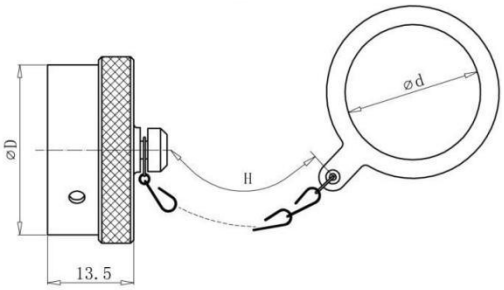
Shell Size	08	10	12	14	16	18	20	22	24
A	18.2	21.5	25.4	28.7	31.7	35	38.1	41.4	44.4
H max	76.2	76.2	88.9	88.9	88.9	88.9	101.6	101.6	101.6

MS27511 Receptacle Protective Cover Size

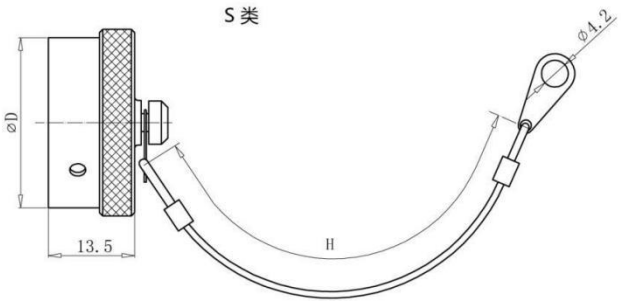
C类



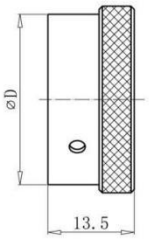
N类



S类



A类



Shell Size		08	10	12	14	16	18	20	22	24
D	Max	16.0	19.0	23.5	26.7	29.8	33.1	36.5	39.5	42.9
d	Min	22.8	26.0	29.0	32.5	35.5	38.6	42.0	45.0	48.5
H	Max	76.2	76.2	88.9	88.9	88.9	88.9	101.6	101.6	101.6

Standard tail accessories (for GJB599 Series I and Series II electrical connectors)

This type of attachment conforms to the national military standard GJB1784(equivalent to the United States military standard MIL-C-85049)

Note:

1. There is no difference between "J1784" and "J1784A" mentioned in the attachment model.

2. At least one of the following anti-loosening measures should be done when the accessories are used:

① Pass the fuse through the safety hole to prevent loosening;

② Apply thread glue on the tail thread of the product and tighten the connecting nut to prevent loosening;

③ Use the heat shrink tube to prevent the integral heat shrink of the attachment.

3. Accessories with tightening screws should be tightened after applying thread glue on the tightening screws.

4, if the cable accessories suitable for the product with No. 8 contact, need to choose a longer cable accessories such as J1784/49H type or J1784/18A type, to avoid contact

The piece positioner interferes with the cable attachment.

5. The following table lists the corresponding table of GJB599 series welding and crimping products and the functional classification of cable accessories, due to the change of our company at this stage.There are many types of products and modified accessories, can not be listed one by one, the content of this table is for reference only, please contact our company for details

Connector type	Adapted cable accessory function type	The adapter cable accessories type
GJB599Ⅰ, Ⅱ series Crimp type connector	Unable to clamp cables and no shielding accessories	1、J1784/27、HA type
	Able to clamp cables and no shielding accessories	1、J1784/49、HB type
		2、J1784/49-xx（short）
		3、J1784/47、HC type
	Unable to clamp cables and with shielding accessories	1、TJ1784/62、HD type
		2、J1784/62
		3、J1784/85
		4、J1784/87
		5、JY599 Ⅰ-FJA00
		6、JY599 Ⅰ-FJA90
		7、JY599 Ⅰxx FJC00
		8、JY599 Ⅰxx FJE00

	Able to clamp cables and with shielding accessories	1、TJ1784/62-xxB、HE type
		2、TJ1784/62-xxC-xx
		3、J1784/18A series
GJB599Ⅰ, Ⅱ series Soldered type connector	Unable to clamp cables and no shielding accessories	1、J1784/27、HA type
		2、J1784/47、HC type
	Unable to clamp cables and with shielding accessories	1、TJ1784/62、HD type
		2、J1784/62
		3、J1784/85
		4、J1784/87
		5、JY599 Ⅰ-FJA00
		6、JY599 Ⅰ-FJA90
	Able to clamp cables and with shielding accessories	1、TJ1784/62-xxB、HE type
		2、TJ1784/62-xxC-xx
		3、J1784/18A series

GJB1784 Part Number

Type:

Type 27-A tail nuts (no cable clamping and no shielding accessories)

Type 49-B straight cable clamp (clamp cable without shielding accessories)

Type 47-C Bent cable clamp (clamp cable without shielding accessories)

Type 62-D shielded end tail attachment (" T "before basic component number) (no clamp cable with shielding accessories)

Type 62 Heat shrink sleeve tail attachment (no clamp cable with shielding accessories)

J1784 / 49 - 16 S

Series Main Name

Shell number: 08 10 12 14 16 18 20 22 24

Suitable for GJB599Ⅰ series shell No. 09 11 13 15 17 19 21 23 25

Suitable for GJB599 II series shell No. 08 10 12 14 16 18 20 22 24

Shell coating:

W - Cadmium plating military green

N - Nickel plating

S - stainless steel

Note:

1, the national military standard GJB 1784 and the US military standard MIL-C-85049 model name, except for the basic component number is different, the rest are exactly the same. GJB1784 The basic component number of the MIL-C-85049 is "J1784", and the main designation of the MIL-C-85049 is "M85049", which is interchangeable.

2. The shell number of the above cable accessories should be even, and odd numbers are strictly prohibited

Industry Product naming

HA - S 16

Type

HA - cylindrical rear attachment

HB - Straight clip type rear attachment

HC-90 ° bent clamp wire type rear attachment

HD - Shielded rear attachment

HE - Straight clip shielded rear attachment

Shell coating:

W - Cadmium plating Army green

N - nickel plating

S - Stainless steel

Attachment shell number: 08 1012 14 16 18 22 24

Suitable for GJB599Ⅰ series shell number 09 11 13 15 17 19 21 23 25

Suitable for GJB599Ⅱ series shell number 08 10 12 14 16 18 20 22 24

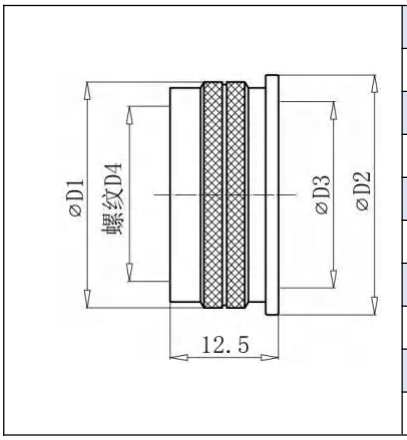
GJB1784 Type of accessories	Type of accessories in the industry
J1784/27-*W	HA-B*
J1784/27-*N	HA-F*
J1784/49-*W	HB-B*
J1784/49-*N	HB-F*
J1784/47-*W	HC-B*
J1784/47-*N	HC-F*
TJ1784/62-*W	HD-B*
TJ1784/62-*N	HD-F*
TJ1784/62-*WB	HE-B*
TJ1784/62-*NB	HE-F*

(The "*" in the table indicates the shell number, it is recommended that users prioritize ordering according to the GJB1784 accessory model, and if necessary, order according to the accessory model in the industry.)

Overall dimensions

J1784/27(HA type)Tail nut

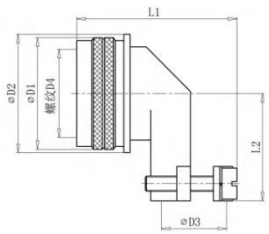
Anti-rotating accessories, tight hoop grommet , to ensure the environmental resistance of the connector, can not clamp the cable, used for general environment conditions.



Shell number	D1	D2	D3 max	Thread D4
08	16.5	17.6	7.9	0.4375-28
10	19.5	20.6	10.8	0.5625-24
12	22.5	23.6	13.6	0.6875-24
14	26.5	27.6	16.9	0.8125-20
16	29.5	30.3	20.1	0.9375-20
18	32.5	33.3	22.4	1.0625-18
20	36	36.8	25.6	1.1875-18
22	38.5	39.3	28.8	1.3125-18
24	41.7	42.3	31.9	1.4375-18

J1784/47-(HC type) Bent cable clamp

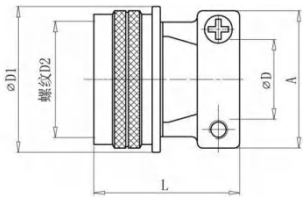
Anti-turning, cable 90° clamping cable accessories, can tighten the hoop to seal the cable body, 90° clamping cable function, to ensure the connector environmental resistance, for cable tension Occasion.



Shell number	D1	D2	D3 max	Thread D4	L1 max	L2 max
08	16.5	17.6	3.2~6.4	0.4375-28	29.0	25.0
10	19.5	20.6	4.0~9.5	0.5625-24	32.0	26.0
12	22.5	23.6	4.8~11.1	0.6875-24	33.5	27.5
14	26.5	27.6	5.5~14.3	0.8125-20	36.5	31.0
16	29.5	30.3	6.4~15.9	0.9375-20	38.5	32.5
18	32.5	33.3	7.9~19.1	1.0625-18	41.5	34.0
20	36	36.8	9.5~22.2	1.1875-18	44.5	34.5
22	38.5	39.3	10.3~23.8	1.3125-18	46.0	36.5
24	41.7	42.3	14.3~25.4	1.4375-18	48.0	43.5

J1784/49- Straight cable clamp (clamp cable without shielding accessories)

Anti-turning, clamping cable accessories, can tighten the hoop to grommet , clamping cable function, to ensure the environmental performance of the connector, for cable tension occasions.

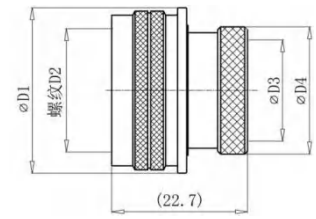


Shell number	D1	D2	D	A	L
08	17.6	0.4375-28	2.49~5.94	20.0	23.6
10	20.6	0.5625-24	3.87~5.94	22.0	24.6
12	23.6	0.6875-24	4.83~8.33	24.5	26.7
14	27.5	0.8125-20	6.60~11.61	26.0	27.5
16	30.3	0.9375-20	7.19~15.60	30.5	27.5
18	33.3	1.0625-18	8.26~16.10	35.0	29.0
20	36.8	1.1875-18	8.71~17.73	38.0	30.4
22	39.3	1.3125-18	9.68~20.90	41.0	32.4
24	42.3	1.4375-18	10.62~21.66	44.0	34.4

J1784/62- Heat shrink casing tail accessories

Anti-turning, compression screen accessories. It can tighten the hoop to grommet , provide the connection function of shielding network and tail accessories, and ensure the environmental resistance and electromagnetic screen of the connector

Shielding performance, can not clamp the cable, used for cable tension is small occasions.

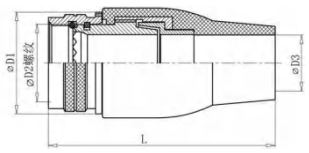


Type	D1	Screw thread D2	D3	D4
J1784/62-08N	16.5	0.4375-28	7.9	11.6
J1784/62-10N	19.5	0.5625-24	10.9	14.7
J1784/62-12N	22.5	0.6875-24	13.7	17.6
J1784/62-14N	26.5	0.8125-20	16.9	21.2
J1784/62-16N	29.5	0.9375-20	20.1	24.4
J1784/62-18N	32.5	1.0625-18	22.5	26.4
J1784/62-20N	36.0	1.1875-18	25.4	30.9
J1784/62-22N	38.5	1.3125-18	28.5	33.8
J1784/62-24N	41.7	1.4375-18	31.6	36.9

J1784/01A- Ground clamp tail attachment (shielded, unclamped cable attachment)

Anti-turning, compression screen accessories. It can tighten the hoop to seal grommet , provide the connection function of shielding network and tail accessories, and ensure the environmental resistance and electromagnetic screen of the connector

Shielding performance, can not clamp the cable, used for cable tension is small occasions.



Shell number	D1	Screw thread D2	D3	L
08	17.6	0.4375-28	7.0	53.0
10	20.6	0.5625-24	10.0	53.0
12	23.6	0.6875-24	13.0	53.0
14	27.5	0.8125-20	15.0	73.0
16	30.3	0.9375-20	18.0	73.0
18	33.3	1.0625-18	20.0	73.0
20	36.8	1.1875-18	23.5	73.0
22	39.3	1.3125-18	26.5	73.0
24	42.3	1.4375-18	29	73.0

J1784/18A Product naming

Shell number: 09 11 13 15 17 19 21 23 25

Suitable for GJB599Ⅰ series shell No. 09 11 13 15 17 19 21 23 25

Suitable for GJB599 Ⅱ series shell No. 08 10 12 14 16 18 20 22 24

J1784 / 18A - 17 N 04 A

Series Main Name

Type:

Type 18-A 18A- Straight shielded cable clamp (for GJB599Ⅰ, Ⅱ series)

Shell coating:

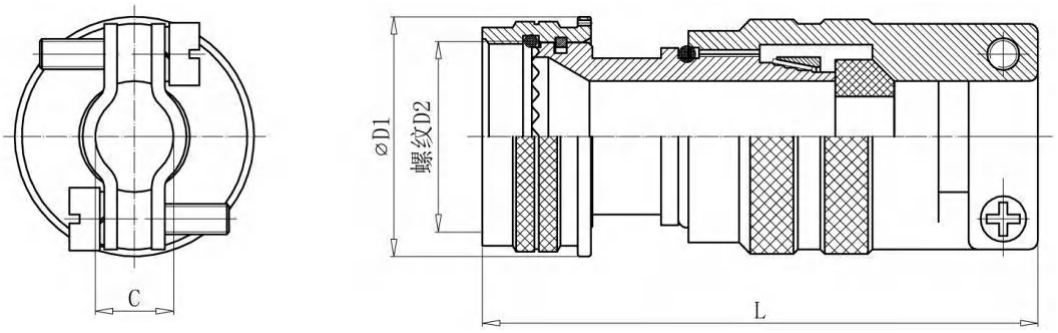
W - Cadmium plating military green

N - Nickel plating

S - stainless steel

Outlet diameter number: Select according to Table 1 and Table 2

Length coding: See Table 3



Anti-turning, compression screen and clamp cable accessories, can tighten the hoop to grommet , provide the screen and tail accessories connection function, to ensure the connector of high resistance environment

Performance and electromagnetic shielding performance, used in harsh environments, the cable accessories have different lengths, can be suitable for high and low frequency mixed loading and other need longer length accessories occasions,

The attachment recommends the use of finished cables

Table 1

Shell number	Outgoing wire No	D1	Thread D2
09	01~02	16.5	0.4375-28
11	01~03	19.5	0.5625-24
13	02~04	22.5	0.6875-24
15	02~05	26.5	0.8125-20
17	02~06	29.5	0.9375-20
19	03~07	32.5	1.0625-18
21	03~08	36.0	1.1875-18
23	03~09	38.5	1.3125-18
25	04~10	41.7	1.4375-18

Table 2

Outgoing wire No	Suitable wire diameter range C
01	1.57~3.18
02	3.18~6.35
03	6.35~9.53
04	9.53~12.7
05	12.7~15.88
06	15.88~19.05
07	19.05~22.23
08	22.23~25.4
09	25.4~28.58
10	28.58~31.75

Table 3

Shell number	Length NO.	L
09~25	Standard (omitted not marked)	64.1
09~25	A	88.1
15~25	B	113.5
21~25	C	138.9

319/001A Product naming

319F S 001A M 16 06

Series Main Name

Design Number

Type:

A- curved 90°

S- straight type

Shell coating:

B - Cadmium plating military green

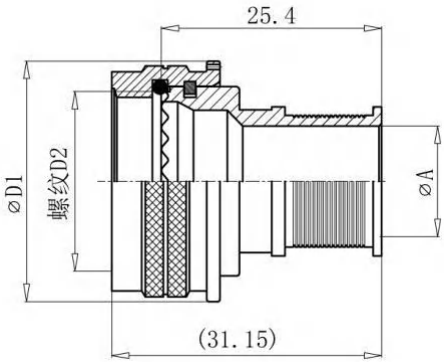
M - Nickel plating

NF - Electroless nickel plating after cadmium plating

Shell number:

	08 10 12 14 16 18 20 22 24
Suitable for GJB599 I series shell No.	09 11 13 15 17 19 21 23 25
Suitable for GJB599 II series shell No.	08 10 12 14 16 18 20 22 24

Outlet diameter number: See Table 1 for details



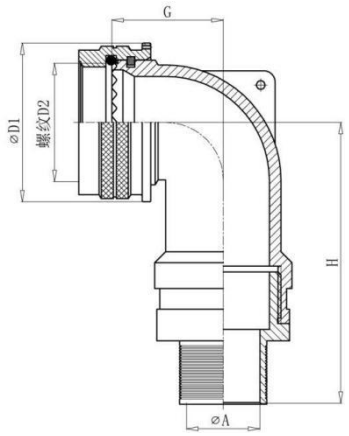


Table 1

Outlet Wire number	Outlet Wire A
1	4.8
2	6.4
3	7.9
4	9.5
5	11.1
6	12.7
7	14.3
8	15.9
9	17.5
10	19.1
11	20.6
12	22.2
13	23.8
14	25.4
15	31.8

Table 2

Shell number	D1	Screw thread D2	G max	H max
08	16.5	M12×1.0	14.7	43.9
10	19.5	M15×1.0	17.1	47.0
12	22.5	M18×1.0	17.5	47.5
14	26.5	M22×1.0	19.8	49.3
16	29.5	M25×1.0	24.5	51.6
18	32.5	M28×1.0	26.8	55.9
20	36.0	M31×1.0	26.8	55.9
22	38.5	M34×1.0	30.6	58.7
24	41.7	M37×1.0	30.6	58.7

Special tail accessories (for GJB599 Series I and Series II electrical connectors)

This type of tail attachment is especially suitable for the clamping of shielded cables with shielding nets, and is divided into two categories: straight and curved. The accessory is optional with alloy memory

Ti-Ni alloy memory ring is heated to shrink, and the shielding net is tight at the end of the attachment, which truly achieves 360° electromagnetic shielding.

Note: Ti-Ni alloy memory ring heating shrinkage method: can use a heat gun heating, about 45 seconds to 1 minute, when the temperature indicator color on the memory ring is green

When it turns black, the memory ring has shrunk. At this time, the temperature of the ring is about 165°C. Stop heating. Pay attention to ensure that the memory ring is heated evenly when heating.

Product naming

J1784/85, J1784/87 outer shielding tail accessories (shielding without clamping cable accessories)

J1784 / 85 - 10 N A 03

Series Main Name

Type:

85-straight type

86-curved type (GJB599Ⅰ, Ⅱ series general)

Shell number:

	08 10 12 14 16 18 20 22 24
Suitable for GJB599Ⅰ series shell No.	09 11 13 15 17 19 21 23 25
Suitable for GJB599 II series shell No.	08 10 12 14 16 18 20 22 24

Shell coating:

W - cadmium plated army green N - nickel plating

S-stainless steel FT- Aluminum alloy plated with satin cadmium

Ta-titanium alloy (Type 85 only)

Titanium-nickel rings:

No marks - no titanium-nickel rings A-Optional titanium-nickel ring

Outlet diameter or titanium nickel ring specifications:

Mark the diameter of the outlet when there is no titanium-nickel ring

Note the specifications of Ti-Ni rings when matching Ti-Ni rings]

JY599 I-FJA00, JY599 I-FJA90 External shielded tail accessories (shielded unclamped cable accessories)

JY599 I 13 FJA 00 F A 03

Series Main Name

Type: I (GJB599Ⅰ, Ⅱ series general)

Shell number:

	09 11 13 15 17 19 21 23 25
Suitable for GJB599Ⅰ series shell No.	09 11 13 15 17 19 21 23 25
Suitable for GJB599 II series shell No.	08 10 12 14 16 18 20 22 24

Accessories type: FJA, FJC, FJE

Organization form:

00- Straight tail accessories

90-90°bending type accessories

Shell coating:

W - cadmium plated army green

N - nickel plating

S-stainless steel

FT- Aluminum alloy plated with satin cadmium

Ta-titanium alloy (Type 85 only)

Titanium-nickel rings:

No marks - no titanium-nickel rings A-Optional titanium-nickel rings

Outlet diameter or titanium nickel ring specifications:

Mark the diameter of the outlet when there is no titanium-nickel ring

Note the specifications of Ti-Ni rings when matching Ti-Ni rings

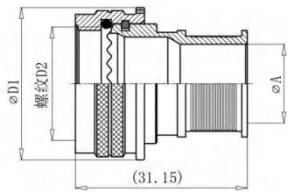
Note:

1, this type of accessories for harsh environment, do not need to disassemble frequently occasions, can achieve internal and external shielding.

2, J1784/85, J1784/87 and JY599 I-FJA00, JY599 I-FJA90 the same, only named different models.

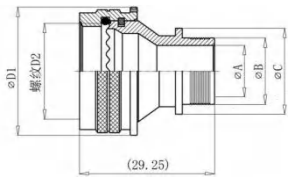
Overall dimension

Straight accessories (J1784/85 or JY599 I-FJA00)



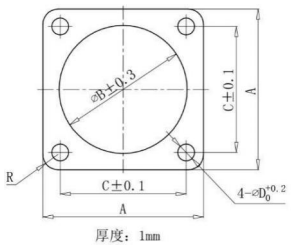
Shell number	D1	Screw thread D2	A (02 Outlet hole)	A (03 Outlet hole)
08	17.6	0.4375-28	N/A	6.4
10	20.6	0.5625-24	N/A	7.9
12	23.6	0.6875-24	7.9	11.1
14	27.5	0.8125-20	11.1	14.3
16	30.3	0.9375-20	12.7	15.9
18	33.3	1.0625-18	15.9	19.1
20	36.8	1.1875-18	15.9	20.6
22	39.3	1.3125-18	17.5	23.8
24	42.3	1.4375-18	19.1	25.4

JY599 I **FJC00 (Shielded without clamping cable accessories)



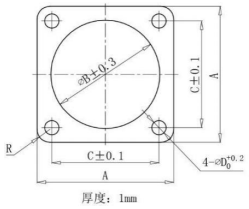
Shell number	D1	Screw thread D2	A	B	C
09	17.6	0.4375-28	6.6	9.3	13.3
11	20.6	0.5625-24	8.3	11	15
13	23.6	0.6875-24	10	12.7	16.6
15	27.5	0.8125-20	11.1	14.3	18.5
17	30.3	0.9375-20	13.1	15.9	19.8
19	33.3	1.0625-18	16.2	19	23
21	36.8	1.1875-18	16.2	19	23
23	39.3	1.3125-18	19.5	22.2	26.2
25	42.3	1.4375-18	19.5	22,2	26.2

599-I square plate rubber pad



Shell number	A	B	C	D	R
09	23.9	0.4375-28	18.26	3.3	3.2
11	26.3	0.5625-24	20.62	3.3	3.2
13	28.7	0.6875-24	23.01	3.3	3.2
15	31.1	0.8125-20	24.61	3.3	3.2
17	33.4	0.9375-20	26.97	3.3	3.2
19	36.6	1.0625-18	29.36	3.3	3.2
21	39.8	1.1875-18	31.75	3.3	3.2
23	43.0	1.3125-18	34.93	3.8	3.7
25	46.1	1.4375-18	38.10	3.8	3.7

599-II square plate rubber pad



Shell number	A	B		C	D	R
		Square plate rubber pad	Conductive rubber pad			
08	21.1	13.4	13.4	15.09	3.3	3.2
10	24.2	16.3	16.3	18.26	3.3	3.2
12	26.6	21.5	21.5	20.62	3.3	3.2
14	29.0	23.8	24.7	23.01	3.3	3.2
16	31.3	27.0	27.0	24.61	3.3	3.2
18	33.7	30.2	31.0	26.97	3.3	3.2
20	36.9	33.4	34.2	29.36	3.3	3.2
22	40.1	36.5	37.4	31.75	3.3	3.2
24	43.2	39.7	40.5	34.93	4.1	4.0

MIL-DTL-38999 III Series Connector

Product introduction

- Comply with GJB599B (MIL-DTL-38999M) III series standards
- Quick connection with triple thread and anti - loose mechanism
- 599 series of the smallest volume, the lightest weight and contact with high density
- EMI/RFI shielding
- The contact crimp can be unloaded, and Anti - oblique insertion of the pin
- With high strength vibration characteristics at high temperatures, it can be suitable for harsh wind sand and tide.Use in wet situations
- The holes of 12# and 16# contact parts can be equipped with optical fiber contact parts
- The holes of 12#, 10# and 8# contact parts can be equipped with coaxial and shielded contacts
- With stainless steel shell, aluminum alloy shell and a variety of coatings
- With high strength vibration characteristics at high temperatures, it can be suitable for harsh wind sand tide and wet situations.

Application: The product is used for circuit signal connection
Application environment: The product is used in complex environment such as strong vibration, rain, wind sand and humidity

Technical features

- **Mechanical**
  Material:
  Shell: Aluminum alloy, stainless steel, titanium alloy
  Insulator: thermoplastic
  Grommet and sealing ring: silicone rubber
  Coating:
  W: Olive drab cadmium
  F: nickel plating
  Class K: stainless steel
  FT: Aluminum alloy coated with satin cadmium
  TA: Titanium alloy
  Contact : copper alloy surface gold-plated, there are pressing type, soldering type and PCB type
  Mechanical life: ≥500 mating / unmating operations
  Shock: 300g during 3ms

Vibration:

Sine: 60g with temperature cycle and analog attachment (36h)

Random: At high temperature, the frequency is 100 ~ 1000Hz, the power spectral density is $1g^2/Hz$, corresponding to the root-mean-square value of 41.7g

At ambient temperature: frequency 100-1000Hz Power spectral density $5g^2/Hz$, corresponding to root-mean-square value 49.5g

Electrical

Voltage resistance: V

Work levels	M	N	I	II
Sea level	1300	1000	1800	2300
21000m	800	600	1000	1000

Note: Different contact arrangements have different working levels, see the upper right corner of the contact arrangement mark.

Contact resistance and rated current:

Contact specification	Working diameter (mm)	Contact resistance mΩ	Rated current A
22D	Φ0.76	≤12	5
20#	Φ1.00	≤5	7.5
16#	Φ1.60	≤2.5	13
12#	Φ2.40	≤1.5	23
10#	Φ3.15	≤1.0	40

Insulation resistance: ≥5000MΩ (500VDC)

Electrical conductivity: W : 2.5mΩ F, FT : 1.0mΩ K, TA : 10mΩ

Electromagnetic interference shielding:

Minimum attenuation of 85dB (F type, W type) at 100MHz~1GHz,

65dB (F type) and 50dB (W type) at 1GHz~10GHz.

8# dual coaxial contacts: Frequency bandwidth of 0~20MHz

Rated voltage: Maximum of 500VAC, 125VAC at 21000 meters.

Voltage drop: Inner contact and intermediate contact at 1A ≤55mV, outer contact at 12A ≤ 75mV.

- **Environmental**

  Temperature range:

  W: -65 ˚C ~ +175 ˚C　　F、K、FT、TA: -65 ˚C ~ +200 ˚C

- **Salt spray resistance:**

  W: 500h　　K、TA: 1000h　　F: 48h /96h　　FT：96h

  Seal: The plug connector meets the requirements of MIL-DTL-38999M low pressure impregnation

  Humid heat: according to MIL-DTL-38999M: 10 cycles in 24 hours

  Liquid resistance: Resistant to a variety of fuels, coolants, solvents

How to Build Your Connector Part Number

Material & Finish

W- Aluminum alloy cadmium plated army green

FT- Aluminum alloy plated with satin cadmium

F- aluminum alloy nickel plating

Ta-titanium alloy

K-stainless steel

D38999 / 20 W B 35 P N –H –M1

Connector series

Type of connector

20- Wall mount receptacle

24- Jam nut receptacle

26-Shielded plug

(All three types can install rear accessories)

Shell size A-J

09	11	13	15	17	19	21	23	25
A	B	C	D	E	F	G	H	J

Shell Size & Insert Arrangement

See Insert Arrangement Selection table

Contact Style

P = pin,Crimp& Solder

S = socket,Crimp& Solder

PL = Long PCB pin

PC =Short PCB pin

SL =Long PCB socket

SC =Short PCB socket

A- appropriative pin contact

Special contacts:

M1-16# Coaxial contact

M2-12# Coaxial contact

M3-12# Shielded contacts

M4-8# Power contact

M5-8# Single Coaxial contact

M6-8# Concentric Twinax contact

M7-8# Double contact

M8-8# Quadrax contact

Type of soldered contact

(soldered connector only)

H-soldered contacts

Keying

N=Normal Keying

A, B, C, D, E=Alternate Keying

Note:

1. GJB599B and MIL-DTL-38999M are identical except for the main name code.
2. Identification number A and B are used to indicate that the electrical connector uses contacts different from the non-standard configuration of GJB1611 (such as shielding, coaxial, fiber optic contacts, etc.).
3. the connector sealing material is fluorine silicone rubber (in the original PN at the end of C1, when there are high oil resistance requirements,
4. add C2 at the end of the PN, when the product needs to support the conductive square plate rubber pad.

Example of PN

J599/20kf18pn-m8: J599 series square socket, stainless steel shell, 19# shell, 18 contact point, contact pin, N key position, 8# four-difference contacts.

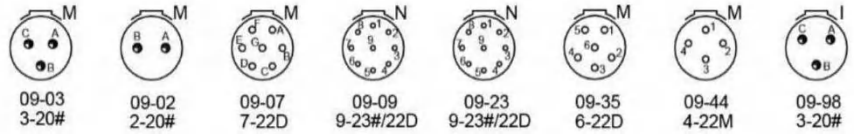
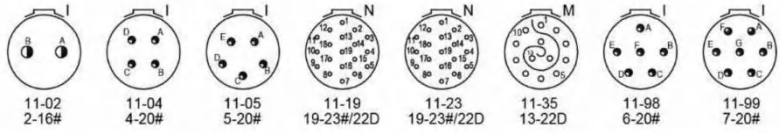
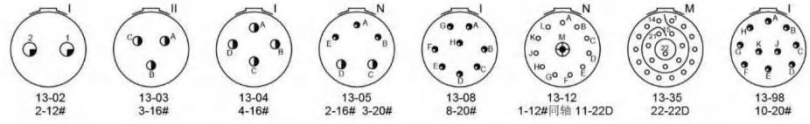
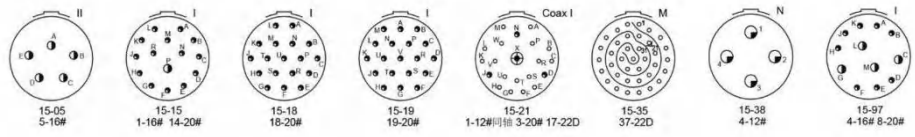
Crimp Contacts

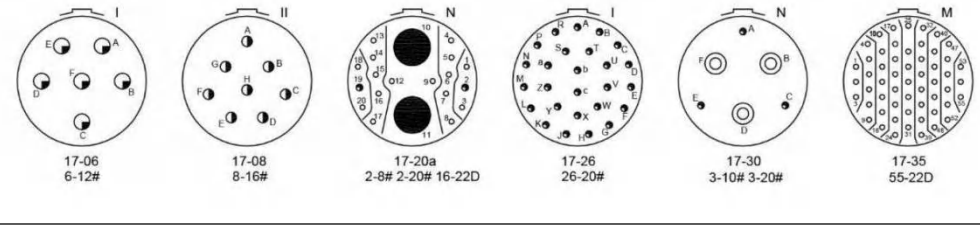
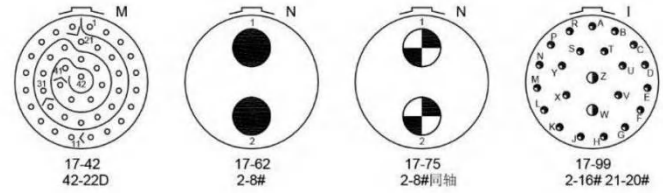
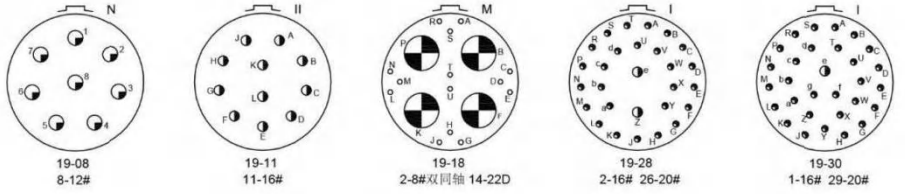
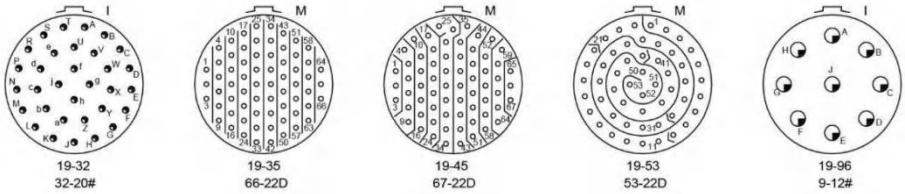
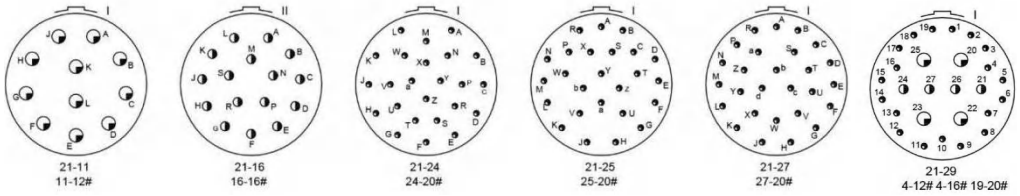
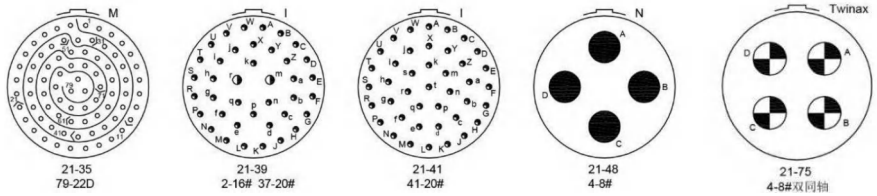
Contact specification	Work diameter	Pin color	Socket color	Inside diameter of crimp barrel	Outer diameter of crime barrel	Conductor section mm²	Adapted USA cable AWG	Adapted cableinsulated outer diameter mm	Unloading tool code	Crimp tool
22D	Φ0.76	orange-blue-black	orange-yellow-gray	0.85	1.20	0.08 0.125 0.2 0.3	28 26 24 22	0.76~1.37	M81969/14-01	YJQ-02
20#	Φ1.00	orange-blue-orange	orange-green-brown	1.17	1.78	0.2 0.3 0.5	24 22 20	1.02~2.11	M81969/14-10	YJQ-02 XCXY-01
16#	Φ1.60	orange-blue-yellow	orange-green-red	1.68	2.62	0.5 0.8 1.0 1.2	20 18 16	1.65~2.77	M81969/14-03	XCXY-01
12#	Φ2.40	orange-blue-green	orange-green-orange	2.49	3.84	2.0 3.0	14 12	2.46~3.61	M81969/14-04	XCXY-01
10#	Φ3.15	Green-red-gray	Green-orange-purple	3.40	4.65	4.8	10	3.42-4.12	M81969/14-05	XCXY-01YTQ
8#	Φ3.60	-	-	4.55	6.4	8.37	8	6.4-6.9	M81969/14-12	YTQ

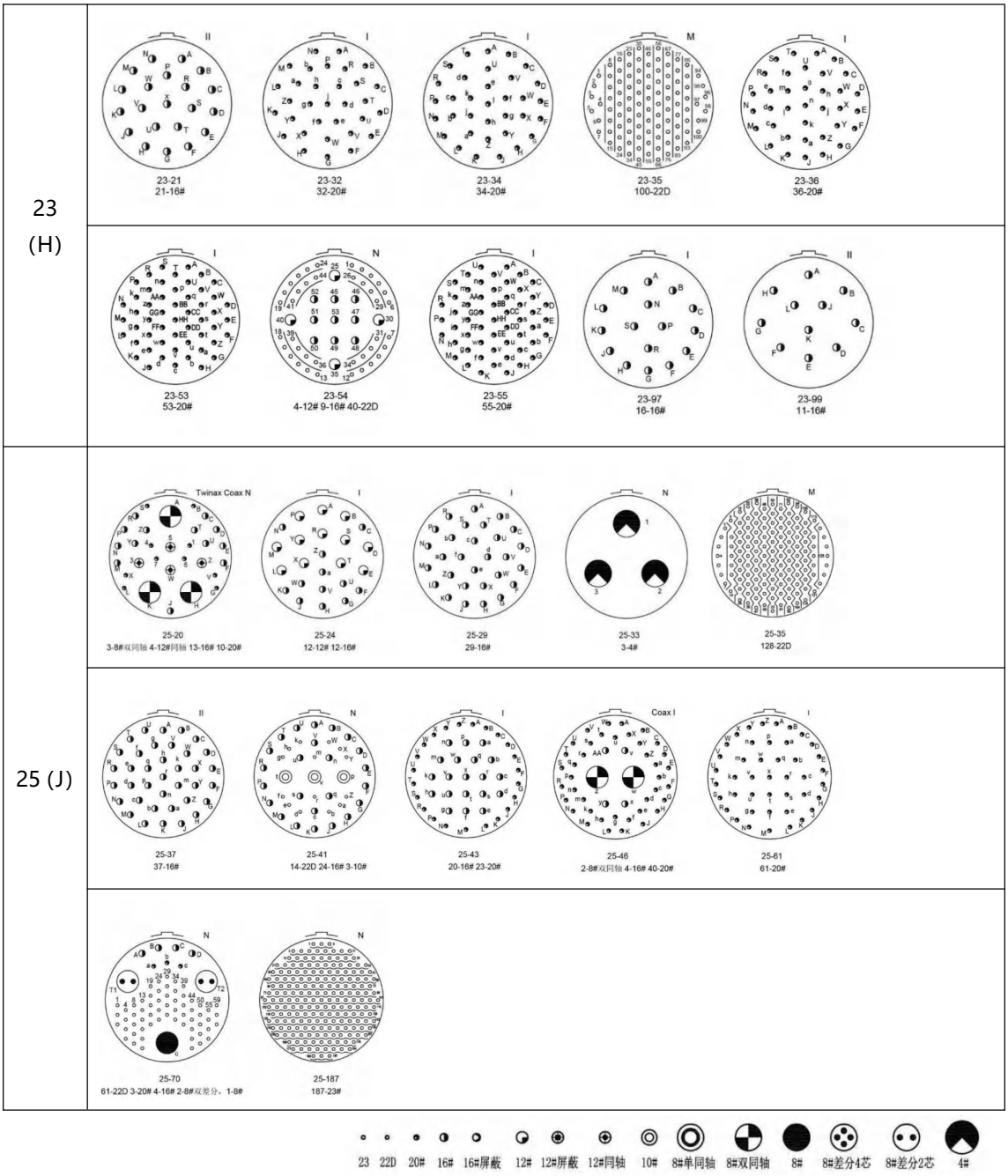
Solder Contacts

Contact specification	Inside diameter of welded wire cup	Maximum Adapter Wire Gauge (AWG)
22D	Φ0.9	22
20#	Φ1.1	20
16#	Φ1.9	16
12#	Φ2.9	12
10#	Φ3.6	10
8#	Φ4.8	8

Contact arrangement (pin insulator insertion surface view)

09 (A)	
11 (B)	
13 (C)	
15 (D)	

17(E)	 
19(F)	 
21 (G)	 

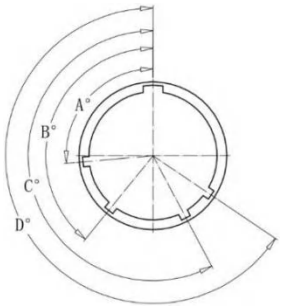


Note:

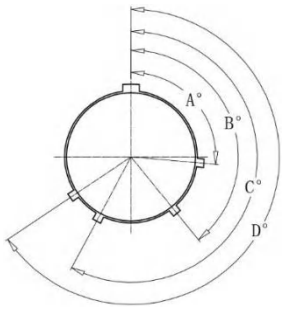
1. 20 # hole can be replaced with 20 # fiber optic contact piece;
2. 16 # hole can be replaced with 16 # shielding and 16 # fiber optic contacts;
3. The 12 # hole can be replaced with 12 # shielding, 12 # coaxial, and 12 # fiber optic contacts;
4. The 8 # hole can be replaced with 8 # dual coaxial, 8 # coaxial, and 8 # differential contacts.

Shell and keys

Receptacle key Angle



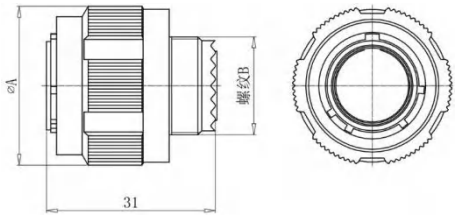
Plug key Angle



Shell number	MS shell number	Angle	N	A	B	C	D	E
9	A	A ° B ° C ° D °	105 140 215 265	102 132 248 320	80 118 230 312	35 140 205 275	64 155 234 304	91 131 197 240
11 13 15	B C D	A ° B ° C ° D °	95 141 208 236	113 156 182 292	90 145 195 252	53 156 220 255	119 146 176 298	51 141 184 242
17 19 21 23 25	E F G H J	A ° B ° C ° D °	80 142 196 293	135 170 200 310	49 169 200 244	66 140 200 257	62 145 180 280	79 153 197 272

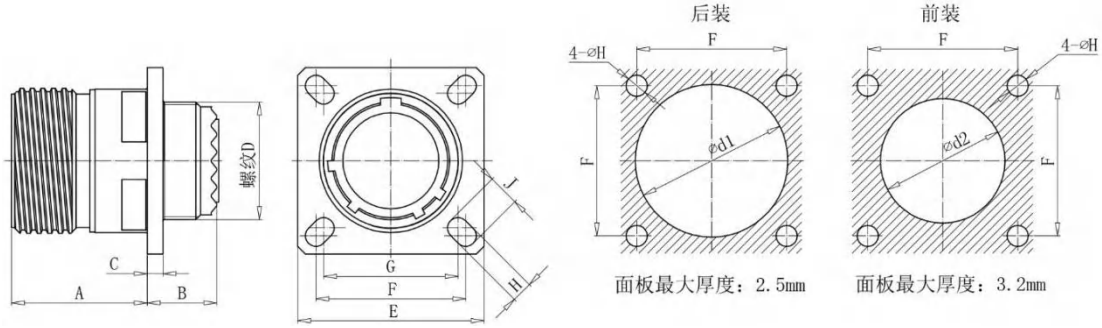
Product Size

D38999/26 Plug



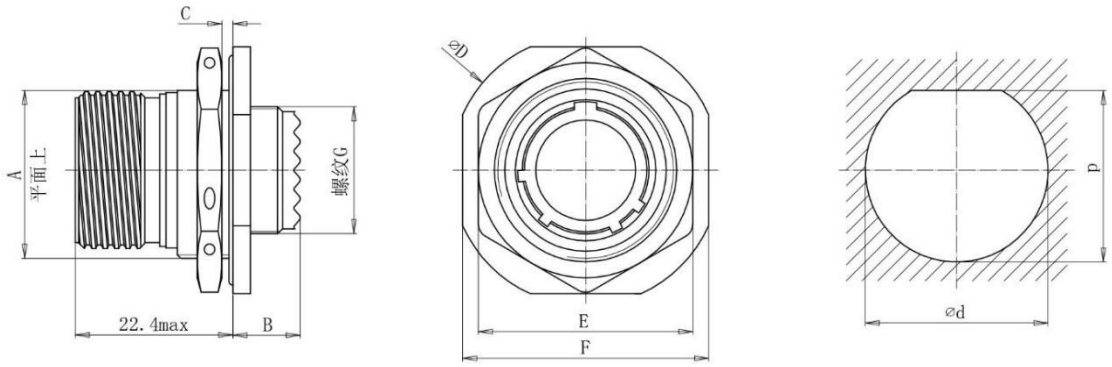
Shell number	MS Shell number	A	Screw thread B
09	A	21.5	M12×1.0-6g
11	B	25.0	M15×1.0-6g
13	C	29.2	M18×1.0-6g
15	D	32.4	M22×1.0-6g
17	E	35.6	M25×1.0-6g
19	F	38.7	M28×1.0-6g
21	G	41.7	M31×1.0-6g
23	H	44.9	M34×1.0-6g
25	J	48.0	M37×1.0-6g

D38999/20 Wall mount receptacle



Shell number	MS Shell number	A max	B max	C max	D Screw thread	E	F	G	H	J	d1 min	d2 min
9	A	20.9	10.8	2.5	M12×1.0-6g	23.8	18.26	15.09	3.25	5.49	16.66	13.11
11	B	20.9	10.8	2.5	M15×1.0-6g	26.2	20.62	18.26	3.25	4.93	20.22	15.88
13	C	20.9	10.8	2.5	M18×1.0-6g	28.6	23.01	20.62	3.25	4.93	23.42	19.05
15	D	20.9	10.8	2.5	M22×1.0-6g	31.0	24.61	23.01	3.25	4.93	26.59	23.01
17	E	20.9	10.8	2.5	M25×1.0-6g	33.3	26.97	24.61	3.25	4.93	30.96	25.81
19	F	20.9	10.8	2.5	M28×1.0-6g	36.5	29.36	26.97	3.25	4.93	32.94	28.98
21	G	20.1	11.5	3.2	M31×1.0-6g	39.7	31.75	29.36	3.25	4.93	36.12	32.16
23	H	20.1	11.5	3.2	M34×1.0-6g	42.9	34.93	31.75	3.91	6.15	39.29	34.93
25	J	20.1	11.5	3.2	M37×1.0-6g	46.0	38.10	34.93	3.91	6.15	42.47	37.69

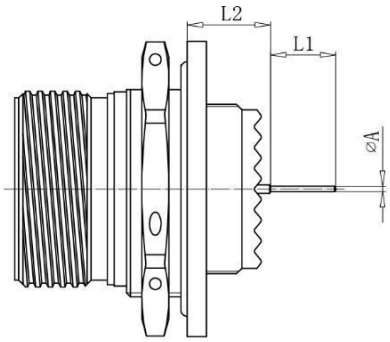
24- Jam nut receptacle



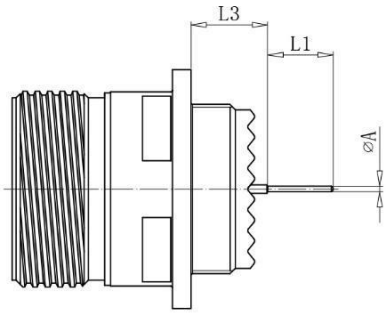
Shell number	MS Shell number	A	B max	C max	D max	E	F	G	d	p
9	A	16.5	9.9	3.2	30.5	22.5	27.1	M12× 1.0-6g	17.70	17.00
11	B	19.2	9.9	3.2	35.2	25.7	32.1	M15× 1.0-6g	20.88	19.53
13	C	23.8	9.9	3.2	38.4	30.5	35.0	M18× 1.0-6g	25.58	24.26
15	D	26.9	9.9	3.2	41.6	33.6	38.3	M22× 1.0-6g	28.80	27.53
17	E	30.3	9.9	3.2	44.8	36.8	41.8	M25× 1.0-6g	32.01	30.73
19	F	33.4	9.9	3.2	49.3	40.0	46.4	M28× 1.0-6g	35.15	33.86
21	G	36.5	9.9	3.2	52.7	43.2	49.6	M31× 1.0-6g	38.28	37.06
23	H	39.7	9.9	3.2	55.9	46.3	52.8	M34× 1.0-6g	41.53	40.26
25	J	42.8	9.9	3.2	59.0	51.0	55.8	M37× 1.0-6g	44.68	43.41

MIL-DTL-38999 III Series Receptacles
with PCB contacts

D38999/24 receptacle



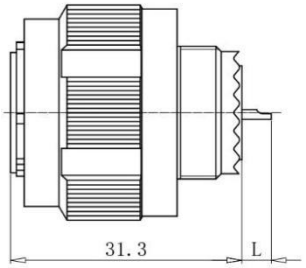
D38999/20 receptacle

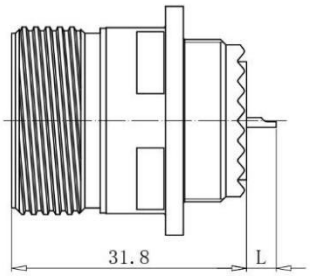


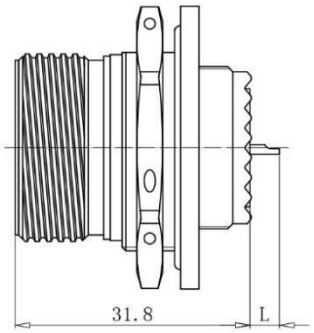
PCB Contacts Size		L1	A
22D	Long PCB Contact	8.5	0.7
	Short PCB Contact	4.0	
20#	Long PCB Contact	8.5	0.7
	Short PCB Contact	5.1	
16#	Long PCB Contact	8.5	1.15
	Short PCB Contact	5.1	

Size with different contact		Shell Size 09-11	Shell Size 13-15-17-19-21-23-25
L2	22D Pin	10.52-11.46	10.34-11.28
	22D Socket	10.19-11.46	10.01-11.28
	16#, 20# Pin or Socket	10.69-11.63	10.51-11.45
L3	22D Pin	9.48-10.58	9.48-10.58
	22D Socket	9.15-10.58	9.15-10.58
	16#, 20# Pin or Socket	9.65-10.75	9.65-10.75

D38999-III Series Slodering Product Size







Slodering Contact Size	22D	20#	16#	14#	10#	8#
L	4	4	4	4	6	6

Plug＆Receptacle Protective Coevr

D38999/ 32 F 15 N

Series Main Name

Type:

32 ： Plug Protective Cover

33： Receptacle Protective Cover

Finish

W = Cadmium plated Olive Drab

F = Electroless Nickel

K=stainless steel

Shell Size: 09-11-13-15-17-19-21-23-25

Chain type

R-stainless steel rope with connecting piece (for Wall mount receptacle)

C- Silk cord strap with connecting piece (for Wall mount receptacle)

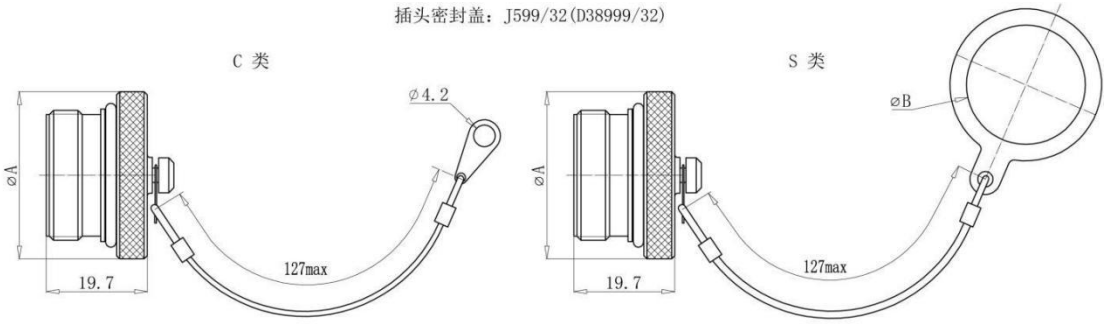
N-stainless steel wire with ring (suitable for Jam nut receptacle)

S-silk rope with ring (for Jam nut receptacle)

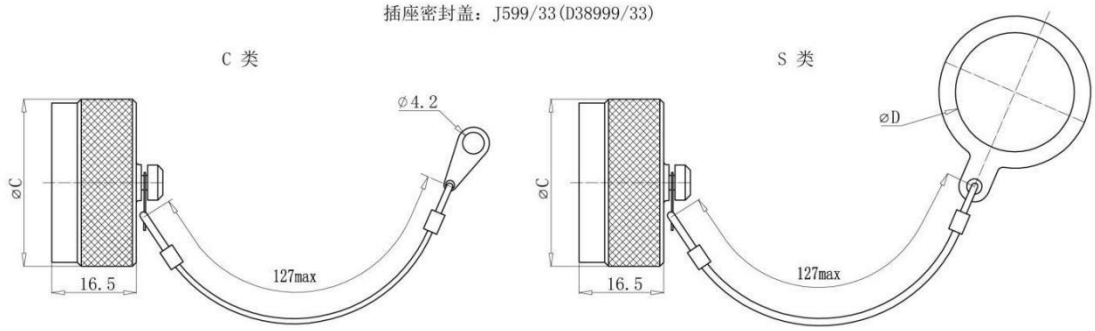
(Note: The Protective Cover should be ordered separately, not supplied with the connector, and can be customized according to customer requirements)

D38999/32 Plug Protective Cover Size

插头密封盖：J599/32(D38999/32)



插座密封盖：J599/33(D38999/33)



Shell Size	09	11	13	15	17	19	21	23	25
A	22.5	26.5	29.5	32.5	36.0	38.4	41.7	44.4	48.3
B	13.0	16.0	19.5	22.8	26.0	29.0	32.5	35.5	38.6
C	22.5	26.5	29.5	32.5	36.0	38.4	41.7	41.7	48.3
D	18.0	21.5	26.0	29.0	32.5	35.5	38.6	38.6	45.0

Standard tail accessories (for GJB599 Series III electrical connectors)

This type of attachment conforms to the national military standard GJB1784(equivalent to the United States military standard MIL-C-85049)

Note:

1. There is no difference between "J1784" and "J1784A" mentioned in the attachment model.

2. At least one of the following anti-loosening measures should be done when the accessories are used:

① Pass the fuse through the safety hole to prevent loosening;

② Apply thread glue on the tail thread of the product and tighten the connecting nut to prevent loosening;

③ Use the heat shrink tube to prevent the integral heat shrink of the attachment.

3. Accessories with tightening screws should be tightened after applying thread glue on the tightening screws.

4, if the cable accessories suitable for the product with No. 8 contact, need to choose a longer cable accessories such as J1784/49H type or J1784/18A type, to avoid contact

The piece positioner interferes with the cable attachment.

5. The following table lists the corresponding table of GJB599 series welding and crimping products and the functional classification of cable accessories, due to the change of our company at this stage.There are many types of products and modified accessories, can not be listed one by one, the content of this table is for reference only, please contact our company for details

Connector type	Adapted cable accessory function type	The adapter cable accessories type
GJB599III series Crimp type connector	Unable to clamp cables and no shielding accessories	1、J1784/14
	Able to clamp cables and no shielding accessories	1、J1784/38
		2、J1784/39
		3、J1784/16
		4.J1784/91-** J (composite material)
		5. J1784/92-** J (composite material)
	Unable to clamp cables and with shielding accessories	1、TJ1784/20
		2. J1784/20-** J (composite material)
		3、J1784/69
		4、J1784/88
		5、J1784/90
		6、JY599 Ⅰ-FJA00
		7、JY599 Ⅰ-FJA90
		8、JY599 Ⅰ-FJB00F
		9、JY599 Ⅰxx FJC00
		10、JY599 Ⅰxx FJE00
	Able to clamp cables and with shielding accessories	1、TJ1784/38-**NB
		3、J1784/18 Series
GJB599III series Crimp type connector	Unable to clamp cables and no shielding accessories	1、J1784/14
	Able to clamp cables and no shielding accessories	1、J1784/38H
		2、J1784/16H
		3、J1784/91H-** J （composite material)
	Unable to clamp cables and with shielding accessories	1、J1784/20
		2、J1784/69
		3、J1784/88
		4、J1784/90
		5、JY599III-FJA00
		6、JY599III-FJA90
	Able to clamp cables and with shielding accessories	1、TJ1784/18 Series

GJB1784 Part Number

J1784 / 38 - 15 W

Series Main Name

Type:

14- Tail nuts

16- Bent cable clamp

20- Shield tail accessories

38- Straight cable clamp

69- Heat shrinkable sheathed tail

Shell number: 09-11-13-15-17-19-21-23-25

Shell coating:

W - Cadmium plating military green

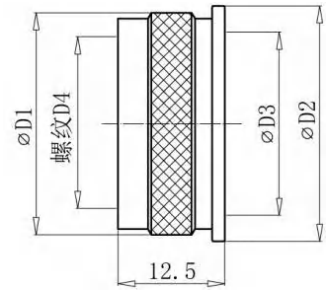
N - Nickel plating

S - stainless steel

Overall dimensions

J1784/14 tail nut

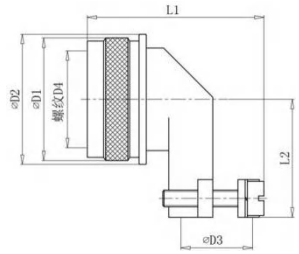
Anti-rotating accessories, tight hoop grommet , to ensure the environmental resistance of the connector, can not clamp the cable, used for general environment conditions.



Shell number	D1	D2	D3	Thread D4
09	16.5	17.6	7.9	M12×1.0
11	19.5	20.6	10.8	M15×1.0
13	22.5	23.6	13.6	M18×1.0
15	26.5	27.6	16.9	M22×1.0
17	29.5	30.3	20.1	M25×1.0
19	32.5	33.3	22.4	M28×1.0
21	36	36.8	25.6	M31×1.0
23	38.5	39.3	28.8	M34×1.0
25	41.7	42.3	31.9	M37×1.0

J1784/16 Bent cable clamp

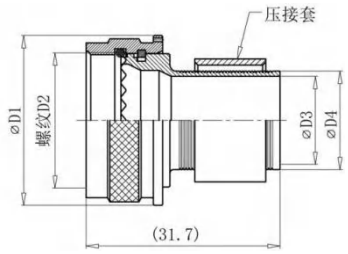
Anti-turning, cable 90° clamping cable accessories, can tighten the hoop to seal the cable body, 90° clamping cable function, to ensure the connector environmental resistance, for cable tension Occasion.



Shell number	D1	D2	D3 max	Thread D4	L1 max	L2 max
09	16.5	17.6	3.2~6.4	M12×1.0	29.0	25.0
11	19.5	20.6	4.0~9.5	M15×1.0	32.0	26.0
13	22.5	23.6	4.8~11.1	M18×1.0	33.5	27.5
15	26.5	27.6	5.5~14.3	M22×1.0	36.5	31.0
17	29.5	30.3	6.4~15.9	M25×1.0	38.5	32.5
19	32.5	33.3	7.9~19.1	M28×1.0	41.5	34.0
21	36	36.8	9.5~22.2	M31×1.0	44.5	34.5
23	38.5	39.3	10.3~23.8	M34×1.0	46.0	36.5
25	41.7	42.3	14.3~25.4	M37×1.0	48.0	43.5

J1784/20 Shield tail accessories

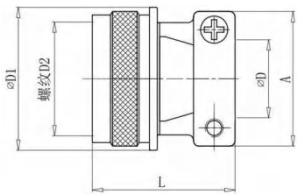
Anti-turning, clamping cable accessories, can tighten the hoop to seal grommet , clamping cable function, to ensure the environmental performance of the connector, for cable tension occasions



Shell	D1	Thread D2	D3	D4
09	17.6	M12×1.0	6.55	8.81
11	20.6	M15×1.0	8.63	12.65
13	23.6	M18×1.0	10.90	12.95
15	27.6	M22×1.0	14.10	16.00
17	30.3	M25×1.0	17.25	19.30
19	33.3	M28×1.0	20.40	22.61
21	36.8	M31×1.0	23.60	25.65
23	39.3	M34×1.0	26.40	28.70
25	42.3	M37×1.0	28.40	30.53

J1784/38- Straight cable clamp (clamp cable without shielding accessories)

Anti-turning, clamping cable accessories, can tighten the hoop to grommet , clamping cable function, to ensure the environmental performance of the connector, for cable tension occasions.

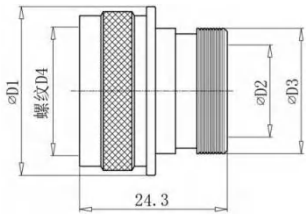


Shell number	D1	Thread D2	D	A	L
09	17.6	M12×1.0	2.49~5.94	20.0	23.6
11	20.6	M15×1.0	3.87~5.94	22.0	24.6
13	23.6	M18×1.0	4.83~8.33	24.5	26.7
15	27.5	M22×1.0	6.60~11.61	26.0	27.5
17	30.3	M25×1.0	7.19~15.60	30.5	27.5
19	33.3	M28×1.0	8.26~16.10	35.0	29.0
21	36.8	M31×1.0	8.71~17.73	38.0	30.4
23	39.3	M34×1.0	9.68~20.90	41.0	32.4
25	42.3	M37×1.0	10.62~21.66	44.0	34.4

J1784/69- Heat shrink casing tail accessories

Anti-turning, compression screen accessories. It can tighten the hoop to grommet , provide the connection function of shielding network and tail accessories, and ensure the environmental resistance and electromagnetic screen of the connector.

Shielding performance, can not clamp the cable, used for cable tension is small occasions.

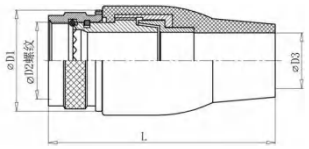


Type	D1	D2	D3	Screw thread D4
09	16.5	6.9	11.0	M12×1.0
11	19.5	9.8	14.0	M15×1.0
13	22.5	12.8	17.6	M18×1.0
15	26.5	16.3	20.5	M22×1.0
17	29.5	19.4	24.0	M25×1.0
19	32.5	21.6	26.4	M28×1.0
21	36.0	25.0	30.0	M31×1.0
23	38.5	27.7	33.2	M34×1.0
25	41.7	20.3	36.2	M37×1.0

J1784/01- Ground clamp tail attachment (shielded, unclamped cable attachment)

Anti-turning, compression screen accessories. It can tighten the hoop to seal grommet , provide the connection function of shielding network and tail accessories, and ensure the environmental resistance and electromagnetic screen of the connector.

Shielding performance, can not clamp the cable, used for cable tension is small occasions.



Shell	D1	Screw thread	D3	L
09	17.6	M12×1.0	7.0	53.0
11	20.6	M15×1.0	10.0	53.0
13	23.6	M18×1.0	13.0	53.0
15	27.5	M22×1.0	15.0	73.0
17	30.3	M25×1.0	18.0	73.0
19	33.3	M28×1.0	20.0	73.0
21	36.8	M31×1.0	23.5	73.0
23	39.3	M34×1.0	26.5	73.0
25	42.3	M37×1.0	29	73.0

J1784/18-**N Product naming

J1784 / 18 - 17 N 04 A

Series Main Name

Type:

Type 18-Straight shielded cable clamp

Shell number: 09 11 13 15 17 19 21 23 25

Shell coating:

W - Cadmium plating military green

N - Nickel plating

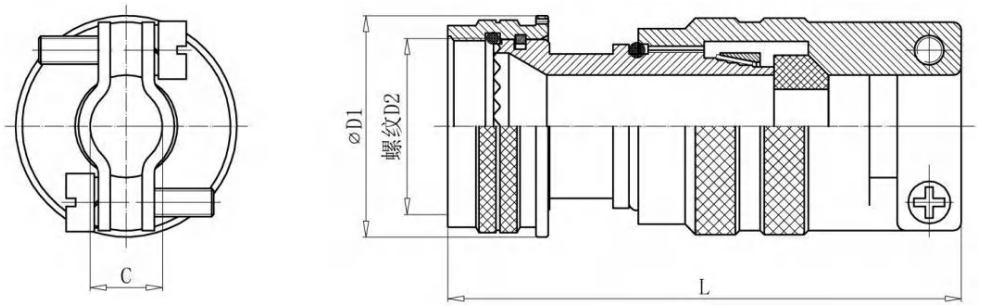
S - stainless steel

FT- Aluminum alloy plated with satin cadmium

Ta-titanium alloy

Outlet diameter number: Select according to Table 1 and Table 2

Length coding: See Table 3



Anti-turning, compression screen and clamp cable accessories, can tighten the hoop to grommet , provide the screen and tail accessories connection function, to ensure the connector of high resistance environment

Performance and electromagnetic shielding performance, used in harsh environments, the cable accessories have different lengths, can be suitable for high and low frequency mixed loading and other need longer length accessories occasions,

The attachment recommends the use of finished cables

Table 1

Shell number	Outgoing wire No	D1	Thread D2
09	01~02	16.5	M12×1.0
11	01~03	19.5	M15×1.0
13	02~04	22.5	M18×1.0
15	02~05	26.5	M22×1.0
17	02~06	29.5	M25×1.0
19	03~07	32.5	M28×1.0
21	03~08	36.0	M31×1.0
23	03~09	38.5	M34×1.0
25	04~10	41.7	M37×1.0

Table 2

Outgoing wire No	Suitable wire diameter range C
01	1.57~3.18
02	3.18~6.35
03	6.35~9.53
04	9.53~12.7
05	12.7~15.88
06	15.88~19.05
07	19.05~22.23
08	22.23~25.4
09	25.4~28.58
10	28.58~31.75

Table 3

Shell number	Length NO.	L
09~25	Standard (omitted not marked)	64.1
09~25	A	88.1
15~25	B	113.5
21~25	C	138.9

319-001 Product naming

319 F S 01 M 15 06

Series Main Name

Design Number

Type:

A- curved 90° S-straight type

Base code

Shell coating:

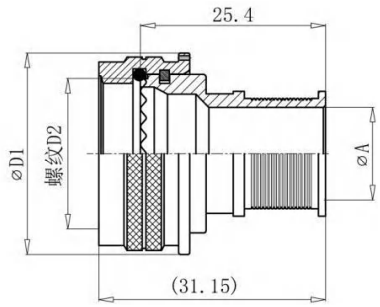
B - Cadmium plating military green

M - Nickel plating

NF - Electroless nickel plating after cadmium plating

Shell number: 09 11 13 15 17 19 21 23 25

Outlet diameter number: See Table 1 for details



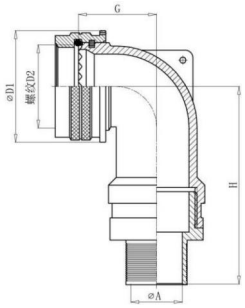


Table 1

Outlet Wire number	Outlet Wire A
1	4.8
2	6.4
3	7.9
4	9.5
5	11.1
6	12.7
7	14.3
8	15.9
9	17.5
10	19.1
11	20.6
12	22.2
13	23.8
14	25.4
15	31.8

Table 2

Shell number	D1	Screw thread D2	G max	H max
08	16.5	M12×1.0	14.7	43.9
10	19.5	M15×1.0	17.1	47.0
12	22.5	M18×1.0	17.5	47.5
14	26.5	M22×1.0	19.8	49.3
16	29.5	M25×1.0	24.5	51.6
18	32.5	M28×1.0	26.8	55.9
20	36.0	M31×1.0	26.8	55.9
22	38.5	M34×1.0	30.6	58.7
24	41.7	M37×1.0	30.6	58.7

Special tail accessories (for GJB599 Series I II electrical connectors)

This type of tail attachment is especially suitable for the clamping of shielded cables with shielding nets, and is divided into two categories: straight and curved. The accessory is optional with alloy memory Ti-Ni alloy memory ring is heated to shrink, and the shielding net is tight at the end of the attachment, which truly achieves 360° electromagnetic shielding.

Note: Ti-Ni alloy memory ring heating shrinkage method: can use a heat gun heating, about 45 seconds to 1 minute, when the temperature indicator color on the memory ring is green When it turns black, the memory ring has shrunk. At this time, the temperature of the ring is about 165 ℃. Stop heating. Pay attention to ensure that the memory ring is heated evenly when heating.

Product naming

J1784/88, J1784/90 tail accessories (shielding without clamping cable accessories)

J1784 / 88 - 13 N A 03

Series Main Name

Type:

88-straight type

90-curved type

Shell number: 09 11 13 15 17 19 21 23 25

— A B C D E F G H J

Shell coating:

W - cadmium plated army green N - nickel plating

S-stainless steel FT- Aluminum alloy plated with satin cadmium

Ta-titanium alloy (Type 88 only)

Titanium-nickel rings:

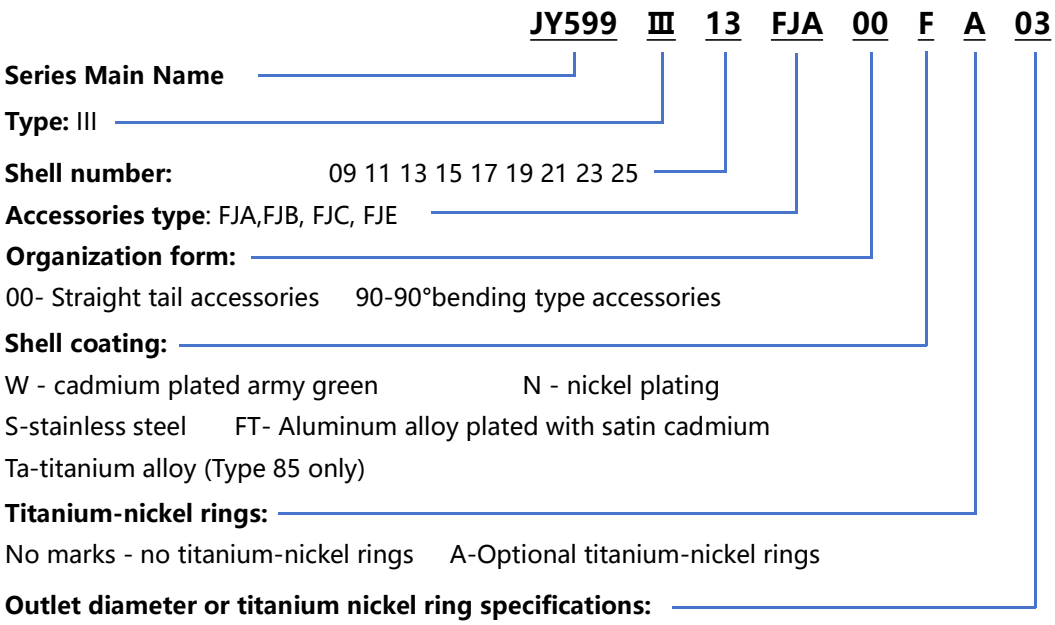
No marks - no titanium-nickel rings A-Optional titanium-nickel rings

Outlet diameter or titanium nickel ring specifications:

Mark the diameter of the outlet when there is no titanium-nickel ring

Note the specifications of Ti-Ni rings when matching Ti-Ni rings]

JY599 III-FJA00, JY599 III-FJA90 External shielded tail accessories (shielded unclamped cable accessories)



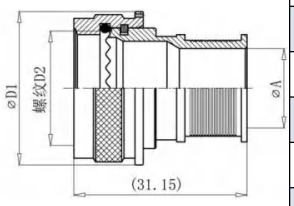
Note:

1, this type of accessories for harsh environment, do not need to disassemble frequently occasions, can achieve internal and external shielding.

2, J1784/88, J1784/90 and JY599III-FJA00, JY599 III-FJA90 the same, only named different models.

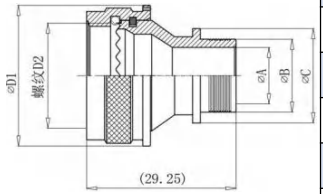
Overall dimension

Straight accessories (J1784/88 or JY599 III-FJA00



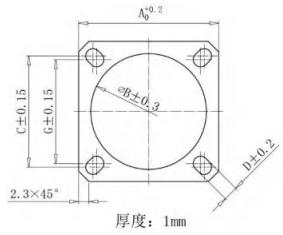
Shell number	D1	Screw thread D2	A (02 Outlet hole)	A (03 Outlet hole)
09	17.6	M12×1.0	N/A	6.4
11	20.6	M15×1.0	N/A	7.9
13	23.6	M18×1.0	7.9	11.1
15	27.5	M22×1.0	11.1	14.3
17	30.3	M25×1.0	12.7	15.9
19	33.3	M28×1.0	15.9	19.1
21	36.8	M31×1.0	15.9	20.6
23	39.3	M34×1.0	17.5	23.8
25	42.3	M37×1.0	19.1	25.4

JY599 III **FJC00 (Shielded without clamping cable accessories)



Shell	D1	Screw	A	B	C
09	17.6	M12×1.0	6.6	9.3	13.3
11	20.6	M15×1.0	8.3	11	15
13	23.6	M18×1.0	10	12.7	16.6
15	27.5	M22×1.0	11.1	14.3	18.5
17	30.3	M25×1.0	13.1	15.9	19.8
19	33.3	M28×1.0	16.2	19	23
21	36.8	M31×1.0	16.2	19	23
23	39.3	M34×1.0	19.5	22.2	26.2
25	42.3	M37×1.0	19.5	22,2	26.2

599-III square plate rubber pad



Shell number	A	B	C	G	D
09	23.9	16.1	18.26	15.09	3.3
11	26.3	19.2	20.62	18.26	3.3
13	28.7	22.4	23.01	20.62	3.3
15	31.1	25.6	24.61	23.01	3.3
17	33.4	30.4	26.97	24.61	3.3
19	36.6	32.0	29.36	26.97	3.3
21	39.8	34.9	31.75	29.36	3.3
23	43.0	38.3	34.93	31.75	4.0
25	46.1	41.4	38.10	34.93	4.0

Y11 series circular electrical connector



Conform to Chinese military connector standard GJB101A-1997. Y11 series is designed as quick interior bayonet coupling and quick release, small size and light weight, solder contacts

Performance specification

- Operating temperature range: -55 °C ~ +125 °C
- Shock: Max acceleration 980 m/s2
- Relative humidity: 90 ~ 95% at 40 ± oC
- Endurance: ≥ 500 cycles
- Contact resistance and current rating:

Diameter (mm)	Φ 1.0	Φ 1.5
Current (A)	5	10
Resistance (mΩ)	≤ 5	≤ 3

- Insulation resistance:

Sea level	High humidity	High temperature	Under rain
≥ 3000MΩ	≥ 20MΩ	≥ 500MΩ	≥ 20MΩ

- Withstanding voltage:

Sea level	21000 m	Humidity and heat
1500 V	200 V	500 V

How to Build Your Connector Part Number

Y11 X Ⅲ 20 41 Z J 10 2

Basic series

Type

X = Sealed by sealant

P = Shielding sealed by sealant

P1 = Shielded Sealed by sealant with electroless nickel plating

S = Copper shell sealed by sealant and electroless nickel plating

B = Stainless steel shell Sealed by sealant

H = vitreous seal (only for receptacle)

Orientation Ⅰ、Ⅱ、Ⅲ、Ⅳ、Ⅴ Omit = Ⅰ

Shell size 08，10，12，14，16，18，20，22，24

Number of contact 2~61

Type of connector T = Plug Z = Receptacle

Type of contact J = Pin K = Socket S = Contact of thru wall

Type of receptacle

10 = Square flange receptacle

11 = Circular flange receptacle

14 = Jam nut receptacle

Back shell

2 = Cable clamp

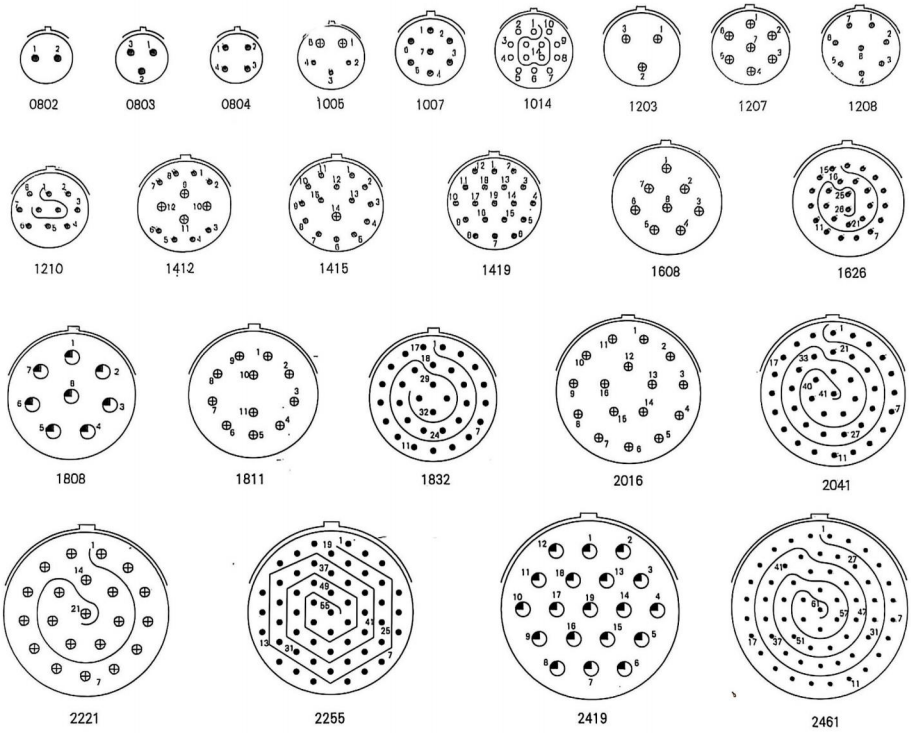
4 = 90° elbow

5 = Heat shrinkable sleeve Ⅰ

5a = Heat shrinkable sleeve Ⅱ

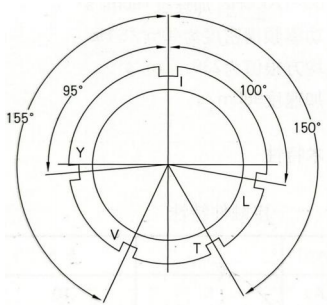
6 = Shielding

Contact layout



注：接触件直径标志 ○ Φ0.8 ●Φ1 ⊕Φ1.5 ◐Φ2.5

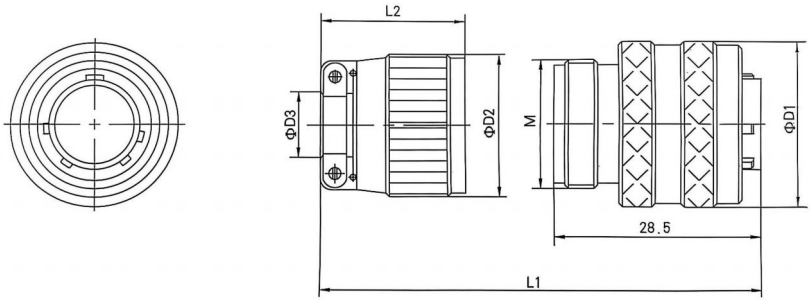
Orientation



No.	I	II	III	IV	V
Letter of sign	I	L	T	V	Y
Degree	0°	100°	150°	155°	95°

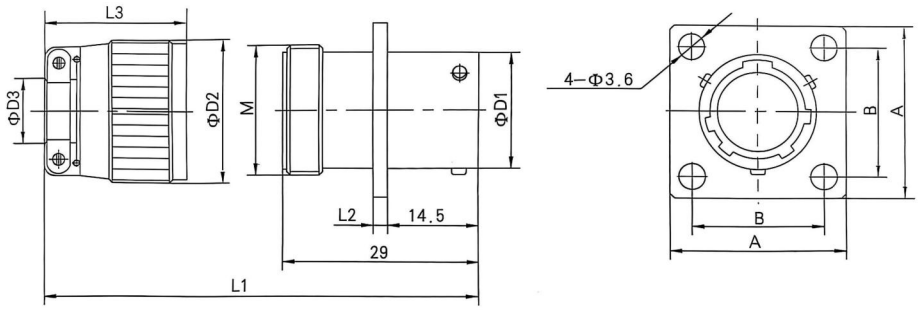
Shell size

Plug



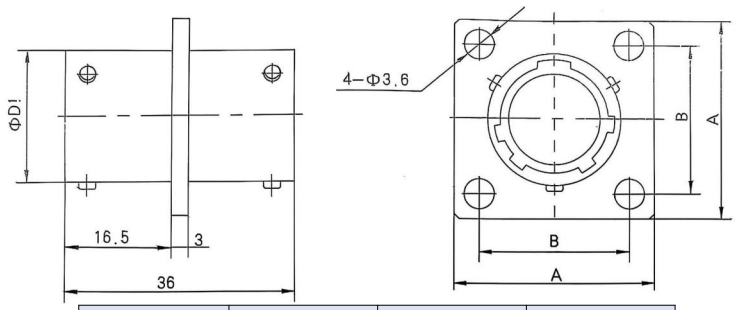
Shell No.	D1	Thread M	D2	D3	L1±2	L2
08	20	M14×1.0	17.0	6	41.0	20
10	23	M18×1.0	20.0	8	41.0	20
12	26	M20×1.0	22.5	10	43.0	22
14	30	M24×1.0	26.5	12	49.0	28
16	33	M27×1.0	29.5	14	49.0	28
18	36	M30×1.0	32.5	17	49.0	28
20	39	M33×1.5	35.5	20	50.5	30
22	42	M36×1.5	38.5	24	50.5	30
24	45	M39×1.5	41.5	27	55.0	35

Square flange receptacle



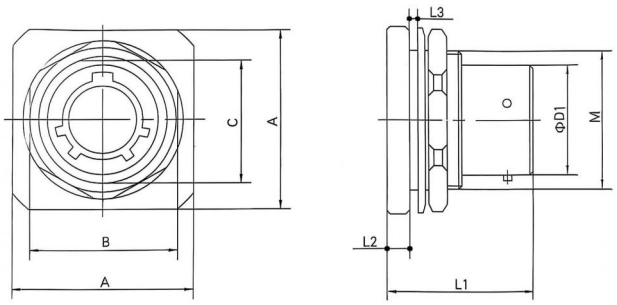
Shell No.	A	B ±0.15	D1	D2	D3	Thread M	L1±2	L2	L3
08	21	15	13	17.0	6	M14×1.0	41.5	1.5	20
10	24	18	16	20.0	8	M18×1.0	41.5	1.5	20
12	27	21	20	22.5	10	M20×1.0	43.5	1.5	22
14	30	23	23	26.5	12	M24×1.0	49.5	1.5	28
16	33	25	26	29.5	14	M27×1.0	49.5	1.5	28
18	36	27	29	32.5	17	M30×1.0	49.5	1.5	28
20	39	29	32	35.5	20	M33×1.5	51.0	2.2	30
22	42	32	35	38.5	24	M36×1.5	51.0	2.2	30
24	45	35	38	41.5	27	M39×1.5	55.0	2.2	35

Square flange receptacle thru wall



Shell No.	A	B ±0.15	D1
08	21	15	13
10	24	18	16
12	27	21	20
14	30	23	23
16	33	25	26
18	36	27	29
20	39	29	32
22	42	32	35
24	45	35	38

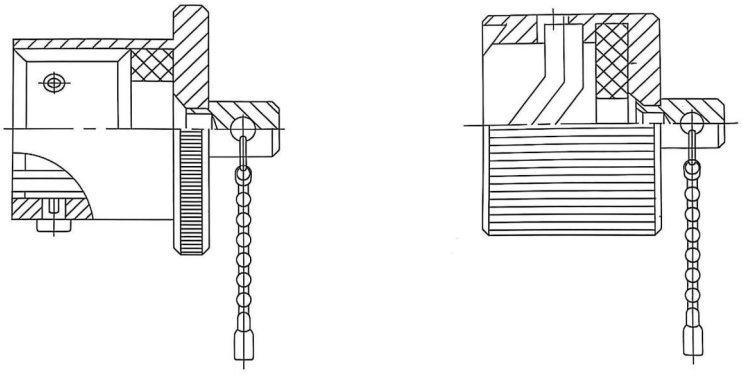
Jam nut receptacle



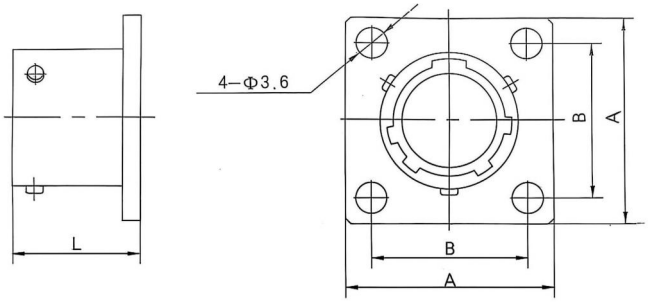
Shell No.	L1	L2	L3	D1	D2	Thread M	A	B	C
08	21.0	2.5	1.6 ~ 3.2	13	27	M16×1.0	24	22	15
10	21.0	2.5	1.6 ~ 3.2	16	30	M20×1.0	27	24	19
12	21.0	2.5	1.6 ~ 3.2	20	35	M24×1.0	32	27	23
14	21.0	2.5	1.6 ~ 3.2	23	38	M27×1.0	36	30	25
16	21.0	2.5	1.6 ~ 3.2	26	42	M30×1.0	38	32	2
18	21.0	2.5	1.6 ~ 3.2	29	45	M33×1.5	41	36	32
20	25.5	3.0	1.6 ~ 6.4	32	49	M36×1.5	46	41	35
22	25.5	3.0	1.6 ~ 6.4	35	53	M39×1.5	50	43	38
24	25.5	3.0	1.6 ~ 6.4	38	56	M42×1.5	53	46	41

Back shell and accessories

Dust cap

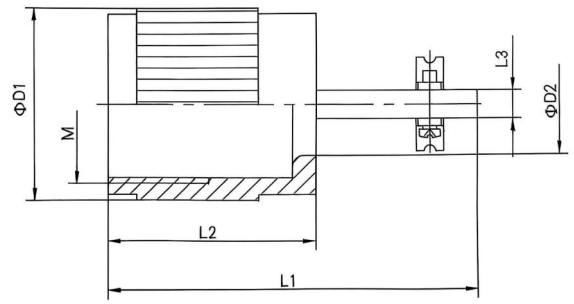


Receptacle



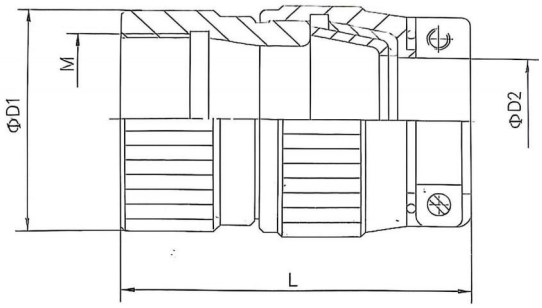
Shell No.	L	A	B ±0.15
08	15	21	15
10	15	24	18
12	15	27	21
14	15	30	23
16	15	33	25
18	15	36	27
20	15	39	29
22	15	42	32
24	15	45	35

Open back shell



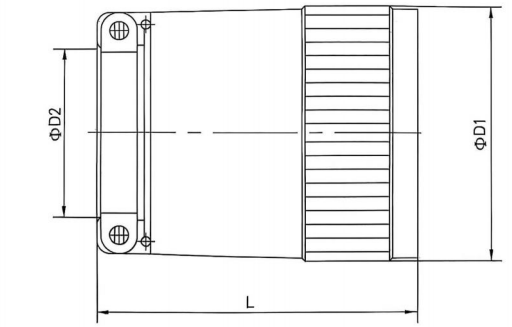
Shell No.	D1	D2	L1	L2	L3	Thread M
08	17.0	10	29	15	2.5	M14×1.0
10	20.0	12	29	15	2.5	M18×1.0
12	24.5	14	31	15	2.5	M20×1.0
14	26.5	16	38	20	3.0	M24×1.0
16	29.5	18	39	20	3.0	M27×1.0
18	32.5	20	40	20	4.0	M30×1.0
20	35.5	20	42	22	4.5	M33×1.0
22	38.5	22	42	22	5.0	M36×1.0
24	41.5	24	47	27	5.0	M39×1.0

Shielded back shell



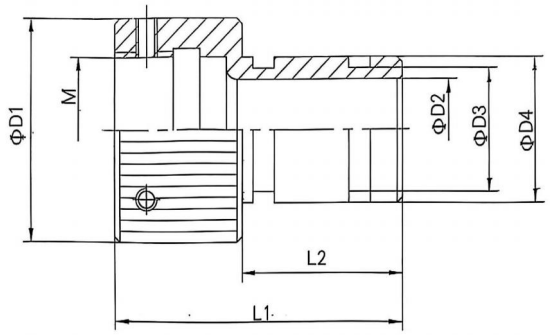
Shell No.	L	D1	D2	Thread M
08	35	18.0	10.0	M14×1.0
10	35	21.0	10.0	M18×1.0
12	37	25.5	14.5	M20×1.0
14	40	31.0	16.5	M24×1.0
16	40	31.0	16.5	M27×1.0
18	50	34.0	20.0	M30×1.0
20	50	34.0	22.5	M33×1.5
22	50	38.5	22.5	M36×1.5
24	50	41.5	24.0	M39×1.5

Long back shell



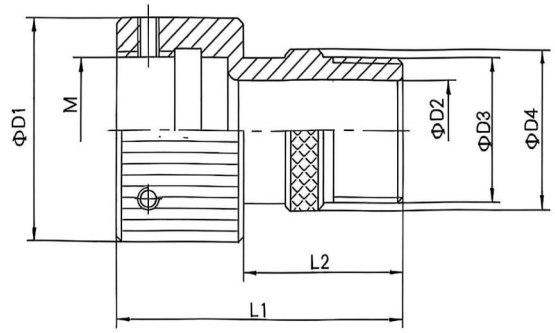
Shell No.	D1	D2	L
08	17..0	6	35
10	20.0	8	35
12	22.5	10	37
14	26.5	12	43
16	29.5	14	43
18	32.5	17	43
20	35.5	20	45
22	38.5	24	45
24	41.5	27	50

Heat shrinkable sleeve Ⅰ



Shell No.	D1	D2	D3	D4	Thread M	L1	L2
08	20.0	9	11	13	M14×1.0	27	15
10	24.0	10	12	14	M18×1.0	27	15
12	26.5	13	15	17	M20×1.0	30	15
14	30.5	17	19	21	M24×1.0	31	16
16	33.0	18	20	22	M27×1.0	31	18
18	36.0	23	25	27	M30×1.0	34	22
20	39.8	24	26	28	M33×1.5	35	20
22	42.0	27	29	31	M36×1.5	34	22
24	45.0	30	32	34	M39×1.5	36	24

Heat shrinkable sleeve Ⅱ



Shell No.	D1	D2	D3	D4	Thread M	L1	L2
08	20.0	8.7	12.8	14.8	M14×1.0	33	20
10	24.0	10.0	14.4	16.4	M18×1.0	33	20
12	26.5	15.0	19.1	21.1	M20×1.0	33	20
14	30.5	18.2	22.3	24.3	M24×1.0	33	20
16	33.0	18.2	22.3	25.3	M27×1.0	33	20
18	36.0	24.5	28.7	30.7	M30×1.0	33	20
20	39.8	24.5	28.7	30.7	M33×1.5	35	20
22	42.0	27.5	31.8	33.8	M36×1.5	35	20
24	45.0	30.0	31.8	34.0	M39×1.5	35	20

Y50X series circular electrical connector



Conform to Chinese military connector standard GJB101A-1997, Y50X series is designed as bayonet coupling, small volume, high density.

Performance specification

- Operating temperature range: -55 °C~ +125 °C
- Corrosion resistance: Withstand 48 hours salt spray (5% NaCl fog)
- Operating atmospheric pressure: 4.39 KPa ~ 101.33 KPa
- Vibration: 10 Hz ~ 2000 Hz, acceleration 196 m/s2
- Relative humidity: 40 + 2 °C, 90% ~ 95%
- Durability: ≥ 1000 cycles

Contact specification

Contact No.	Cross section for cable (mm^2)	Resistance (mΩ)	Current (A)
20#	0.20	≤5	5
	0.30		
	0.50		
16#	0.50	≤3	10
	0.80		
	1.25		
12#	2.00	≤2	25
	3.15		

How to Build Your Connector Part Number

Y50 X 12 -10 T J ² Ⅲ H S L

Basic series

Type

X = Solder and hermetic by adhesive
P = Solder shielding and hermetic by adhesive
A = PCB, solder and hermetic by adhesive
C = Hermetic by adhesive without magnetism

Shell size

08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 32

Number of contact 2~61

Type of connector T = Plug Z = Receptacle

Type of contact J = Pin K = Socket

SJ = Thru bulkhead Pin SK = Thru bulkhead Socket

Type of plug and receptacle (See below datasheet)

Orientation Omit = N N,W,X,Y,Z(See below)

Finish

P1 = Electroless nickel plating P2 = Bright nickel plating
P3 = Half bright nickel plating H1 = Conductive black
L2 = Olive drab cadmium plating H = Black anodized
L = Olive drab anodized L1 = Olive drab matte
L3 = White anodized

Material of shell

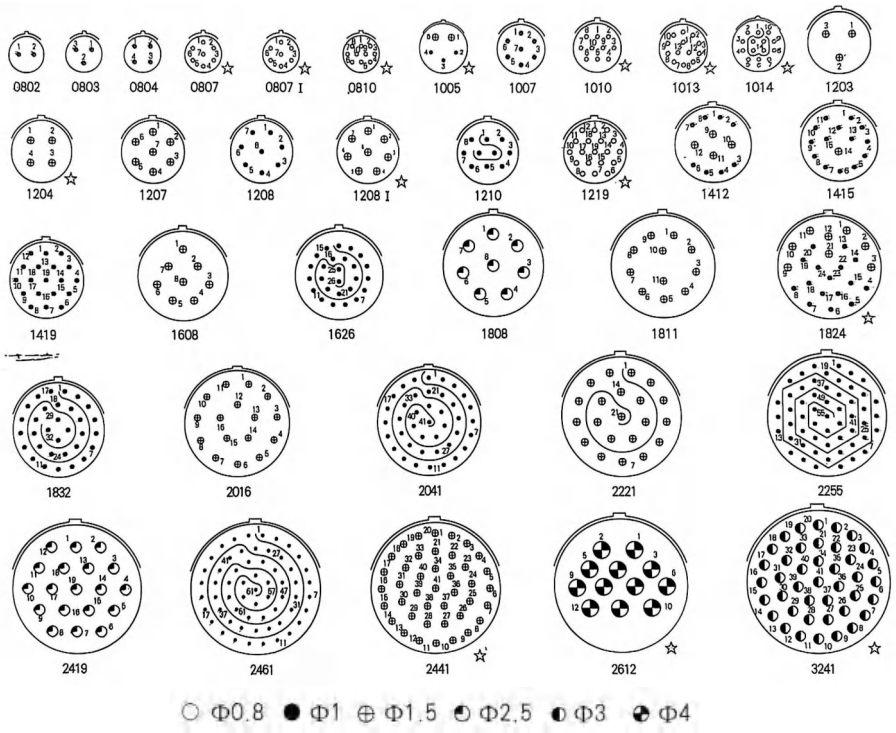
S = Cooper-alloy B = Stainless steel passivated Omit = Aluminium-alloy

Length

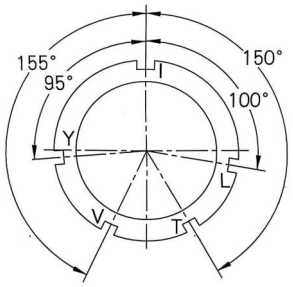
Datasheet

Sign	Plug	Sign	Plug
1	Earthing jam	8	Protect cable back shell
2	Cable connecting	8-2	Hermetic tensile
2M	Hermetic cable back shell	10	Square flange (front)
2P	Shielded cable back shell	20	Square flange (back)
3	Hermetic	11	Circular flange
4	Avoid-wave and tensile	14	Jam nut
5	90° elbow and protect cable	10-2	Square flange with cable clamp
6	Thread spring and protect cable	11-2	Circular flange with cable clamp
5-6	90° elbow line spring	24	Circular jam nut

Contact layout



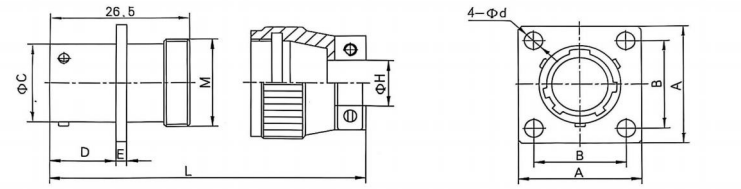
Orientation



No.	I	II	III	IV	V
Letter of sign	V	Y	I	L	T
Degree	155°	95°	0°	100°	150°

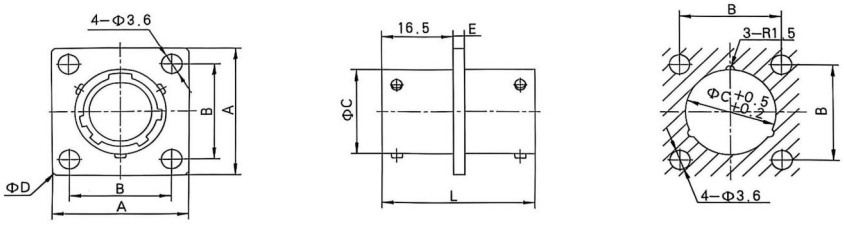
Shell size

Square flange receptacle



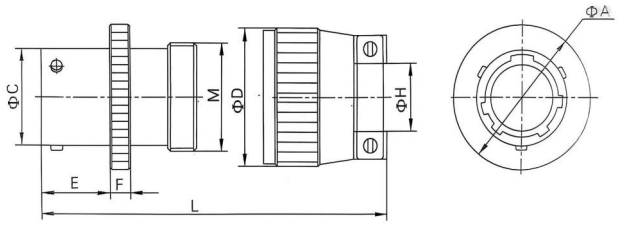
Shell No	A	B	Φ C	E	Thread M	Φ H	L	D		Φ d
								Front	Back	
0807	21	15 ± 0.15	12	1.5	—	—	—	—	14.5	3.6
08	21	15 ± 0.15	13	2.0	M14*1.0	4-7	41.5	12.5	14.5	3.6
10	24	18 ± 0.15	16	2.0	M18*1.0	4-7	41.5	12.5	14.5	3.6
12	27	21 ± 0.15	20	2.0	M20*1.0	5-10	43.5	12.5	14.5	3.6
14	30	23 ± 0.15	23	2.0	M24*1.0	6-14	49.5	12.5	14.5	3.6
16	33	25 ± 0.15	26	2.0	M27*1.0	6-16	49.5	12.5	14.5	3.6
18	36	27 ± 0.15	29	2.0	M29*1.0	6-17.5	49.5	12.5	14.5	3.6
20	39	29 ± 0.15	32	2.0	M33*1.0	6-20	51.0	12.5	14.5	3.6
22	42	32 ± 0.15	35	2.0	M36*1.0	6-24	51.0	12.5	14.5	3.6
24	45	35 ± 0.15	38	2.0	M38*1.0	6-27	55.0	12.5	14.5	3.6
26	48	38.5 ± 0.15	41	2.0	M42*1.0	6-27	55.0	12.5	14.5	3.6

Square flange receptacle



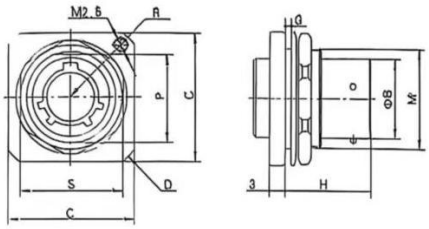
Shell No	08	10	12	14	16	18	20	22	24
A	21	24	27	30	33	36	39	42	45
B ± 0.15	15	18	21	23	25	27	29	32	35
Φ C	13	16	20	23	26	29	32	35	38
E	3	3	3	3	3	3	3	3	3
L	36	36	35.6	36	36	36	36	36	36
Φ D	27	33	37	40	44.5	45	50	55	60

Circular flange receptacle



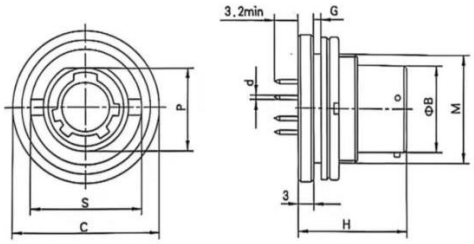
Shell No.	Φ C	E	F	D	Φ H	L	Φ A	Thread M
08	13.00	12.5	4	16.0	4-6	41.5	23.0	14*1
10	16.00	12.5	4	20.0	4-7	41.5	27.0	18*1
12	20.00	12.5	4	22.0	5-10	43.5	31.0	20*1
14	23.00	12.5	4	26.0	6-14	49.5	34.0	24*1
16	26.00	12.5	4	30.0	6-16	49.5	36.0	27*1
18	29.00	12.5	4	31.5	6-17.5	49.5	39.0	29*1
20	32.00	12.5	4	35.5	6-20	51.0	44.0	33*1
22	35.00	12.5	4	38.6	6-24	51.0	47.0	36*1.5
24	38.00	12.5	4	40.5	6-27	55.0	50.0	38*1.5

Jam nut receptacle



Shell No.	H	B	P ±0.1	S	Thread M	Φ D	R	G		C ±0.1
								Min	Max	
0807	19.0	12	13	17	M14*1.0	24.5	10.5	1.6	3.2	19
08	21.0	13	15	22	M16*1.0	31.5	13.4	1.6	3.2	24
10	21.0	16	19	24	M20*1.5	33.2	14.4	1.6	3.2	27
12	21.0	20	23	27	M24*1.5	39.2	17.4	1.6	3.2	32
14	21.0	23	26	30	M27*1.5	42.2	18.9	1.6	3.2	36
16	21.0	26	29	32	M30*1.5	45.2	20.0	1.6	3.2	38
18	21.0	29	32	36	M33*1.5	47.2	21.7	1.6	3.2	41
20	23.5	32	35	41	M36*1.5	50.2	23.2	1.6	6.4	46
22	23.5	35	38	43	M39*1.5	54.2	25.0	1.6	6.4	50
24	23.5	38	41	46	M42*1.5	56.2	26.2	1.6	6.4	53

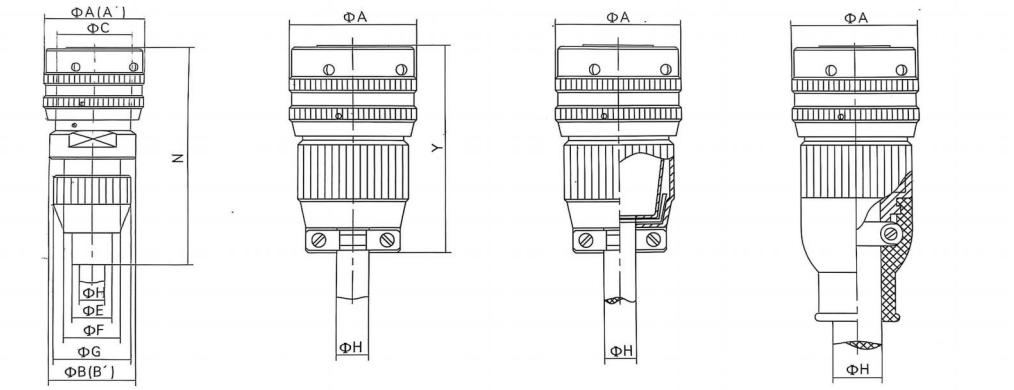
PCB receptacle



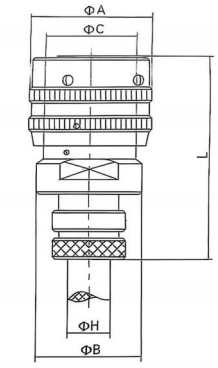
Shell No.	H	B	P ±0.1	S	Thread M	G		C ±0.1
						Min	Max	
0807	19.0	12	13	18	M14*1.0	1.6	3.2	19
08	21.0	13	15	23	M16*1.0	1.6	3.2	24
10	21.0	16	19	26	M20*1.5	1.6	3.2	27
12	21.0	20	23	31	M24*1.5	1.6	3.2	32
14	21.0	23	26	35	M27*1.5	1.6	3.2	36
16	21.0	26	29	37	M30*1.5	1.6	3.2	38
18	21.0	29	32	40	M33*1.5	1.6	3.2	41
20	23.5	32	35	45	M36*1.5	1.6	6.4	46
22	23.5	35	38	49	M39*1.5	1.6	6.4	50
24	23.5	38	41	52	M42*1.5	1.6	6.4	53

Plug shape and size

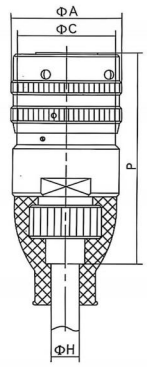
Plug



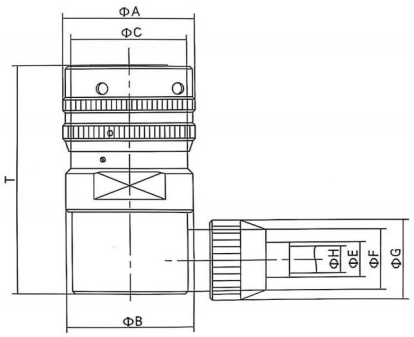
1—接地压紧式　2—电缆夹线式　2P—屏蔽电缆罩式　2M—密封电缆罩式



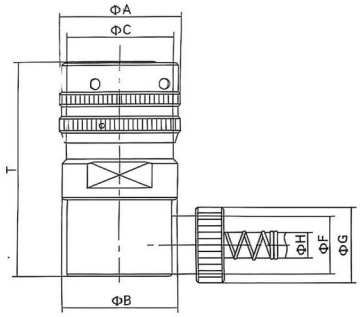
3–简易封装式



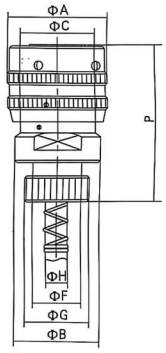
4–防波抗拉式



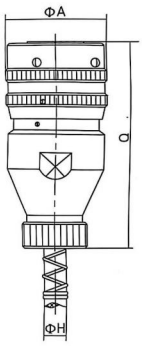
5–弯形护线式



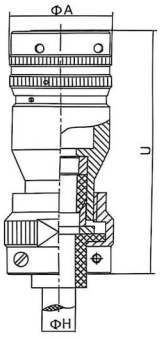
5–6弯形线簧式



6–线簧护线式



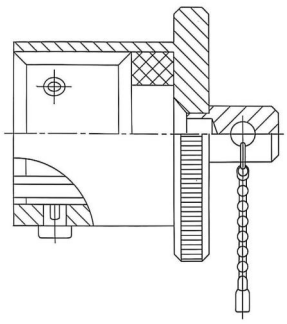
8–护线话筒式

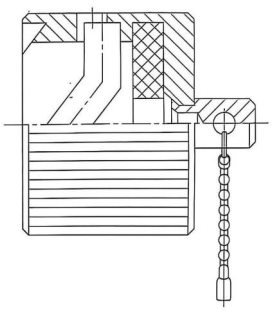


8–2密封抗拉式

Shell No	Φ A	Φ B	Φ C	Φ H	Φ E	Φ F	Φ G	N (max)	L (max)	Y (max)	T (max)	P (max)	Q (max)	U (max)
08	20	18	16	4-7	7.5	12	17.5	55	45	37	45	55	60	65
10	23	22.5	20	4-7	9.1	13	18	60	50	37	45	60	65	70
12	26	25	22.5	5-10	10.0	17	21	60	50	45	54	60	65	70
14	30	29	26	6-14	11.5	16	22	60	50	46	58	60	65	70
16	33.5	33	30	6-16	18	20	30	60	50	47	58	65	70	75
18	35	35	32	6-17.5	20	22	30	60	50	47	60	65	70	75
20	39	39	35.5	6-20	23	28	32	60	50	50	60	70	80	90
22	43	42	37	6-24	24	29	32	60	50	55	65	70	80	90
24	46	46	43	6-27	26	29	32	60	50	56	65	70	80	90

Dust cap





Y50DX series circular electrical connector



Conform to Chinese military connector standard GJB101A-97, Y50DX series is the upgrade from Y50X series, designed as bayonet coupling, small volume, high density, big current

Performance specification

- Operating temperature range: -55 °C~ +150 °C
- Corrosion resistance: Withstand 48 hours salt spray (5% NaCl fog)
- Operating atmospheric pressure: 4.39 KPa ~ 101.33 KPa
- Vibration: 10 Hz ~ 2000 Hz, acceleration 196 m/s2
- Relative humidity: 40 + 2 °C, 90% ~ 95%
- Durability: ≥ 500 cycles

Contact specification

Diameter for contact (Φ)	1.50	2.39	2.50	3.00	3.50	4.00	5.00	6.00	7.00	9.00	10.00	12.00
Current (A)	10	25	30	50	50	60	75	100	100	150	200	250
Resistance (mΩ)	≤ 3	≤ 2	≤ 2	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1

How to Build Your Connector Part Number

0

Y50DX 12 -3 T J ² Ⅲ H S

Basic series

Shell size

10, 12, 14, 16, 18, 20, 22, 24, 28, 32, D4

Number of contact

02, 03, 04, 05, 06

Type of connector T = Plug Z = Receptacle

Type of contact J = Pin K = Socket

SJ = Thru bulkhead Pin SK = Thru bulkhead Socket

Type of plug and receptacle (See below datasheet)

Orientation Omit = N N,W,X,Y,Z(See below)

Finish

P1 = Electroless nickel plating P2 = Bright nickel plating

P3 = Half bright nickel plating H1 = Conductive black

L2 = Olive drab cadmium plating H = Black anodized

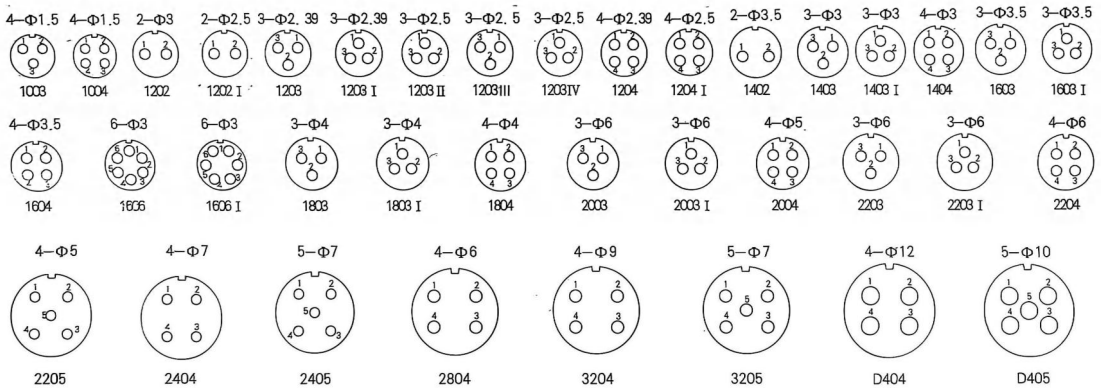
L = Olive drab anodized L1 = Olive drab matte

L3 = White anodized

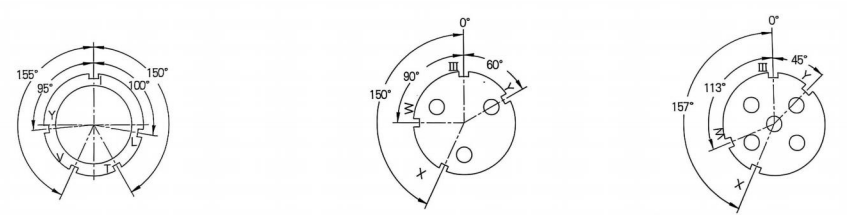
Material of shell

S = Cooper-alloy B = Stainless steel Omit = Aluminium-alloy

Contact layout

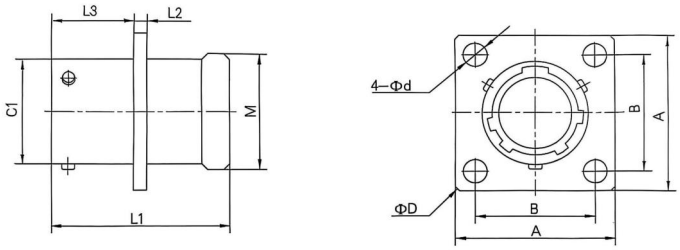


Orientation



Sign	Degree	Letter of sign
I	155°	V
II	95°	Y
III	0°	I
IV	100°	L
V	150°	T

Shell size



Shell No	L1	L2	L3	C1	M	A	B	d	D
32	33.2	2.5	12.5	45.3	46	50	41	5.2	67
38	28.5	3.5	12.5	50.0	50	57	47	5.2	76
D4	70.0	6.0	30.0	70.0	70	80	60	6.5	98

Y50EX series circular electrical connector



Conform to Chinese military connector standard GJB598A-96, Y50EX is designed as bayonet coupling, small volume, high density.

Performance specification

- Operating temperature range: -55 °C~ +125 °C
- Corrosion resistance: Withstand 48 hours salt spray (5% Nacl fog)
- Operating atmospheric pressure: 4.39 KPa ~ 101.33 KPa
- Vibration: 10 Hz ~ 2000 Hz, acceleration 196 m/s2
- Relative humidity: 40 + 2 °C, 90% ~ 95%
- Durability: ≥ 1000 cycles

Contact specification

Contact No.	Cross section for cable (mm^2)	Resistance (mΩ)	Current (A)
20#	0.20	≤5	3.0
	0.30		5.0
	0.50		7.5
16#	0.50	≤3	7.5
	0.80		10.0
	1.25		13.0
12#	2.00	≤2	17.0
	3.15		25.0

How to Build Your Connector Part Number

Y50E X 12 -10 T J ² W H S L

Basic series

Type

X = Solder and hermetic by adhesive
P = Solder shielding and hermetic by adhesive
A = PCB, solder and hermetic by adhesive
C = Hermetic by adhesive without magnetism

Shell size

06, 08, 10, 12, 14, 16, 18, 20, 22, 24

Number of contact 1~67

Type of connector T = Plug Z = Receptacle

Type of contact J = Pin K = Socket
SJ = Thru bulkhead Pin SK = Thru bulkhead Socket

Type of plug and receptacle (See below datasheet)

Orientation Omit = N N,W,X,Y,Z(See below)

Finish

P1 = Electroless nickel plating
P2 = Bright nickel plating
P3 = Half bright nickel plating
E = Stainless steel passivated
H1 = Conductive black
L2 = Olive drab cadmium plating
H = Black anodized
L = Olive drab anodized
L1 = Olive drab matte

Material of shell

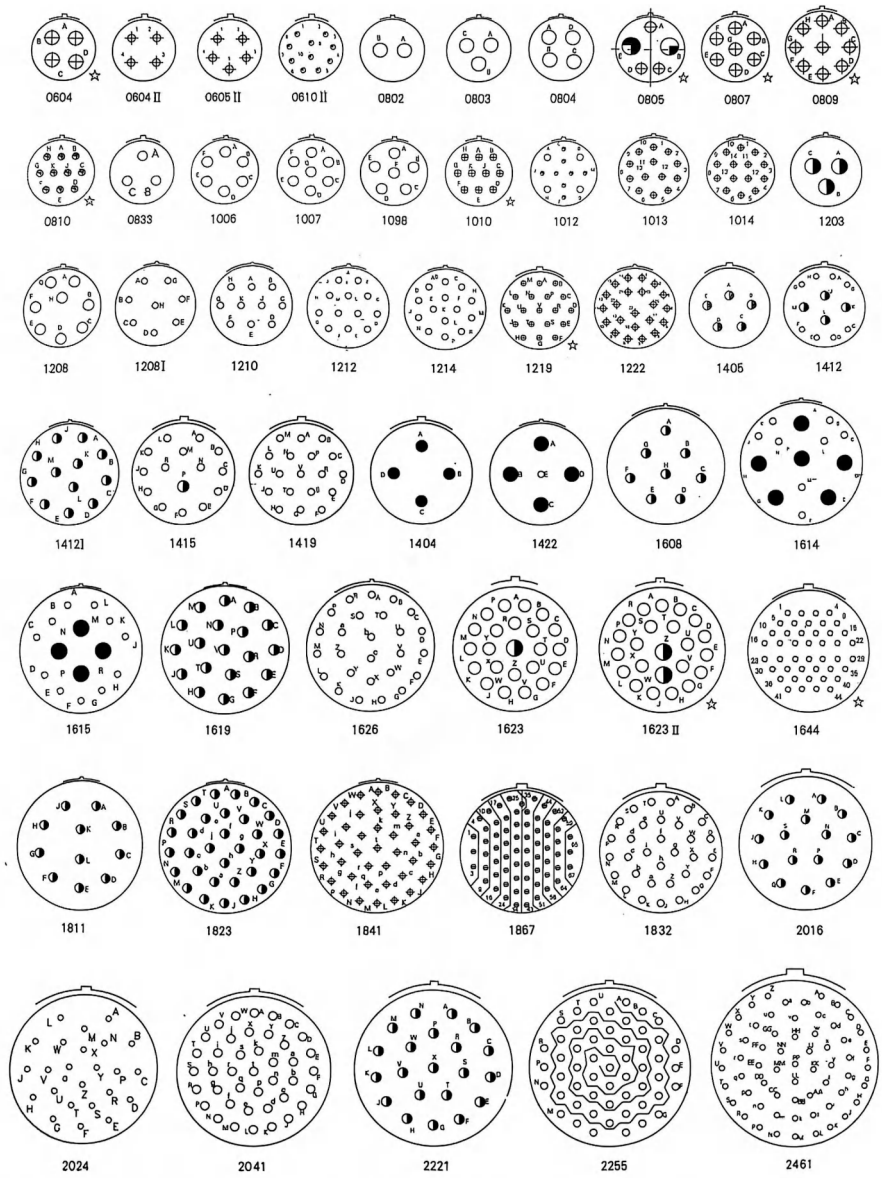
S = Cooper-alloy B = Stainless steel Omit = Aluminium-alloy

Length

Datasheet

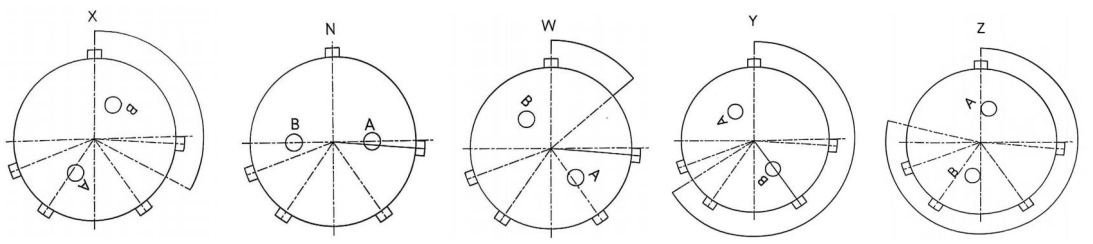
Sign	Plug	Sign	Plug
1	Earthing jam	8	Protect cable
2	Cable connecting	8-2	Sealed tensile
2X	Double cable clamp	10	Square flange (front)
2M	Cable sealed	20	Square flange (back)
2P	Shielded cable	11	Circular flange
3	Sealed	14	Jam nut
4	Avoid-wave and tensile	10-2	Square flange with cable clamp
5	90°elbow and protect cable	11-2	Circular flange with cable clamp
6	Thread spring and protect cable	24	Circular jam nut
5-6	90° elbow line spring		

Contact layout



注. 1. 接触件直径标志 ◐Φ0.5 ◉Φ0.6 ⊕Φ0.8 ◔Φ2 ○Φ1 ◑Φ1.59 ●Φ2.39

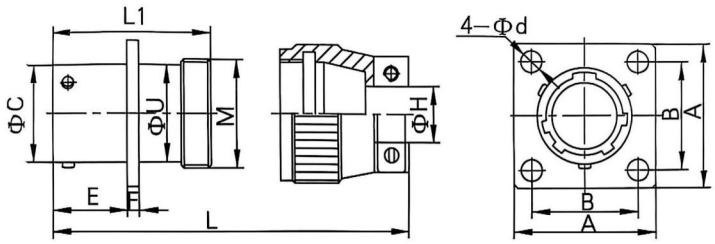
Orientation



Shell No.	Degree (N = 0°)			
	W	X	Y	Z
8	58°	122°		
	60°	210°		
	60°	210°		
	45°			
	90°			
	60°	155°	270°	295°
10	90°			
	90°	180°	240°	270°
	60°	150°	270°	295°
12			180°	
	90°	112°	203°	292°
	60°	155°	270°	295°
14	40°	92°	184°	273°
	43°	90°		
	17°	110°	155°	234°
	15°	90°	180°	270°
	30°	165°	315°	
16	54°	152°	180°	331°
	158°	270°		
	60°		275°	338°
	30°	165°	315°	
18	30°	165°	315°	
	85°	138°	222°	265°
	180°	193°	285°	350°
20	238°	318°	333°	347°
	63°	144°	252°	333°
	45°	126°	225°	
	70°	145°	215°	290°
	72°	144°	216°	288°
	72°	144°	216°	288°
22	16°	135°	175°	349°
	72°	144°	216°	288°
	30°	142°	226°	314°
	72°	145°	215°	288°
24	90°	180°	270°	324°

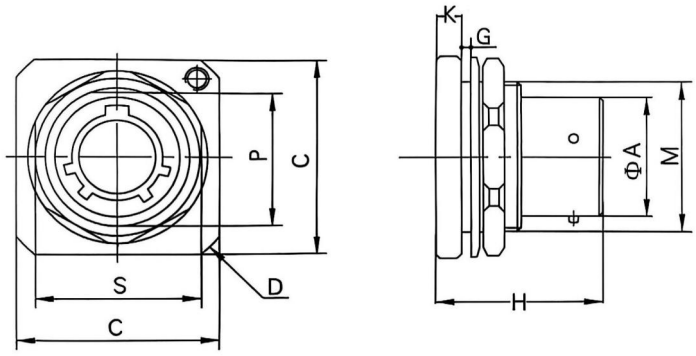
Shell size

Square flange receptacle



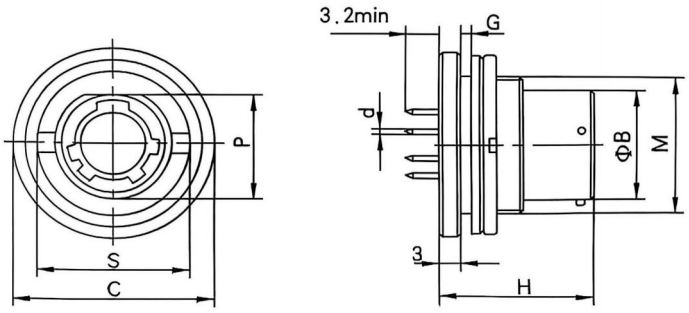
Shell No.	Φ C	Φ H	Φ U	L	L1	F	M	E		A	B	Φ d
								Front	Back			
06	8.8	3-6	10.90	36.5	21.5	2.0		10.95	14.5	18.10	12.50	3.2
0807	12.0	4-6	12.00			1.5	12×1		14.5	21.00	15.00	3.6
08	12.0	4-6	12.80	36.5	21.5	1.5	1/2-20	10.95	14.5	20.60	15.90	3.6
10	15.0	4-8	16.01	36.5	21.5	1.5	5/8-24	10.95	14.5	23.80	18.30	3.6
12	19.1	5-10	19.10	38.5	21.5	2.0	3/4-20	10.95	14.5	26.20	20.62	3.6
14	22.2	6-14	22.30	43.0	21.5	2.0	21×1	10.95	14.5	30.00	23.00	3.6
16	25.4	6-16	25.54	43.0	21.5	2.0	1-20	10.95	14.5	31.00	24.60	3.6
18	28.6	6-17.5	28.60	44.5	21.5	2.0	27.4×1	10.95	14.5	33.30	27.00	3.6
20	31.8	6-20	31.50	49.0	26.5	2.6	30×1	12.50	19.5	36.50	29.36	3.6
22	34.9	6-24	35.00	49.0	26.5	2.6	35×1	12.50	19.5	40.00	32.00	3.6
24	38.1	6-27	38.00	53.0	26.5	2.6	37.4-20	12.50	19.5	42.90	34.93	3.6

Jam nut receptacle



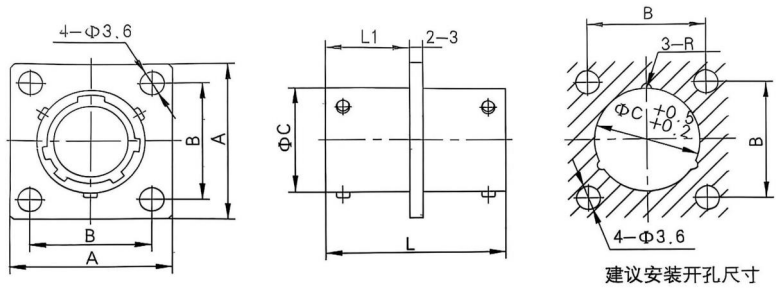
Shell No.	G		K	H ±0.1	A ±0.1	S ±0.1	P ±0.1	C ±0.1	D	M
	Min	Max								
06	1.6	3.2	3.2	21.0	8.80	16.50	10.10	18.00	24.00	1/16-26
0807	1.6	3.2	2.5	19.0	12.00	18.00	13.00	19.00	24.50	14×1
08	1.6	3.2	3.2	21.0	12.00	19.10	13.20	23.80	27.25	9/16-20
10	1.6	3.2	3.2	21.0	15.00	22.20	16.50	27.00	30.40	11/16-24
12	1.6	3.2	3.2	21.0	19.10	27.00	21.20	31.80	35.20	7/8-20
14	1.6	3.2	3.2	21.0	22.20	32.00	24.20	34.90	38.40	1-20
16	1.6	3.2	3.2	21.0	25.40	33.30	27.35	38.10	41.50	1^{1}/9-20
18	1.6	3.2	3.2	21.0	28.60	36.50	30.35	41.30	44.70	1^{1}/4-18
20	1.6	6.4	6.4	26.5	31.78	39.70	33.70	46.00	49.40	1^{3}/8-18
22	1.6	6.4	6.4	26.5	34.95	44.00	36.60	49.20	52.60	1^{1}/2-18
24	1.6	6.4	6.4	26.5	38.10	46.00	40.05	52.50	55.80	1^{5}/8-18

PCB receptacle



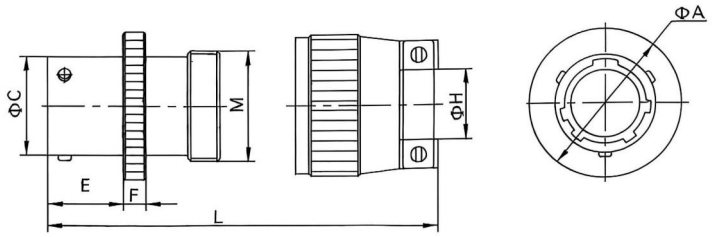
Shell No.	G		K	H	B	M	C ±0.1	Φ d	P ±0.1	S
	Min	Max								
06	1.6	3.2	3.2	19	8.8	7/16-28	18.0	0.8	---	---
0807	1.6	3.2	2.5	19	12.0	14×1	19.0	0.8	13.0	17.0
08	1.6	3.2	3.2	19	12.0	9/16-20	23.8	1.0	13.2	23.0
10	1.6	3.2	3.2	19	15.0	11/16-24	26.0	1/1.5	16.5	25.0
12	1.6	3.2	3.2	19	19.1	7/8-20	31.0	1/1.5	21.2	30.0
14	1.6	3.2	3.2	19	22.2	1-20	34.9	1/1.5	24.2	34.0
16	1.6	3.2	3.2	19	25.4	1^{1}/9-20	36.5	1/1.5	27.4	35.5
18	1.6	3.2	3.2	19	28.6	1^{1}/4-18	41.0	1/1.5	30.4	38.5
20	1.6	6.4	6.4	24	31.8	1^{3}/8-18	43.0	1/1.5	30.7	42.0
22	1.6	6.4	6.4	24	34.9	1^{1}/2-18	46.5	1/1.5	36.6	45.5
24	1.6	6.4	6.4	24	38.1	1^{5}/8-18	50.0	1.0	40.1	48.5

Thru bulkhead square flange receptacle



Shell No	A	B	Φ C	L	L1	R
0807	20.60	15.00	12.00	28.0	13	1.5
08	20.60	15.09	12.00	33.5	14.5	1.5
10	23.80	18.30	15.00	33.5	14.5	1.5
12	26.20	20.60	19.10	33.5	14.5	1.5
14	30.00	23.00	22.20	33.5	14.5	1.5
16	31.00	24.60	25.40	33.5	14.5	1.5
18	33.30	27.00	28.60	33.5	14.5	1.5
20	36.50	29.36	31.78	36.0	16.5	1.5
22	40.00	32.00	34.95	36.0	16.5	1.5
24	42.90	34.93	38.10	36.0	16.5	2.0

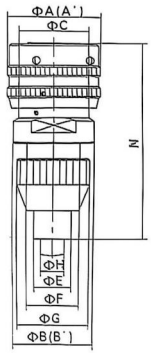
Circular flange receptacle



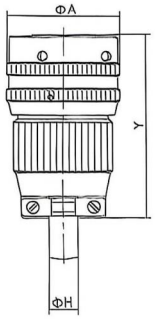
Shell No.	Φ C	E	F	Φ H	L	Φ A	M
08	12.00	10.05	3.5	4-7	36.5	20.0	1/2-20
10	15.00	10.90	3.5	4-7	36.5	23.0	5/8-24
12	19.10	10.95	3.5	5-10	36.5	27.0	3/4-20
14	22.20	10.95	3.5	6-14	43.0	30.0	21×1
16	25.40	10.95	3.5	6-16	43.0	33.5	1-20
18	28.60	10.95	3.5	6-17.5	44.5	36.5	27.4×1
20	31.78	12.50	4.0	6-20	49.0	40.0	30×1
22	34.95	12.50	4.0	6-24	49.0	43.0	35×1
24	38.10	12.50	4.0	6-27	53.0	47.0	37.4-20

Plug shape and size

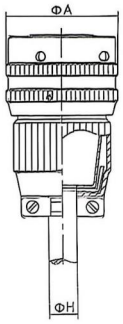
Plug



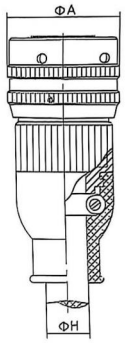
1–接地压紧式



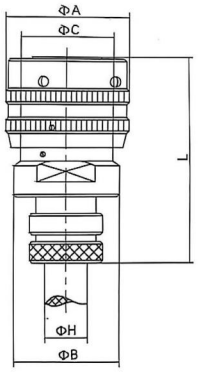
2–电缆夹线式



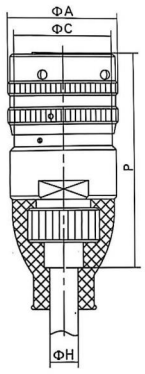
2P–屏蔽电缆罩式



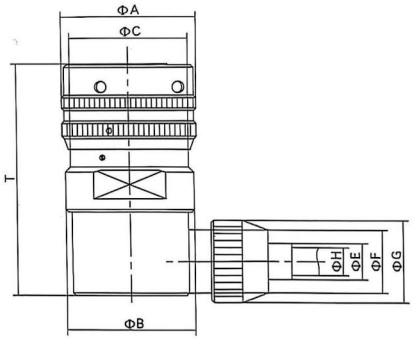
2M–密封电缆罩式



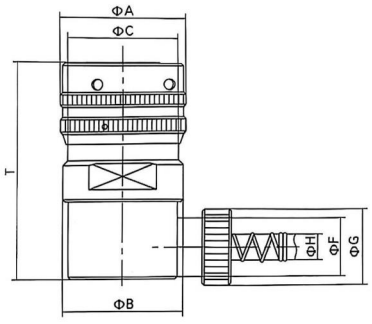
3–简易封装式



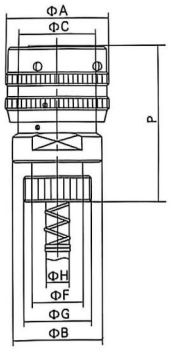
4–防波抗拉式



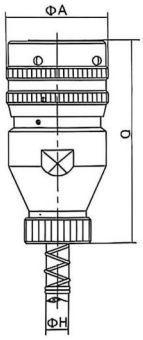
5–弯形护线式



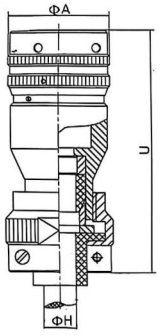
5–6弯形线簧式



6–线簧护线式



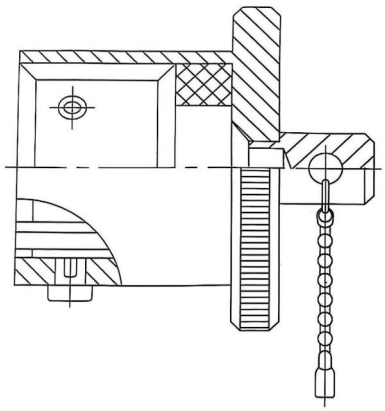
8–护线话筒式

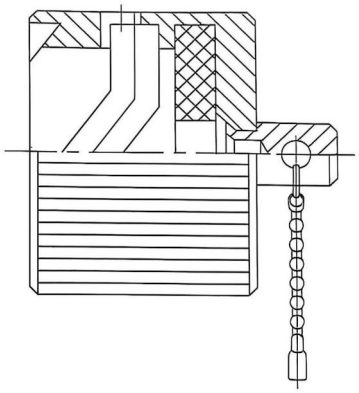


8–2密封抗拉式

Shell No	Φ A	Φ B	Φ C	Φ H	Φ E	Φ F	Φ G	N (max)	L (max)	Y (max)	T (max)	P (max)	Q (max)	U (max)
06	16.0	---	12.5	3-6	---	---	---	---	---	---	---	---	---	---
08	19.0	18.0	15.5	4-7	7.5	12	17.5	52	45	30	44	50	55	60
10	22.0	21.0	19.0	4-7	9.1	12	18	52	50	31	44	55	60	65
12	26.0	26.0	22.0	5-10	9.5	13	18	57	50	42	44	55	60	65
14	28.5	27.5	24.0	6-14	10.3	15	23.5	57	50	45	44	55	60	65
16	31.0	31.0	27.4	6-16	18	21	26.5	57	50	45	48	60	65	70
18	35.0	35.0	29.4	6-17.5	19.5	20	27	57	50	50	48	60	65	70
20	39.0	39.0	34.0	6-20	22	21	28	60.5	50	52	48	65	75	85
22	43.0	42.0	36.0	6-24	26	21	28	60.5	50	52	52	65	75	85
24	45.0	45.0	40.5	6-27	29	21	28	60.5	50	52	52	65	75	85

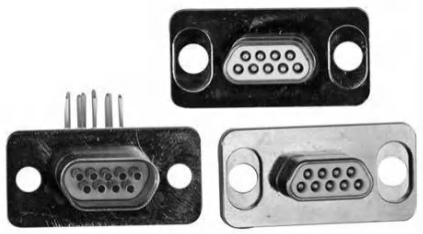
Dust cap





J29 series rectangle electrical connector

Performance specification



- Temperature: -55 oC ~ +125 oC
- Vibration: at 10Hz ~ 2000Hz, acceleration 200 m/s2
- Shock: at 1200 m/s2 , 6ms
- Rated current: 5 A
- Contact resistance: ≤ 10 mΩ
- Insulation resistance: ≥ 5000 MΩ
- Dielectric strength: 1500V DC
- Endurance: ≥ 500 cycles

How to Build Your Connector Part Number

J29A -9 TJ H P A D

Basic series

Contact number : 9,15,21,25,31,37,51,66

Style : ZK=Receptacle with socket TJ=Plug with pin

Type of termination :

Omit = Crimp H = Solder N = Straight PCB

W = 90o elbow PCB (1.91×2.54) WI = 90o elbow PCB (3.82×2.54)

Locking components :

L = Unfixed (L, L1 , L2 , L3 , L4)

P = Fixed (P, P1 , P2 , P3 , ... P16)

Type of shell :

Omit = Normal

A = Width of flange is same as back shell

A1 = Width of flange is between normal and A

Type of tail cover : D,D1,D2

J29M -9 TJ H P5

Basic series

Contact number : 9,15,21,25,31,37,51,66

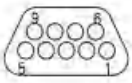
Style : ZK=Receptacle with socket TJ=Plug with pin

Type of termination :

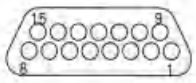
Omit = Crimp H = Solder

Locking components : Only P5

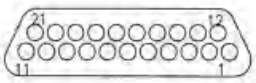
Contact layout



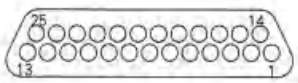
9



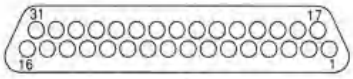
15



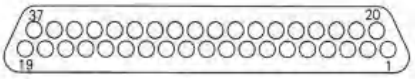
21



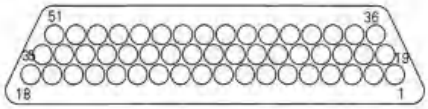
25



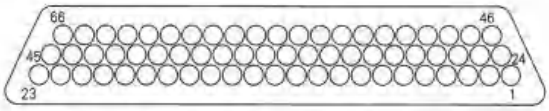
31



37



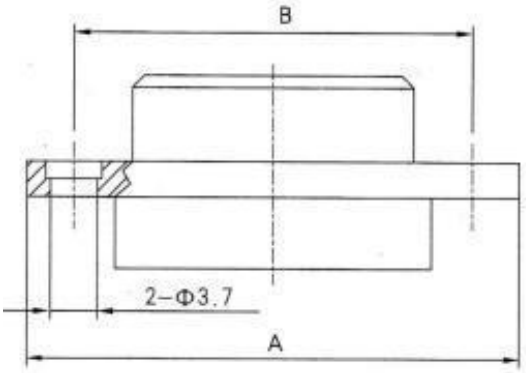
51

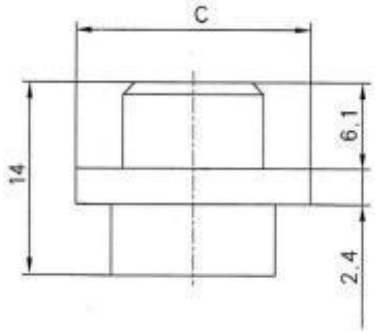


66

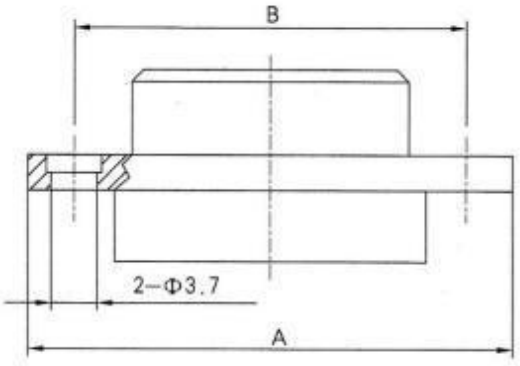
Shell size

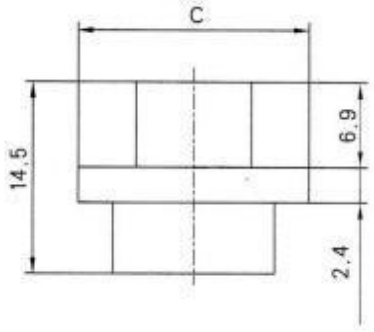
Plug (crimp)





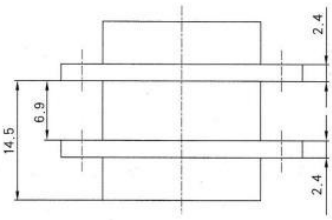
Receptacle

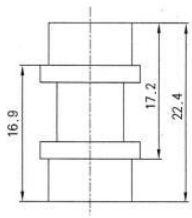




Part number	A	B	C	Part number	A	B	C
J29A-9TJ	26.1	20.1	13.0	J29A-9ZK	26.1	20.1	13.0
J29A-15TJ	31.6	25.6	13.0	J29A-15ZK	31.6	25.6	13.0
J29A-21TJ	37.3	31.3	13.0	J29A-21ZK	37.3	31.3	13.0
J29A-25TJ	42.0	36.0	13.0	J29A-25ZK	42.0	36.0	13.0
J29A-31TJ	47.8	41.8	13.0	J29A-31ZK	47.8	41.8	13.0
J29A-37TJ	53.5	47.5	13.0	J29A-37ZK	53.5	47.5	13.0
J29A-51TJ	52.0	46.0	14.6	J29A-51ZK	52.0	46.0	14.6
J29A-66TJ	61.5	55.5	14.6	J29A-66ZK	61.5	55.5	14.6

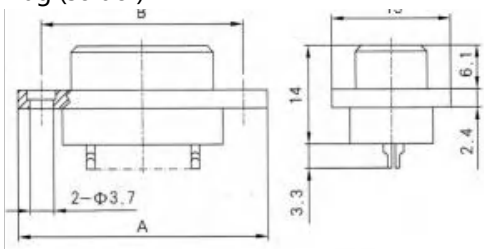
Size after mounting



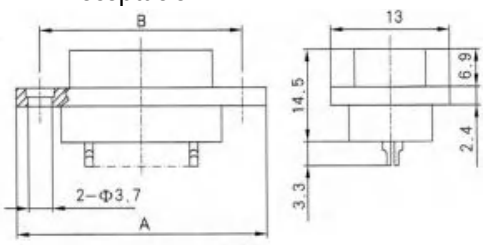


Plug (solder)

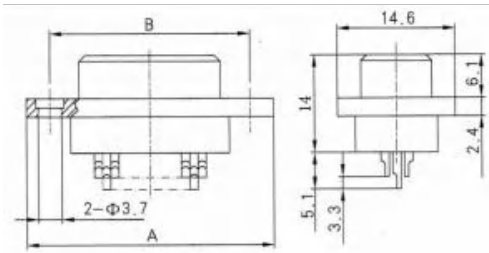
Receptacle



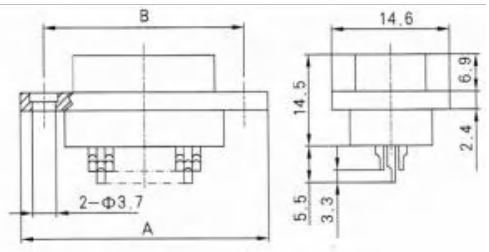
J29A-9、15、25、37 TJH



J29A-9、15、25、37 ZKH



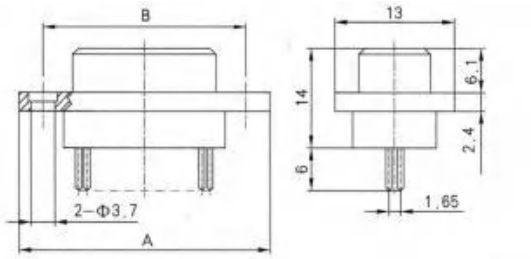
J29A-51、66 TJH



J29A-51、66 ZKH

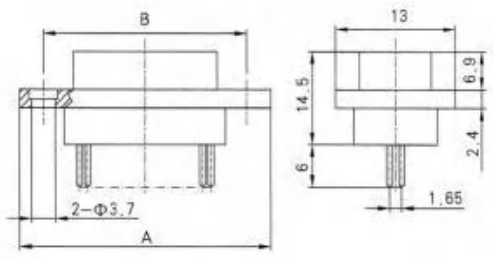
Part number	A	B	Part number	A	B
J29A-9TJH	26.1	20.1	J29A-9ZKH	26.1	20.1
J29A-15TJH	31.6	25.6	J29A-15ZKH	31.6	25.6
J29A-25TJH	42.0	36.0	J29A-25ZKH	42.0	36.0
J29A-37TJH	53.5	47.5	J29A-37ZKH	53.5	47.5
J29A-51TJH	52.0	46.0	J29A-51ZKH	52.0	46.0
J29A-66TJH	61.5	55.5	J29A-66ZKH	61.5	55.5

Plug (straight PCB 1.91×1.65)

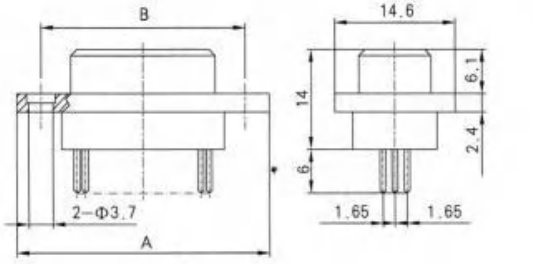


J29A-9、15、25、37TJN

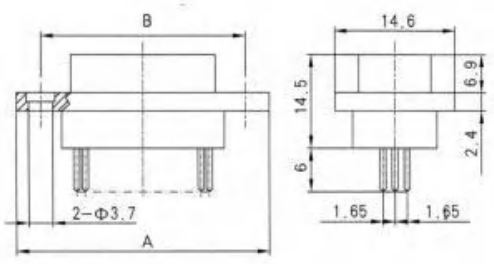
Receptacle



J29A-9、15、25、37ZKN



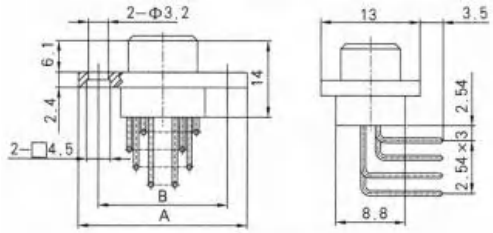
J29A-51、66TJN



J29A-51、66ZKN

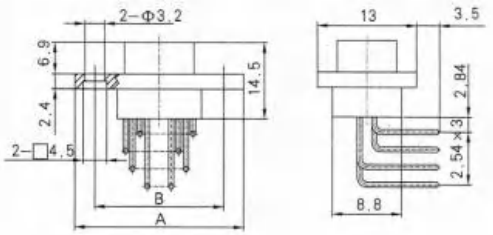
Part number	A	B	Part number	A	B
J29A-9TJN	26.1	20.1	J29A-9ZKN	26.1	20.1
J29A-15TJN	31.6	25.6	J29A-15ZKN	31.6	25.6
J29A-25TJN	42.0	36.0	J29A-25ZKN	42.0	36.0
J29A-37TJN	53.5	47.5	J29A-37ZKN	53.5	47.5
J29A-51TJN	52.0	46.0	J29A-51ZKN	52.0	46.0
J29A-66TJN	61.5	55.5	J29A-66ZKN	61.5	55.5

Plug (90° elbow PCB 1.91×2.54)

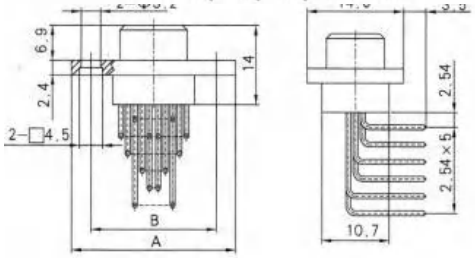


J29A-9、15、25、37TJW I

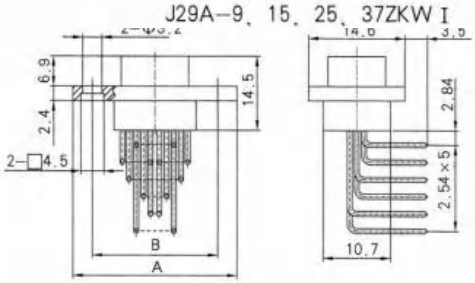
Receptacle



J29A-9、15、25、37ZKW I



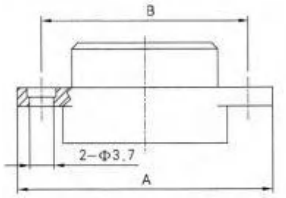
J29A-51、66TJW I



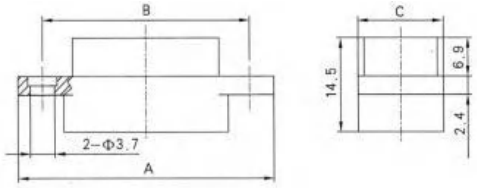
J29A-51、66ZKW I

Part number	A	B	Part number	A	B
J29A-9TJWI	26.1	20.1	J29A-9ZKWI	26.1	20.1
J29A-15TJWI	31.6	25.6	J29A-15ZKWI	31.6	25.6
J29A-25TJWI	42.0	36.0	J29A-25ZKWI	42.0	36.0
J29A-37TJWI	53.5	47.5	J29A-37ZKWI	53.5	47.5
J29A-51TJWI	52.0	46.0	J29A-51ZKWI	52.0	46.0
J29A-66TJWI	61.5	55.5	J29A-66ZKWI	61.5	55.5

Plug (crimp, A)

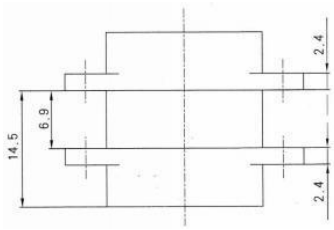


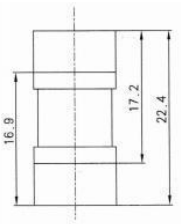
Receptacle



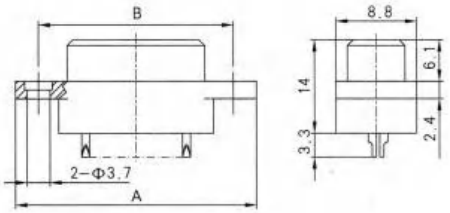
Part number	A	B	C	Part number	A	B	C
J29A-9TJ-A	26.1	20.1	8.8	J29A-9ZK-A	2.1	20.1	8.8
J29A-15TJ-A	31.6	25.6	8.8	J29A-15ZK-A	31.6	25.6	8.8
J29A-25TJ-A	42.0	36.0	8.8	J29A-25ZK-A	42.0	36.0	8.8
J29A-37TJ-A	53.5	47.5	8.8	J29A-37ZK-A	53.5	47.5	8.8
J29A-51TJ-A	52.0	46.0	10.7	J29A-51ZK-A	52.0	46.0	10.7
J29A-66TJ-A	61.5	55.5	10.7	J29A-66ZK-A	61.5	55.5	10.7

Size after mounting

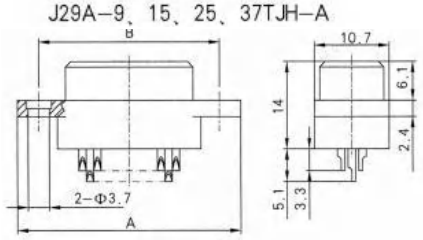




Plug（solder，A）

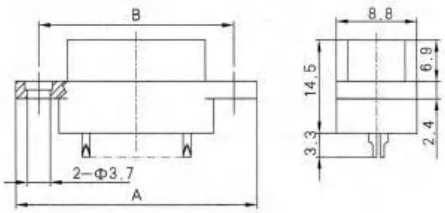


J29A-9、15、25、37TJH-A

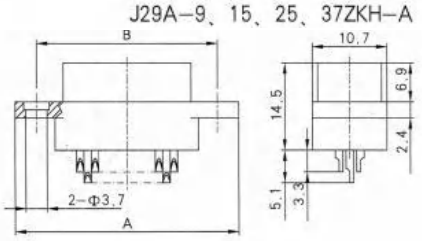


J29A-51、66TJH-A

Receptacle



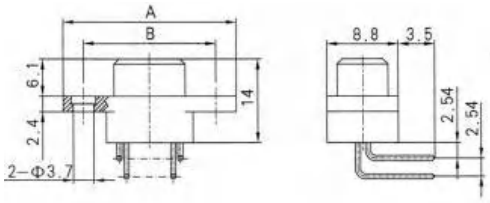
J29A-9、15、25、37ZKH-A



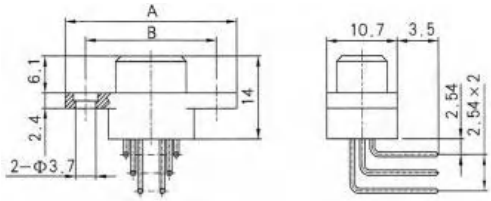
J29A-51、66ZKH-A

Part number	A	B	Part number	A	B
J29A-9TJH-A	26.1	20.1	J29A-9ZKH-A	26.1	20.1
J29A-15TJH-A	31.6	25.6	J29A-15ZKH-A	31.6	25.6
J29A-25TJH-A	42.	36.0	J29A-25ZKH-A	42.0	36.0
J29A-37TJH-A	53.5	47.5	J29A-37ZKH-A	53.5	47.5
J29A-51TJH-A	52.0	46.0	J29A-51ZKH-A	52.0	46.0
J29A-66TJH-A	61.5	55.5	J29A-66ZKH-A	61.5	55.5

Plug (90° elbow PCB, A, 1.91×2.54)

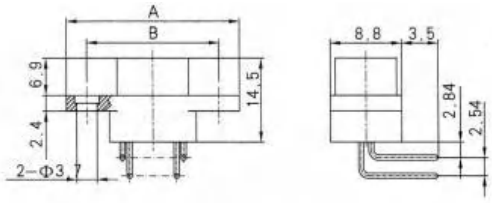


J29A-9、15、25、37TJW-A

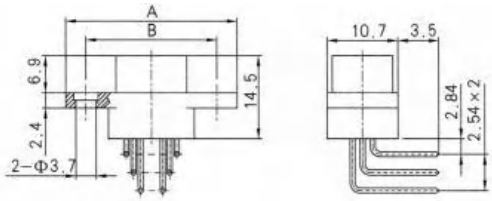


J29A-51、66TJW-A

Receptacle



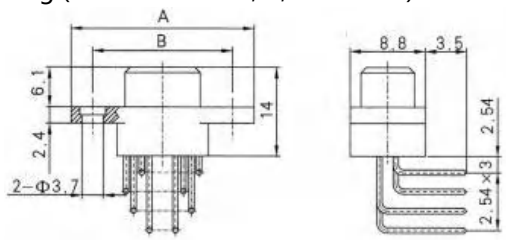
J29A-9、15、25、37ZKW-A



J29A-51、66ZKW-A

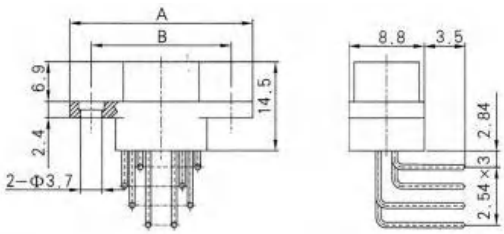
Part number	A	B	Part number	A	B
J29A-9TJW-A	26.1	20.1	J29A-9ZKW-A	26.1	20.1
J29A-15TJW-A	31.6	25.6	J29A-15ZKW-A	31.6	25.6
J29A-25TJW-A	42.0	36.0	J29A-25ZKW-A	42.0	36.0
J29A-37TJW-A	53.5	47.5	J29A-37ZKW-A	53.5	47.5
J29A-51TJW-A	52.0	46.0	J29A-51ZKW-A	52.0	46.0
J29A-66TJW-A	61.5	55.5	J29A-66ZKW-A	61.5	55.5

Plug (90° elbow PCB, A, 3.82×2.54)

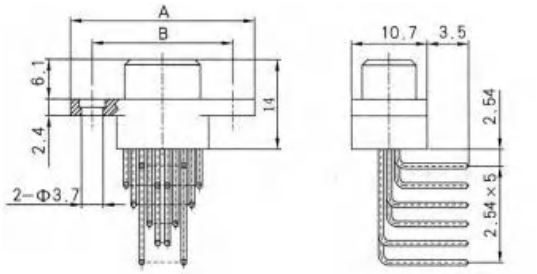


J29A-9、15、25、37TJW I -A

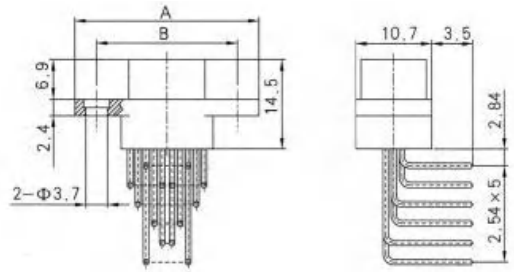
Receptacle



J29A-9、15、25、37ZKW I -A



J29A-51、66TJW I -A

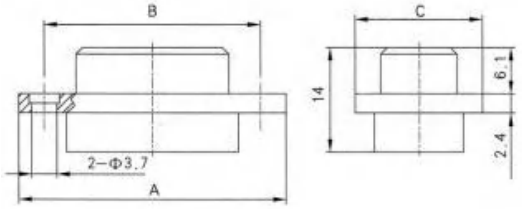


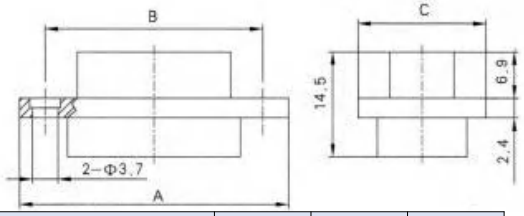
J29A-51、66ZKW I -A

Part number	A	B	Part number	A	B
J29A-9TJWI-A	26.1	20.1	J29A-9ZKWI-A	26.1	20.1
J29A-15TJWI-A	31.6	25.6	J29A-15ZKWI-A	31.6	25.6
J29A-25TJWI-A	42.0	36.0	J29A-25ZKWI-A	42.0	36.0
J29A-37TJWI-A	53.5	47.5	J29A-37ZKWI-A	53.5	47.5
J29A-51TJWI-A	52.0	46.0	J29A-51ZKWI-A	52.0	46.0
J29A-66TJWI-A	61.5	55.5	J29A-66ZKWI-A	61.5	55.5

Plug (crimp,A1)

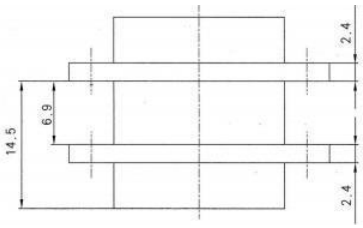
Receptacle

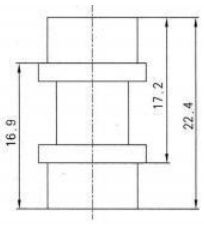




Product	A	B	C	Product	A	B	C
J29A-9TJ-A1	26.1	20.1	11.0	J29A-9ZK-A1	26.1	20.1	11.0
J29A-15TJ-A1	31.6	25.6	11.0	J29A-15ZK-A1	31.6	25.6	11.0
J29A-25TJ-A1	42.0	36.0	11.0	J29A-25ZK-A1	42.0	36.0	11.0
J29A-37TJ-A1	53.5	47.5	11.0	J29A-37ZK-A1	53.5	47.5	11.0
J29A-51TJ-A1	52.0	46.0	12.6	J29A-51ZK-A1	52.0	46.0	12.6
J29A-66TJ-A1	61.5	55.5	12.6	J29A-66ZK-A1	61.5	55.5	12.6

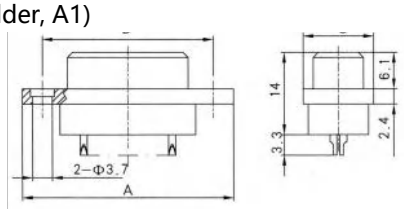
Size after mounting



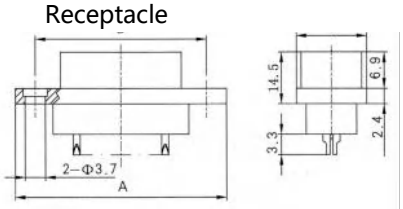


Plug (solder, A1)

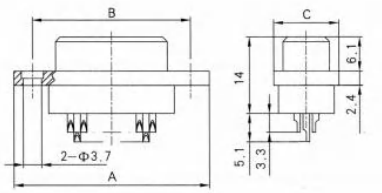
Receptacle



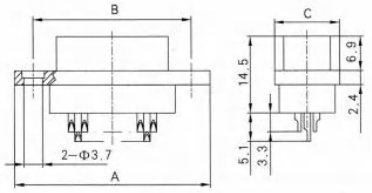
J29A-25、37TJH-A1



J29A-25、37ZKH-A1



J29A-51TJH-A1

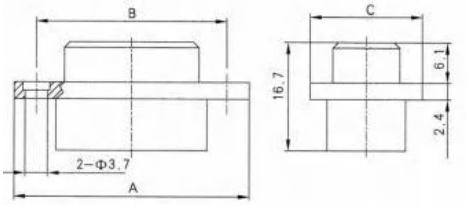


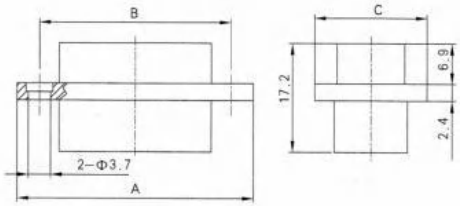
J29A-51ZKH-A1

Part number	A	B	C	Part number	A	B	C
J29A-9TJH-A1	26.1	20.1	11.0	J29A-9ZKH-A1	26.1	20.1	11.0
J29A-15TJH-A1	31.6	25.6	11.0	J29A-15ZKH-A1	31.6	25.6	11.0
J29A-25TJH-A1	42.0	36.0	11.0	J29A-25ZKH-A1	42.0	36.0	11.0
J29A-37TJH-A1	53.5	47.5	11.0	J29A-37ZKH-A1	53.5	47.5	11.0
J29A-51TJH-A1	52.0	46.0	12.6	J29A-51ZKH-A1	52.0	46.0	12.6
J29A-66TJH-A1	61.5	55.5	12.6	J29A-66ZKH-A1	61.5	55.5	12.6

Plug (J29M, crimp)

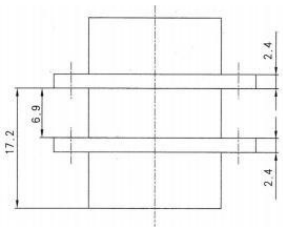
Receptacle

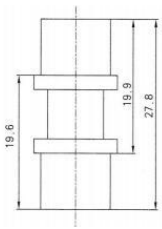




Part number	A	B	C	Part number	A	B	C
J29M-9TJ	26.1	20.1	13.0	J29M-9ZK	26.1	20.1	13.0
J29M-15TJ	31.6	25.6	13.0	J29M-15ZK	31.6	25.6	13.0
J29M-25TJ	42.0	36.0	13.0	J29M-25ZK	42.0	36.0	13.0
J29M-37TJ	53.5	47.5	13.0	J29M-37ZK	53.5	47.5	13.0
J29M-51TJ	52.0	46.0	14.6	J29M-51ZK	52.0	46.0	14.6
J29M-66TJ	61.5	55.5	14.6	J29M-66ZK	61.5	55.5	14.6

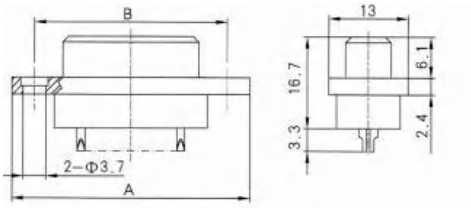
Size after mounting



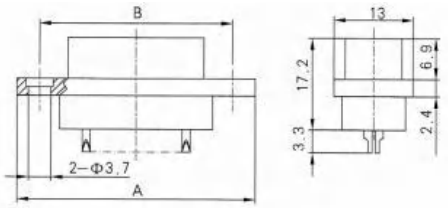


Plug (J29M, solder)

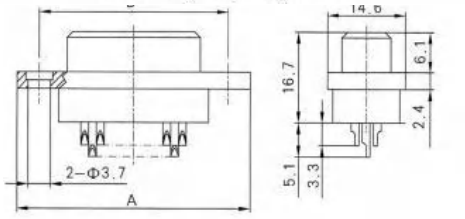
Receptacle



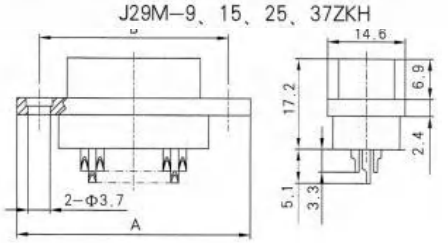
J29M–9、15、25、37TJH



J29M–9、15、25、37ZKH



J29M–51、66TJH

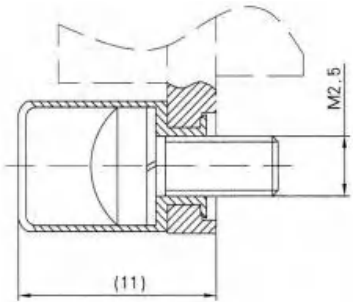


J29M–51、66ZKH

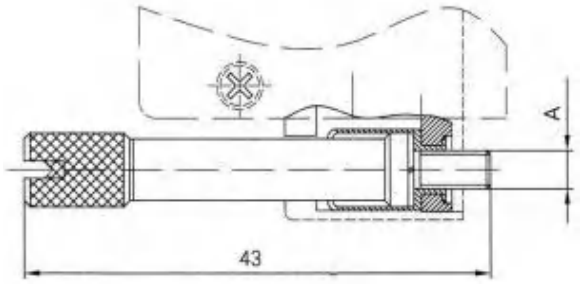
Part number	A	B	Part number	A	B
J29M-9TJH	26.1	20.1	J29M-9ZKH	26.1	20.1
J29M-15TJH	31.6	25.6	J29M-15ZKH	31.6	25.6
J29M-25TJH	42.0	36.0	J29M-25ZKH	42.0	36.0
J29M-37TJH	53.5	47.5	J29M-37ZKH	53.5	47.5
J29M-51TJH	52.0	46.0	J29M-51ZKH	52.0	46.0
J29M-66TJH	61.5	55.5	J29M-66ZKH	61.5	55.5

Locking components

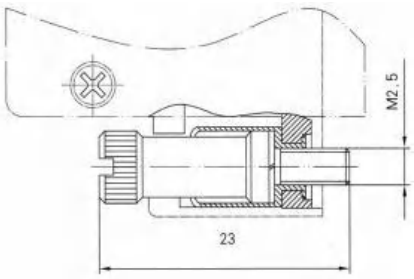
Type L



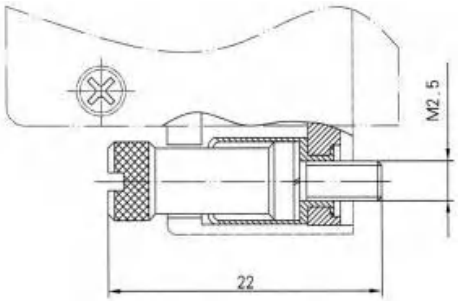
Type L1, L2



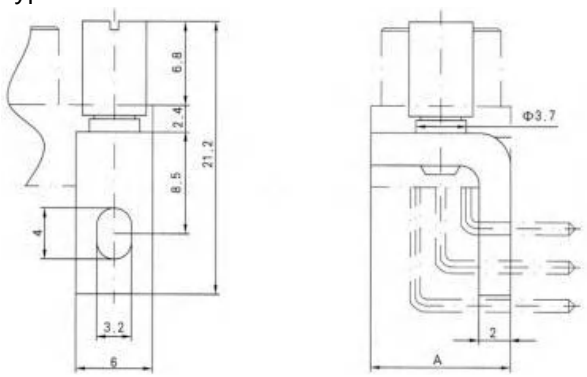
Type L3



Type L4

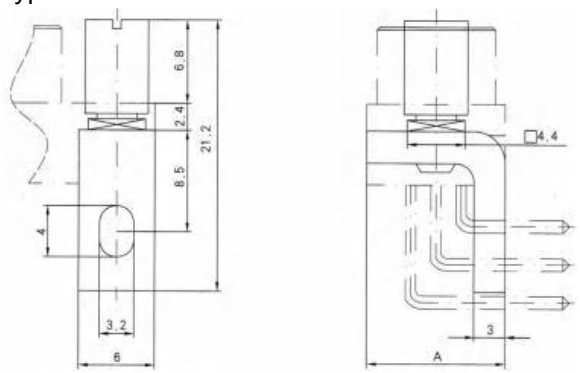


Type P



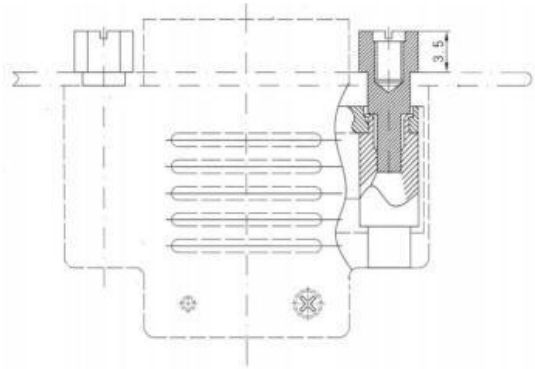
Contact number	A
9 ~ 37	8.8
51 ~ 66	10.7

Type P15

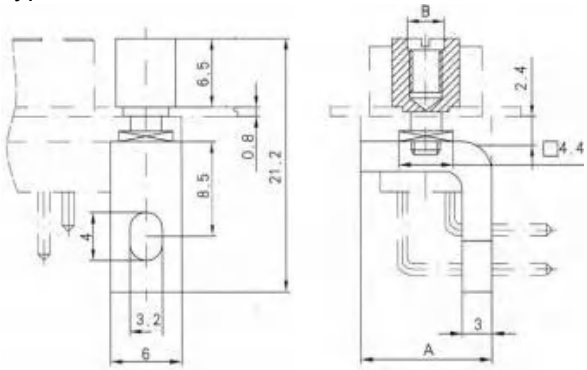


Contact number	A
9 ~ 37	13.0
51 ~ 66	14.6

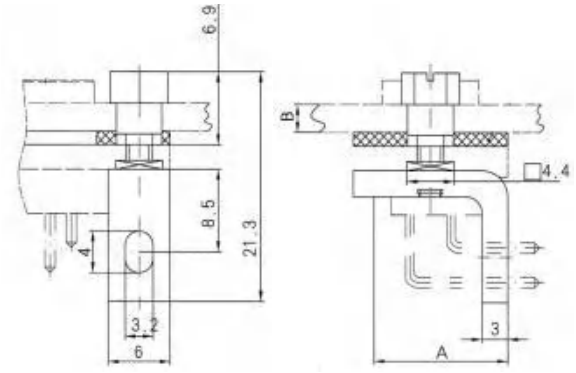
Type P1



Type P3，P6

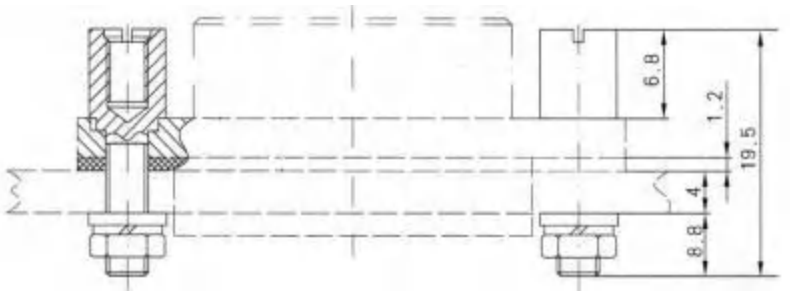


Contact number	A
9 ~ 37	13.0
51 ~ 66	14.6

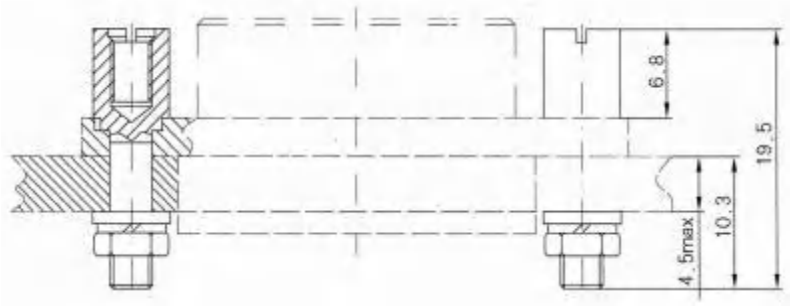


Contact number	A	B
9 ~ 37	13.0	2.5
51 ~ 66	14.6	2.0

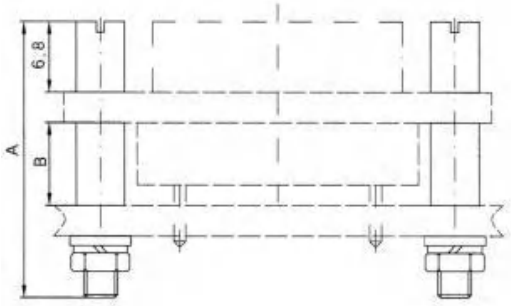
Type P5



Type P8

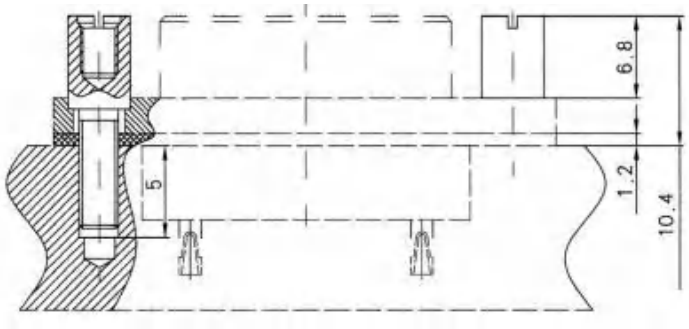


Type P9,P11

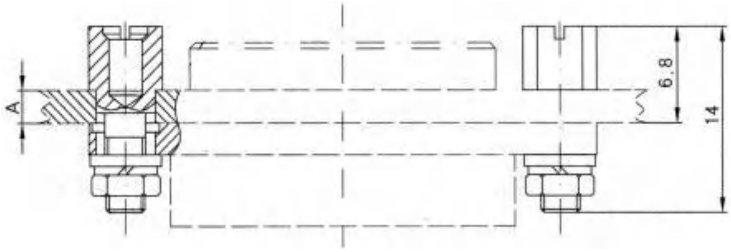


No.	A	B
P_9	27	8.0
P_{11}	24	7.2

Type P12



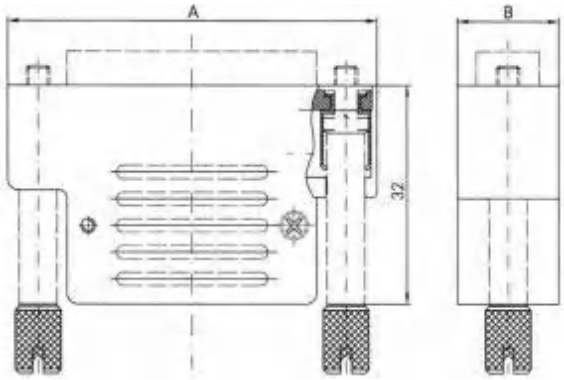
Type P14，P16



No.	A
P14	2.0 ~ 2.5
P16	1.0 ~ 1.5

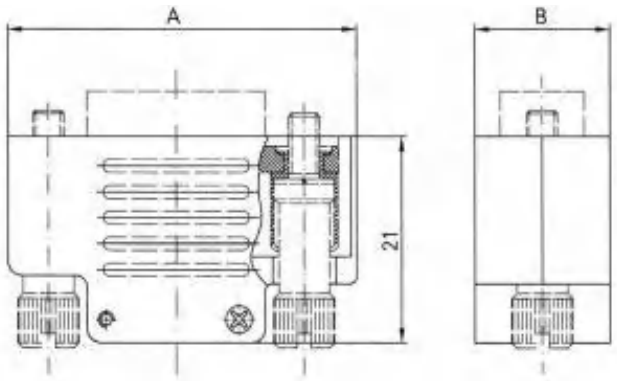
Accessory and tail cover

Type D



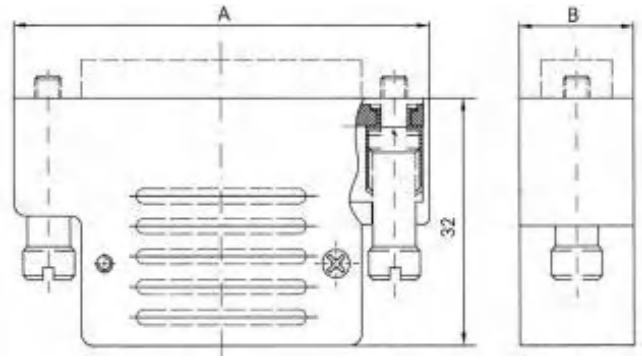
Matched Products	A	B	Matched Products	A	B
J29A-9	27.8	15	J29A-31	49.3	15.0
J29A-15	33.3	15	J29A-37	55.3	15.0
J29A-21	38.9	15	J29A-51	53.8	16.6
J29A-25	43.8	15	J29A-66	63.3	16.6

Type D1



Matched Products	A	B	Matched Products	A	B
J29A-9	27.8	15.0	J29A-31	49.3	15.0
J29A-15	33.3	15.0	J29A-37	55.3	15.0
J29A-21	38.9	15.0	J29A-51	53.8	16.6
J29A-25	43.8	15.0	J29A-66TJ	63.3	16.6

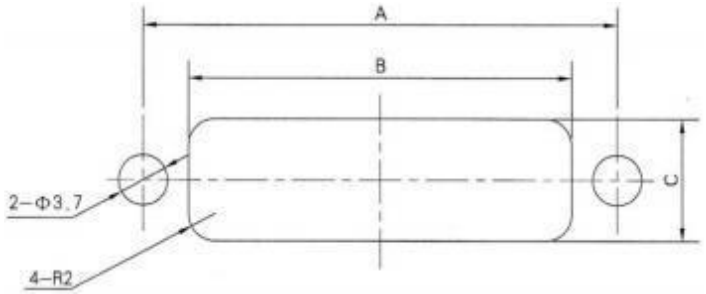
Type D2



Matched Products	A	B
J29A-25	43.8	13.0
J29A-37	55.3	13.0
J29A-51	53.8	14.6

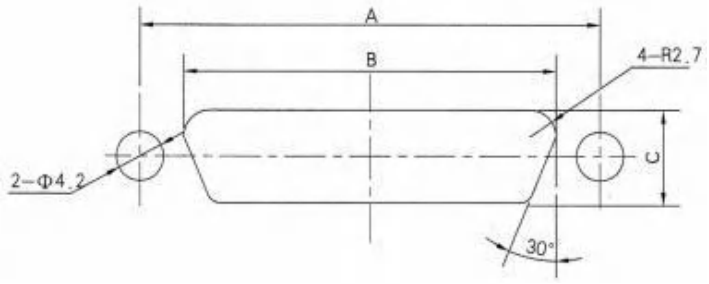
J29A mounting hole

Before panel

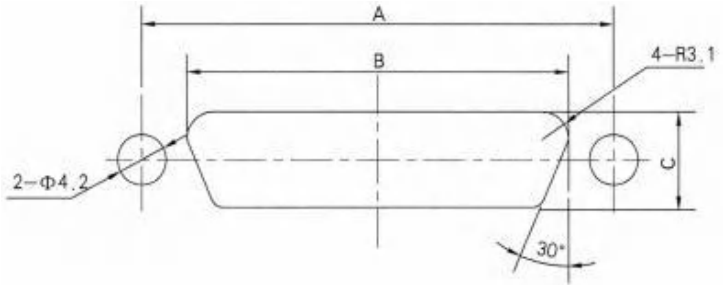


Size	A	B	C
J29A-9	20.1	14.4	9.0
J29A-15	25.6	19.9	9.0
J29A-21	37.3	25.6	9.0
J29A-25	36.0	30.1	9.0
J29A-31	41.8	35.9	9.0
J29A-37	47.5	41.6	9.0
J29A-51	46.0	40.1	10.9
J29A-66	55.5	49.6	10.9

Behind panel



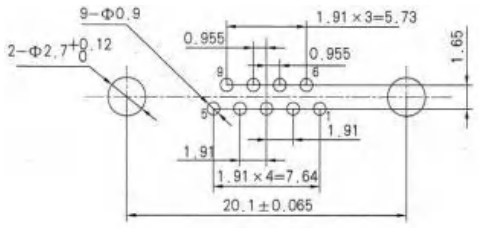
Size	A	B	C
J29A-9	20.1	13.3	7.0
J29A-15	25.6	18.8	7.0
J29A-21	37.3	24.5	7.0



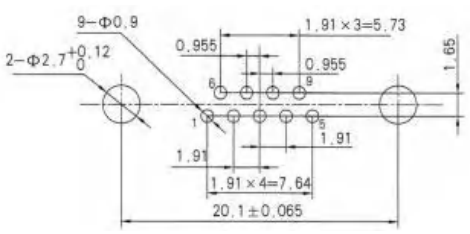
Size	A	B	C
J29A-9	36.0	30.2	7.9
J29A-31	41.8	35.0	7.9
J29A-37	47.5	40.7	7.9
J29A-51	46.0	39.2	9.6
J29A-66	55.5	48.7	9.6

J29A hole dimension of PCB/J29A-N

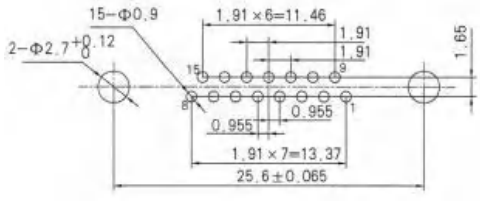
J29A-9TJN



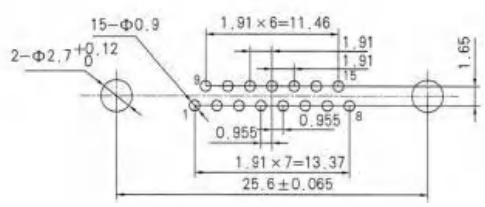
J29A-9ZKN



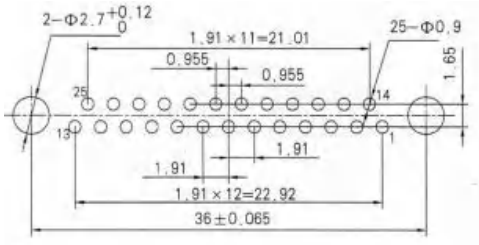
J29A-15TJN



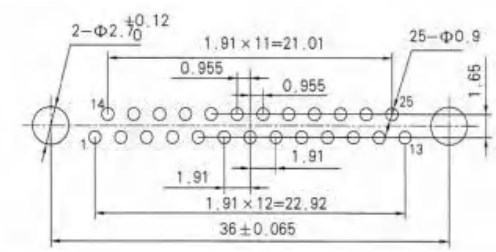
J29A-15ZKN



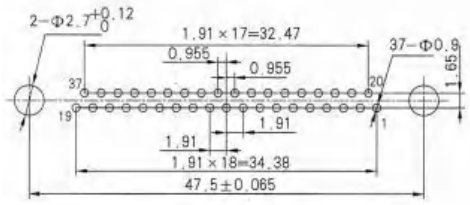
J29A-25TJN



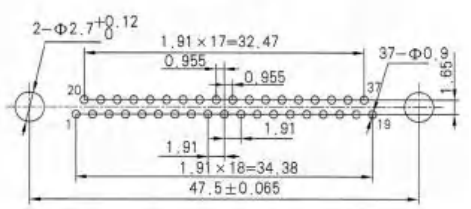
J29A-25ZKN



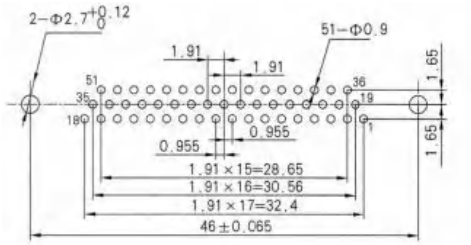
J29A-37TJN



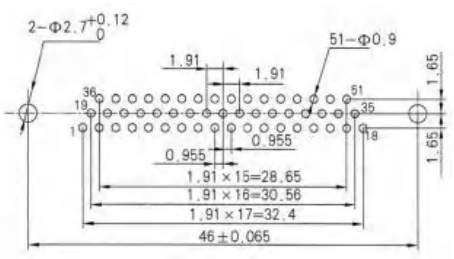
J29A-37ZKN



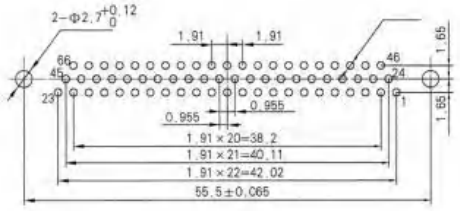
J29A-51TJN



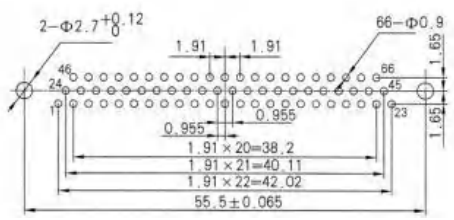
J29A-51ZKN



J29A-66TJN

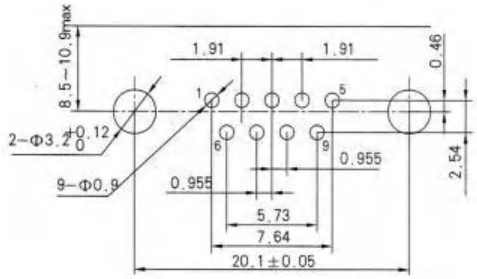


J29A-66ZKN

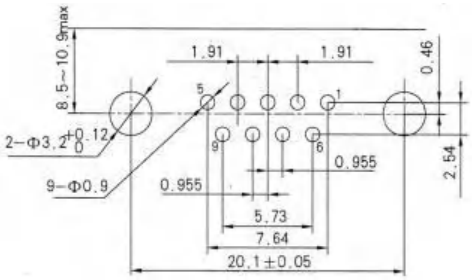


J29A hole dimension of PCB/J29A-W

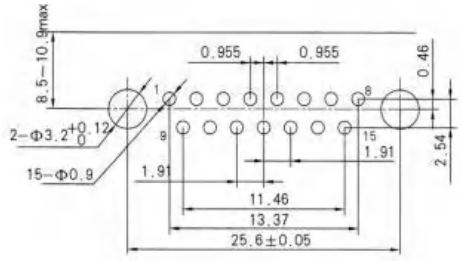
J29A-9TJW, J29A-9TJW-A



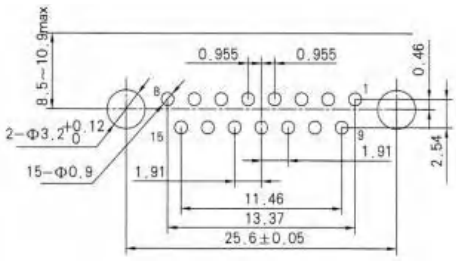
J29A-9ZKW, J29A-9ZKW-A



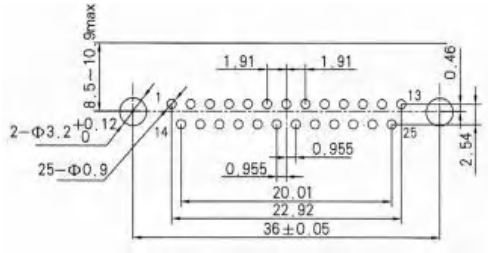
J29A-15TJW, J29A-15TJW-A



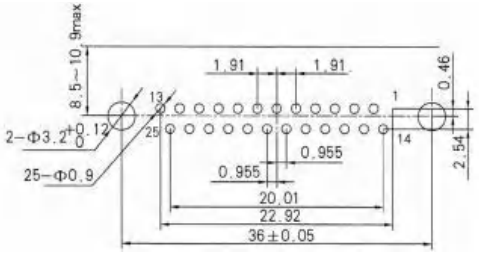
J29A-15ZKW, J29A-15ZKW-A



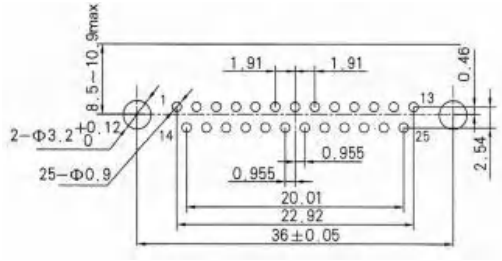
J29A-25TJW, J29A-25TJW-A



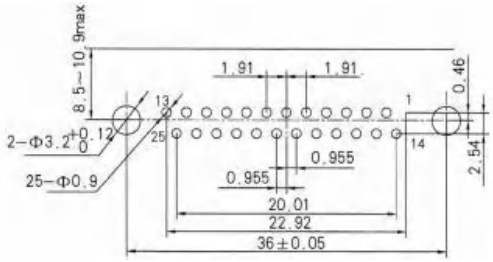
J29A-25ZKW, J29A-25ZKW-A



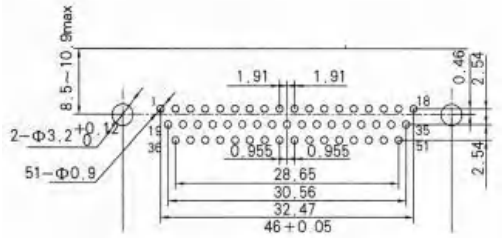
J29A-37TJW, J29A-37TJW-A



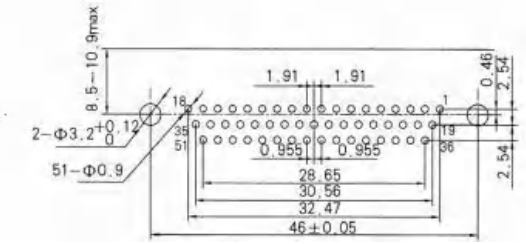
J29A-37ZKW, J29A-37ZKW-A



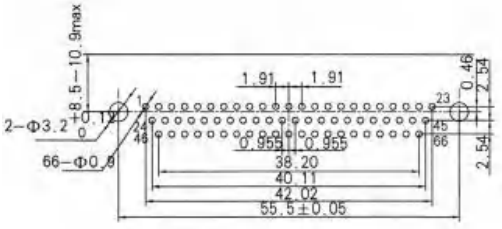
J29A-51TJW, J29A-51TJW-A



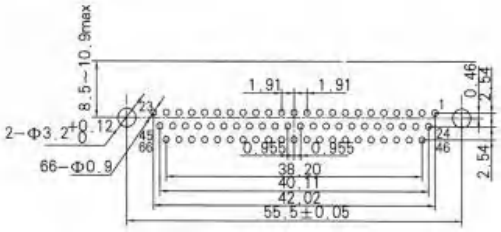
J29A-51ZKW, J29A-51ZKW-A



J29A-66TJW, J29A-66TJW-A

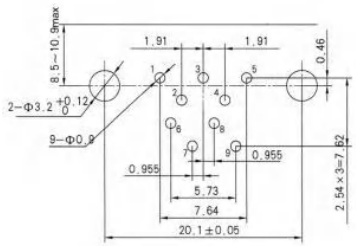


J29A-66ZKW, J29A-66ZKW-A

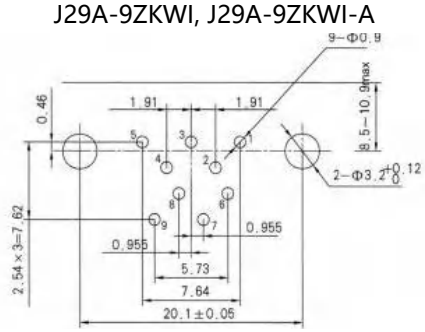


J29A hole dimension of PCB/J29A-WI

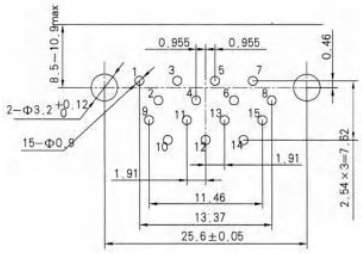
J29A-9TJWI, J29A-9TJWI-A



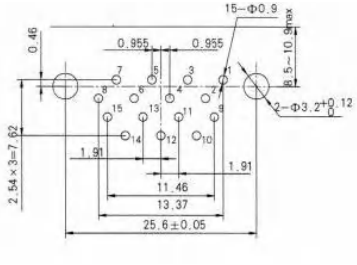
J29A-9ZKWI, J29A-9ZKWI-A



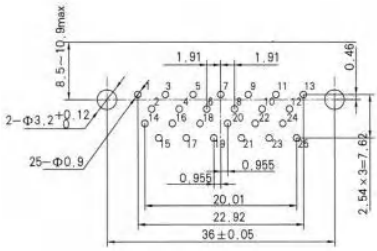
J29A-15TJWI, J29A-15TJWI-A



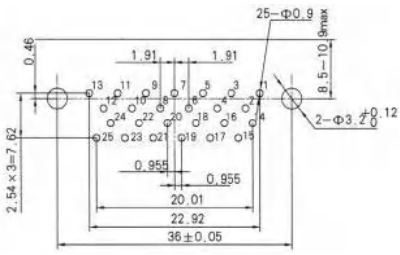
J29A-15ZKWI, J29A-15ZKWI-A



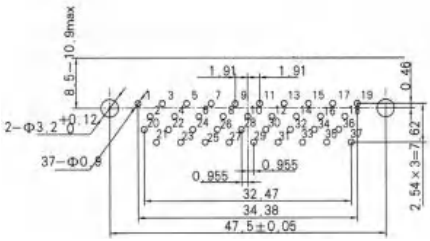
J29A25TJWI, J29A-25TJWI-A



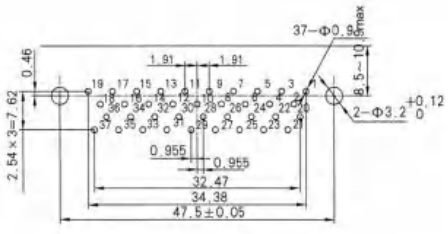
J29A-25ZKWI, J29A-25ZKWI-A



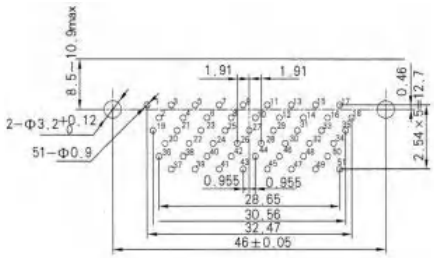
J29A37TJWI, J29A-37TJWI-A



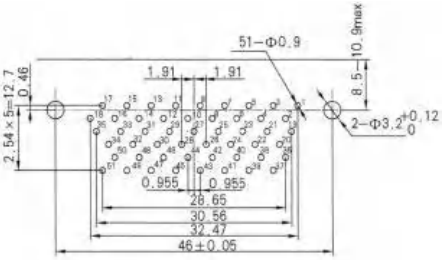
J29A-37ZKWI, J29A-37ZKWI-A



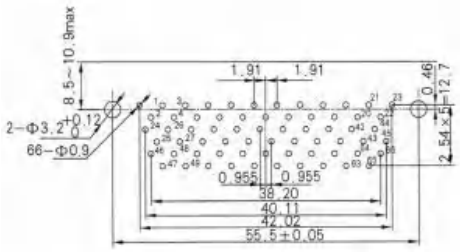
J29A51TJWI, J29A-51TJWI-A



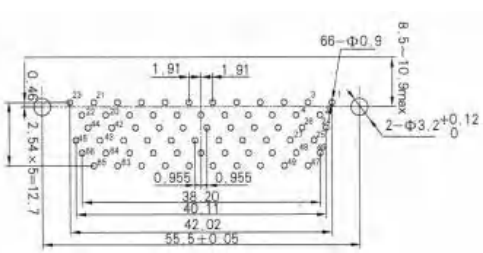
J29A-51ZKWI, J29A-51ZKWI-A



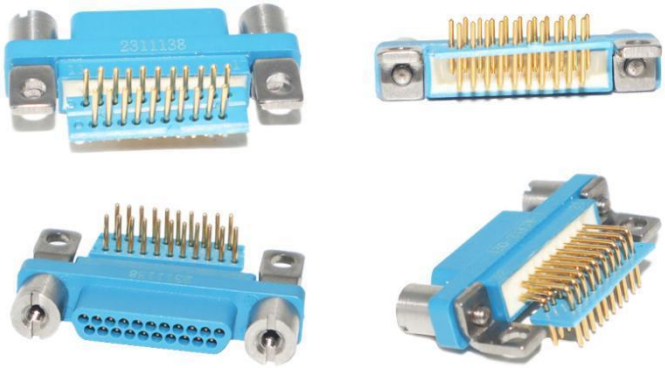
J29A66TJWI, J29A-66TJWI-A



J29A-66ZKWI, J29A-66ZKWI-A



J30 series rectangle electrical connector

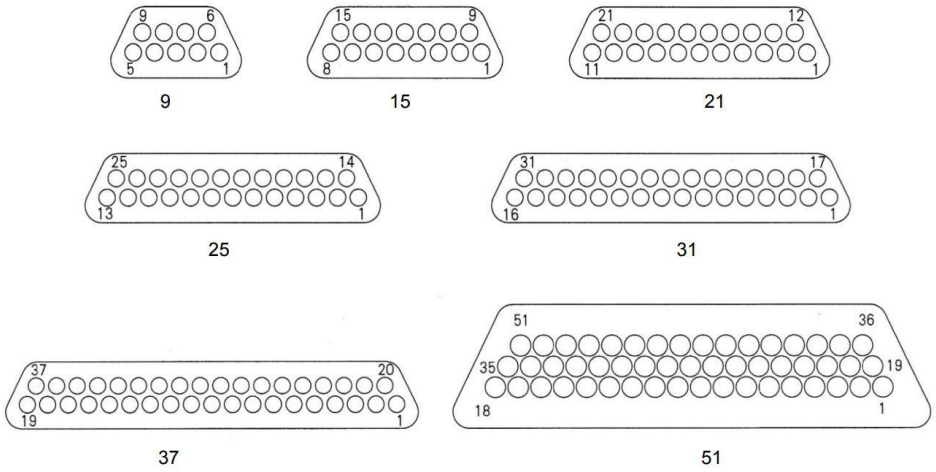


This family of rectangle connector conforms to military standard MIL-C-83513.

Performance specification

- Temperature Rating: -55 °C ~ +125 °C
- Relative humidity: at 40 °C, 95%
- Vibration: 10 HZ ~ 2000 Hz, acceleration 196 m/s²
- Shock: 735 m/s²
- Acceleration: 735 m/s²
- Rated current : 3A
- Contact resistance : ≤10 MΩ
- Insulation resistance : ≥5000 MΩ
- Dielectric strength : 800 V
- Endurance: ≥ 500 cycles

Contact layout



How to Build Your Connector Part Number

J30 9 TJ S J

Basic series

Contact number

9, 15, 21, 25, 31, 37, 51

Type of connector

ZK = Receptacle with socket

TJ = Plug with pin

Type of termination

Omit = Crimp

S = Solder

N = Straight PCB

W = Elbow PCB

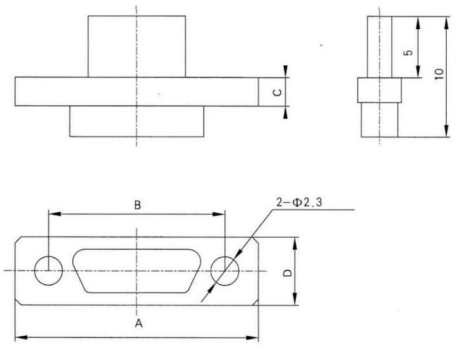
Modification

J = Grid distance of PCB is 1.27x2.54

Omit = Standard

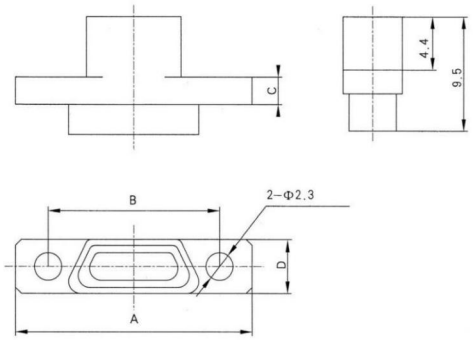
Shell size

Plug(crimp,1.27x1.1)



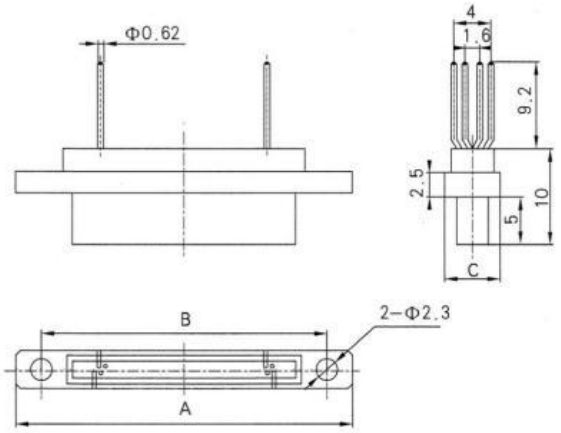
Part number	A	B	C	D
J30-9TJ	19.8	14.3	2.5	5.4
J30-15TJ	23.6	18.2	2.5	5.4
J30-21TJ	27.5	22.0	2.5	5.4
J30-25TJ	30.0	24.5	2.5	5.4
J30-31TJ	33.7	28.3	2.5	5.4
J30-37TJ	37.5	32.2	2.5	5.4
J30-51TJ	36.3	30.8	2.3	6.5

Receptacle（crimp，1.27x1.1）



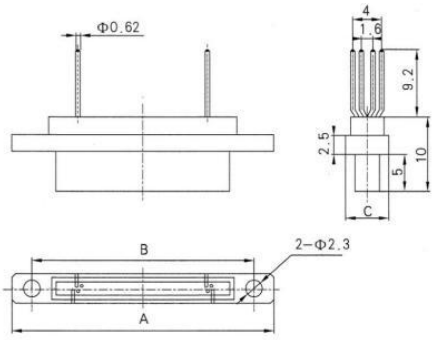
Part number	A	B	C	D
J30-9ZK	19.8	14.3	2.5	5.4
J30-15ZK	23.6	18.2	2.5	5.4
J30-21ZK	27.5	22.0	2.5	5.4
J30-25ZK	30.0	24.5	2.5	5.4
J30-31ZK	33.7	28.3	2.5	5.4
J30-37ZK	37.5	32.2	2.5	5.4
J30-51ZK	36.3	30.8	2.3	6.5

Plug（straight PCB，2.54x1.6）



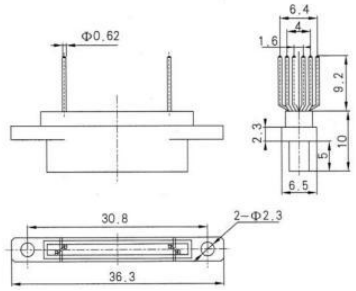
Part number	A	B	C
J30-9TJN	19.8	14.3	5.4
J30-15TJN	23.6	18.2	5.4
J30-21TJN	27.5	22.0	5.4
J30-25TJN	30.0	24.5	5.4
J30-31TJN	33.7	28.3	5.4
J30-37TJN	37.5	32.2	5.4

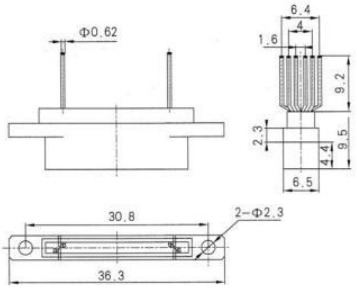
Plug（straight PCB，2.54x1.6)



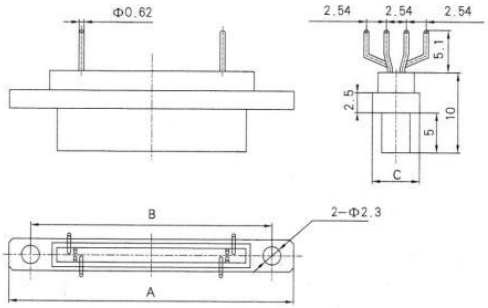
Part number	A	B	C
J30-9ZKN	19.8	14.3	5.4
J30-15ZKN	23.6	18.2	5.4
J30-21ZKN	27.5	22.0	5.4
J30-25ZKN	30.0	24.5	5.4
J30-31ZKN	33.7	28.3	5.4
J30-37ZKN	37.5	32.2	5.4

Plug（straight PCB，2.54x1.6，contact：51）　　Receptacle



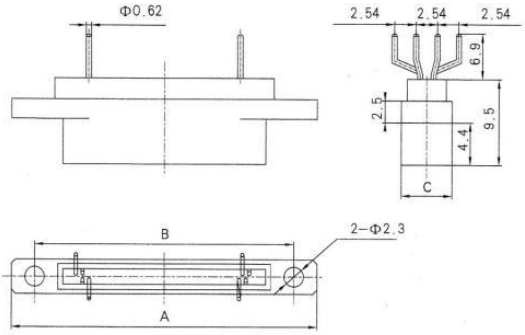


Plug（straight PCB，2.54x2.54)



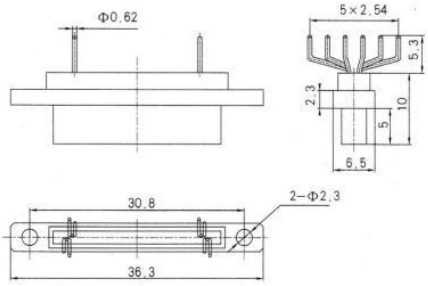
Part number	A	B	C
J30-9TJN1	19.8	14.3	5.4
J30-15TJN1	23.6	18.2	5.4
J30-21TJN1	27.5	22.0	5.4
J30-25TJN1	30.0	24.5	5.4
J30-31TJN1	33.7	28.3	5.4
J30-37TJN1	37.5	32.2	5.4

Receptacle (straight PCB, 2.54x2.54)

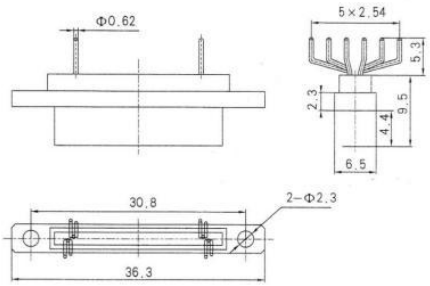


Part number	A	B	C
J30-9ZKN1	19.8	14.3	5.4
J30-15ZKN1	23.6	18.2	5.4
J30-21ZKN1	27.5	22.0	5.4
J30-25ZKN1	30.0	24.5	5.4
J30-31ZKN1	33.7	28.3	5.4
J30-37ZKN1	37.5	32.2	5.4

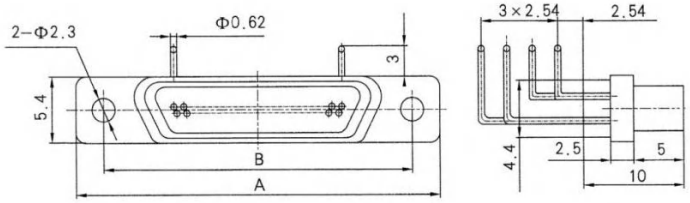
Receptacle (straight PCB, 2.54x2.54, contact: 51)



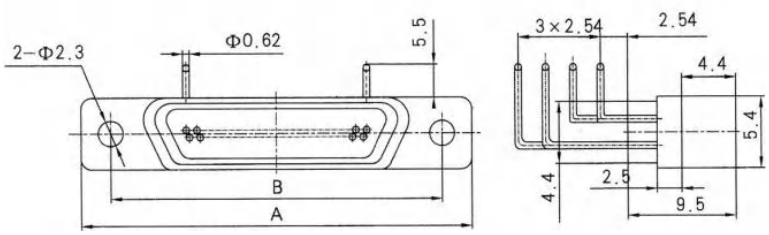
Receptacle



Plug (90° elbow PCB, 2.54x2.54)

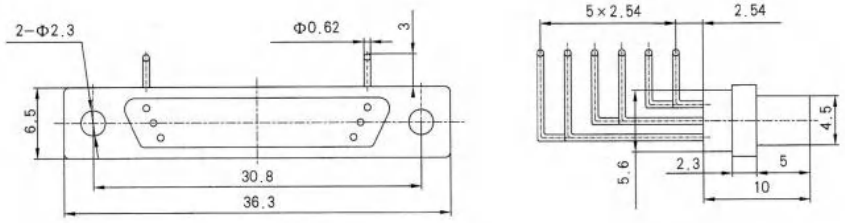


Part number	A	B
J30-9TJW	19.8	14.3
J30-15TJW	23.6	18.2
J30-21TJW	27.5	22.0
J30-25TJW	30.0	24.5
J30-31TJW	33.7	28.3
J30-37TJW	37.5	32.2

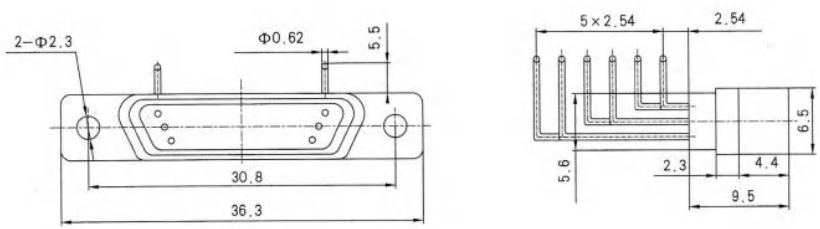


Part number	A	B
J30-9ZKW	19.8	14.3
J30-15ZKW	23.6	18.2
J30-21ZKW	27.5	22.0
J30-25ZKW	30.0	24.5
J30-31ZKW	33.7	28.3
J30-37ZKW	37.5	32.2

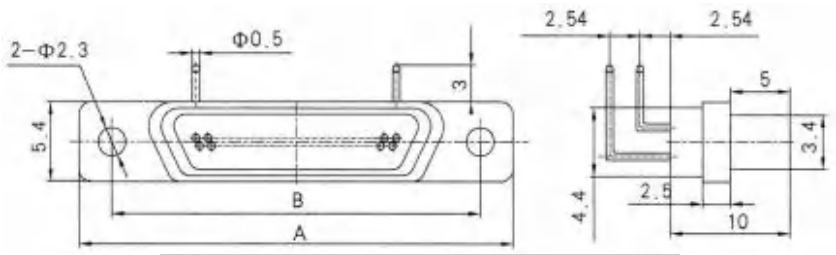
Plug (90°elbow PCB, 2.54x2.54, contact: 51)



Receptacle (90°elbow PCB, 2.54x2.54, contact: 51)

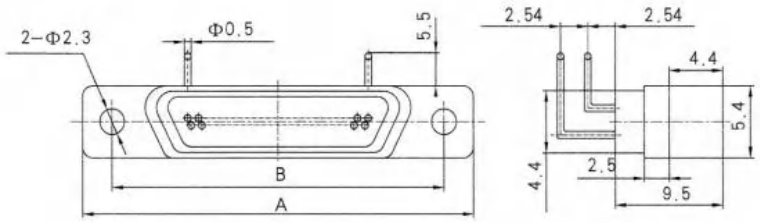


Plug (90°elbow PCB, 1.27x2.54)



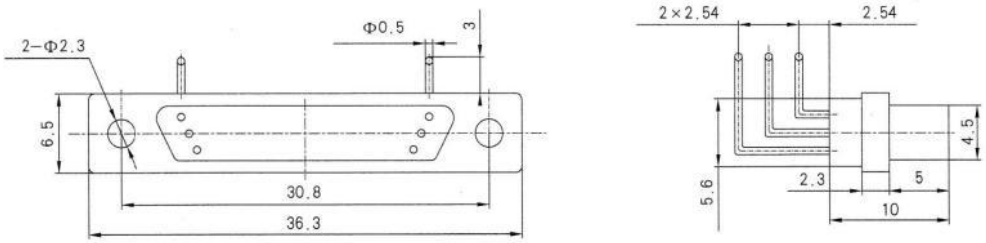
Part number	A	B
J30-9TJW-J	19.8	14.3
J30-15TJW-J	23.6	18.2
J30-21TJW-J	27.5	22.0
J30-25TJW-J	30.0	24.5
J30-31TJW-J	33.7	28.3
J30-37TJW-J	37.5	32.2

Receptacle (90°elbow PCB, 1.27x2.54)

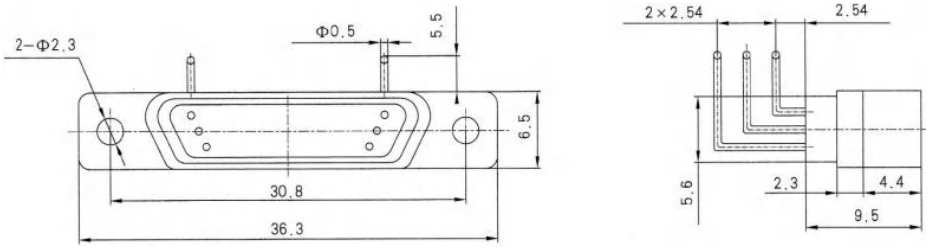


Part number	A	B
J30-9TJW-J	19.8	14.3
J30-15TJW-J	23.6	18.2
J30-21TJW-J	27.5	22.0
J30-25TJW-J	30.0	24.5
J30-31TJW-J	33.7	28.3
J30-37TJW-J	37.5	32.2

Plug (90o elbow PCB, 1.27*2.54, contact: 51)



Receptacle (90o elbow PCB, 1.27*2.54, contact: 51)

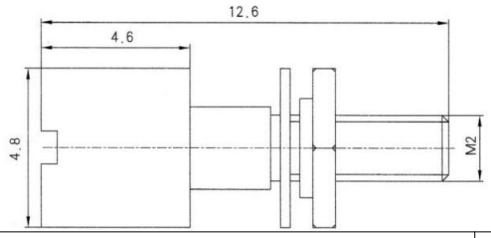


J30 accessories

Locking Screw

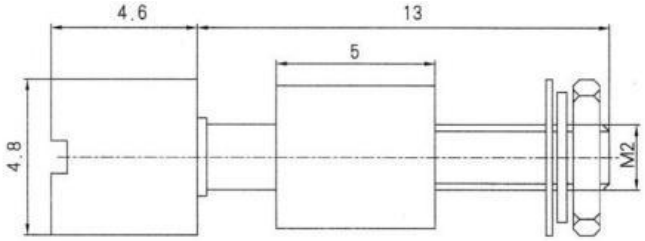
Mark	Feature	Matched Accessory
Ln6.480.025	Screw (M2×6)	Ln6.480.003 Ln6.480.028

Mounting screw



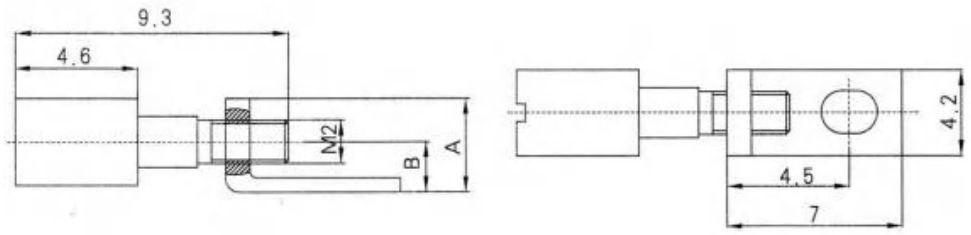
Mark	Feature	Matched Accessory
Ln6.480.003	Apply to products installed before panel	Ln6.480.025

Mounting screw



Mark	Feature	Matched Accessory
Ln6.480.003	Apply to installation on Straight PCB (Thickness ≤ 2.5 mm)	Ln6.480.025

Locking accessories of rack installation

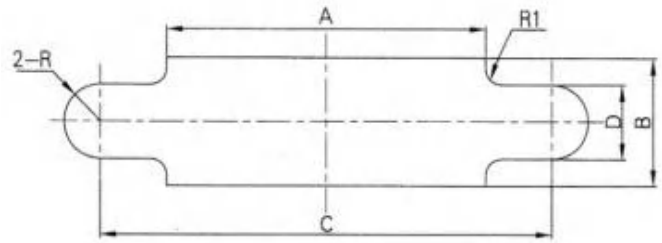


Mark	A	B
Ln6.150.025	5.3	2.70
Ln6.150.026	6.4	3.25

Mark	Can be used	Matched Accessory
Ln6.150.025	J30-9/15/21/25/31/37TJW/ZKW	Ln6.480.025
Ln6.150.026	J30-51TJW/ZKW	Ln6.480.025

Size of hole

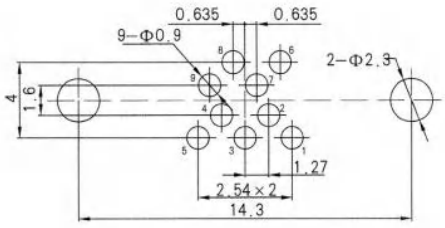
Type: crimp



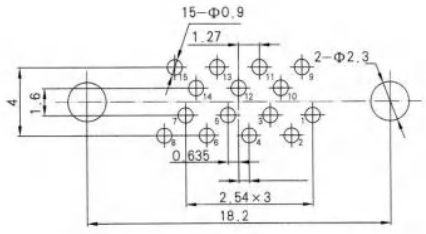
Mark	A	B	C	D
J30-9	10.1	4.6	14.3	2.3
J30-15	14.2	4.6	18.2	2.3
J30-21	17.9	4.6	22.0	2.3
J30-25	20.8	4.6	24.5	2.3
J30-31	24.2	4.6	28.3	2.3
J30-37	28.2	4.6	32.2	2.3
J30-51	26.9	5.9	30.8	2.3

Type: straight PCB,2.54x1.6

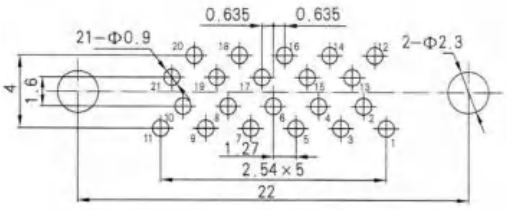
J30-9TJN



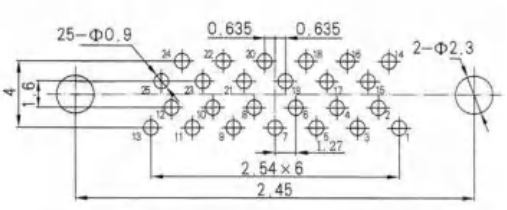
J30-15TJN



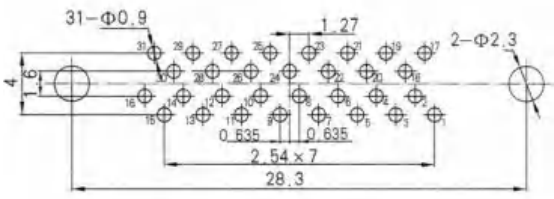
J30-21TJN



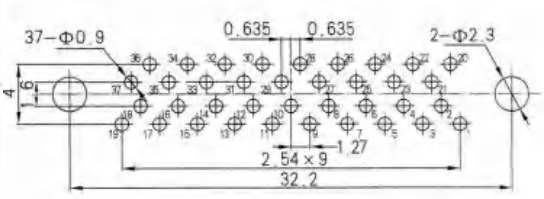
J30-25TJN



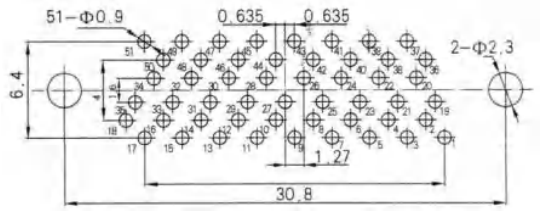
J30-31TJN



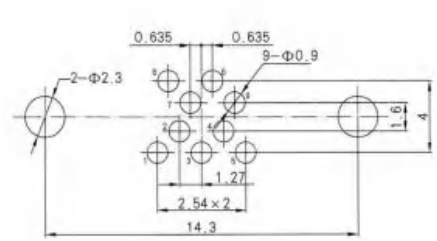
J30-37TJN



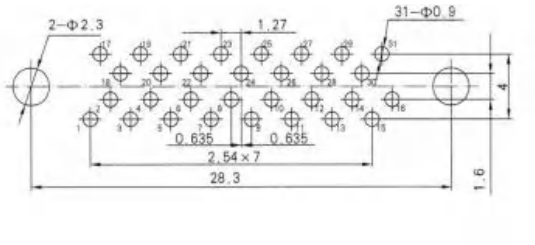
J30-51TJN



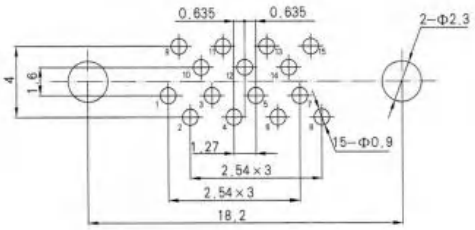
J30-9ZKN



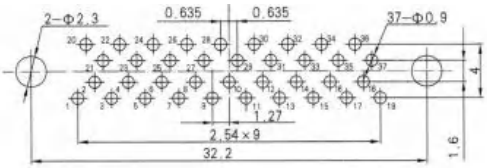
J30-31ZKN



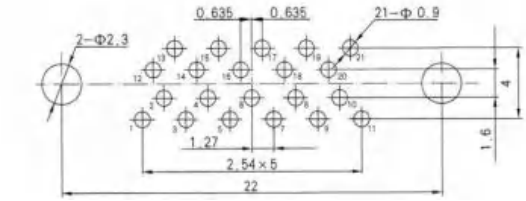
J30-15ZKN



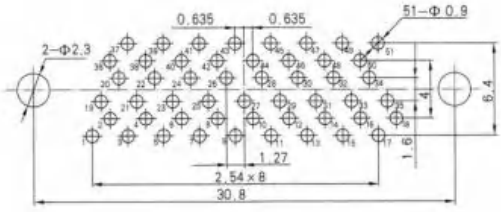
J30-37ZKN



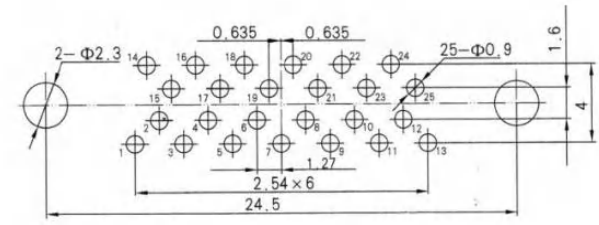
J30-21ZKN



J30-51ZKN

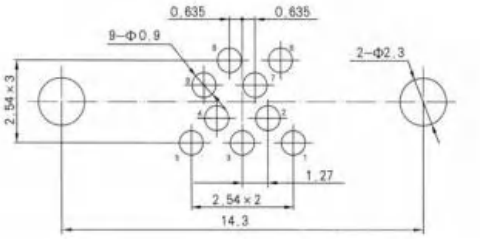


J30-25ZKN

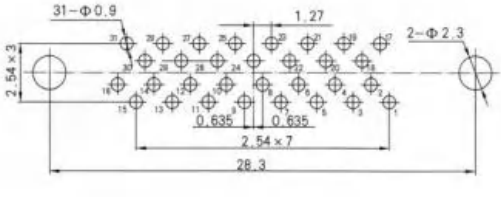


Type: straight PCB,2.54x1.6

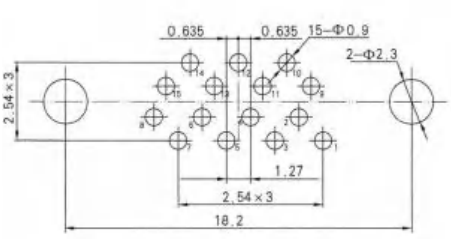
J30-9TJN1



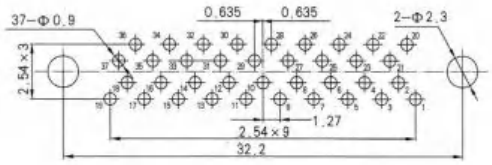
J30-31TJN1



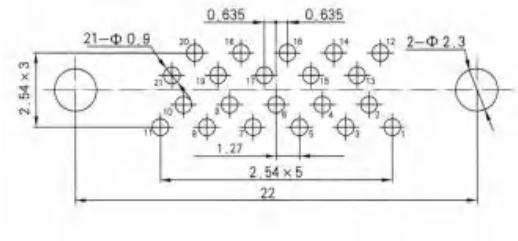
J30-15TJN1



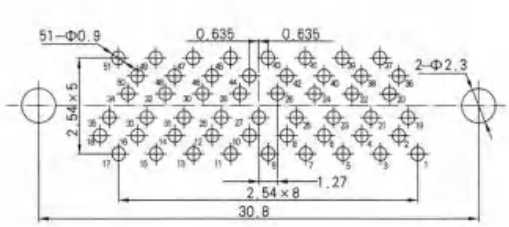
J30-37TJN1



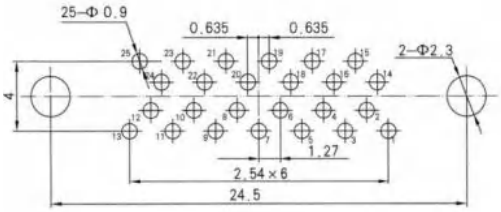
J30-21TJN1



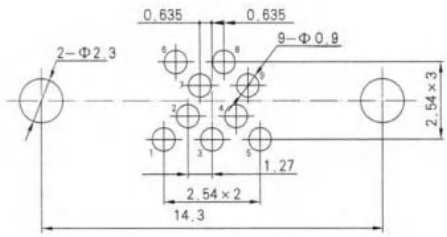
J30-51TJN1



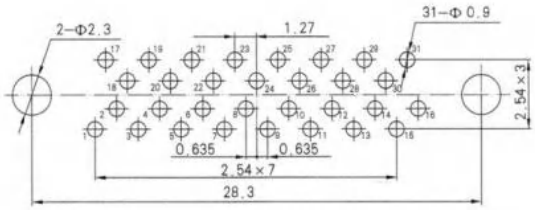
J30-25TJN1



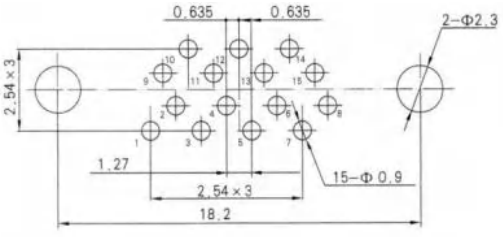
J30-9ZKN1



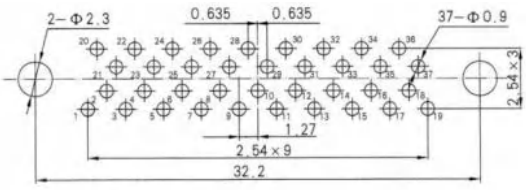
J30-31ZKN1



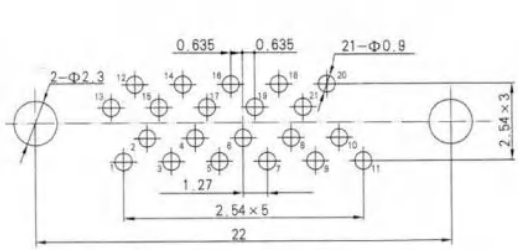
J30-15ZKN1



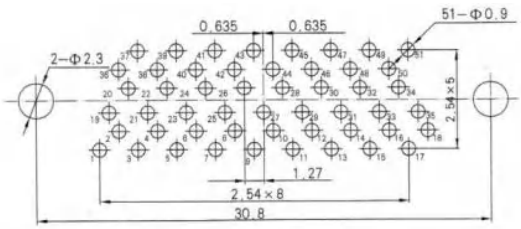
J30-37ZKN1



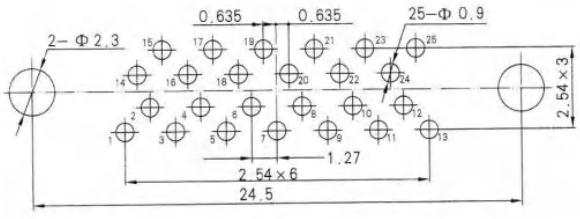
J30-21ZKN1



J30-51ZKN1

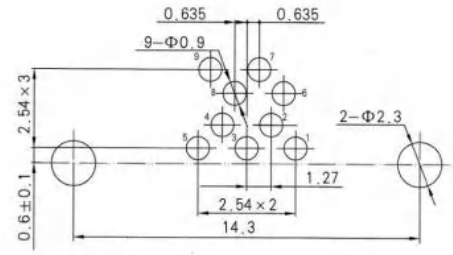


J30-25ZKN1

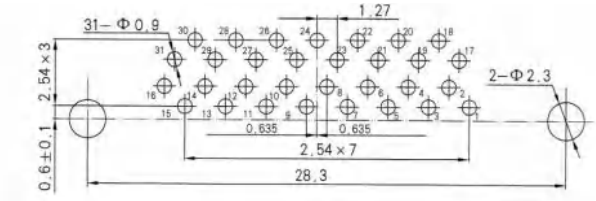


Type: 90° elbow PCB,2.54x2.54

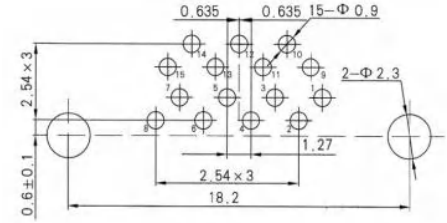
J30-9TJW



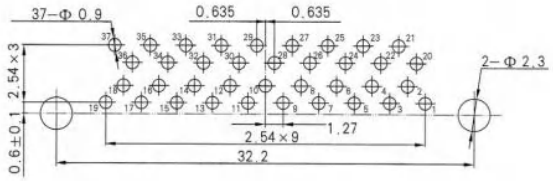
J30-31TJW



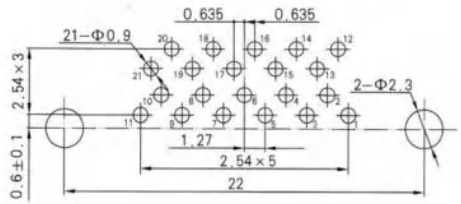
J30-15TJW



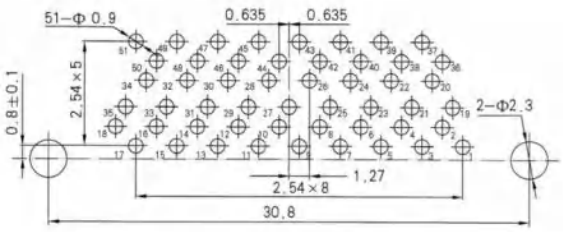
J30-37TJW



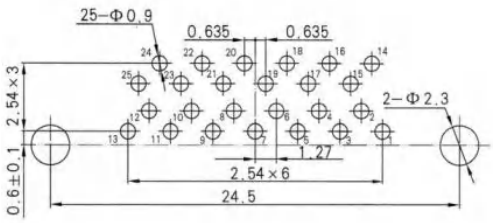
J30-21TJW



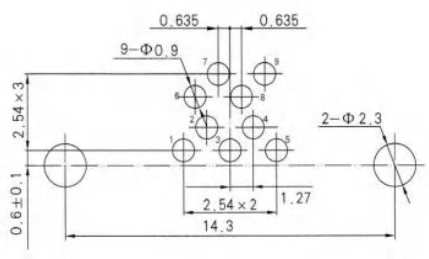
J30-51TJW



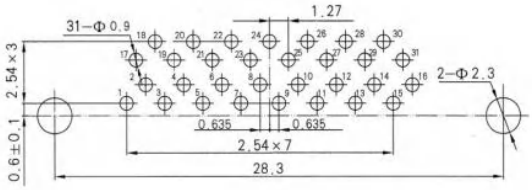
J30-25TJW



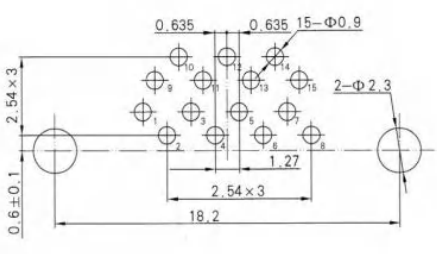
J30-9ZKW



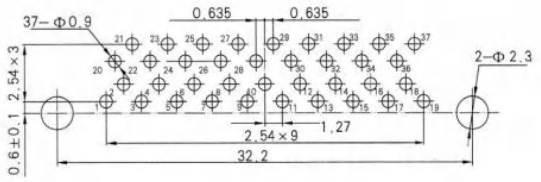
J30-31ZKW



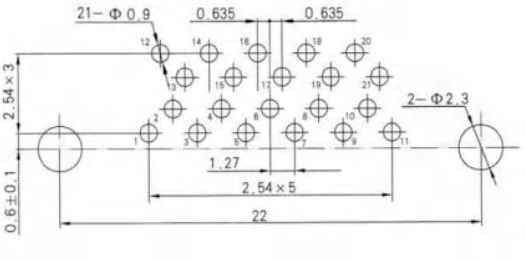
J30-15ZKW



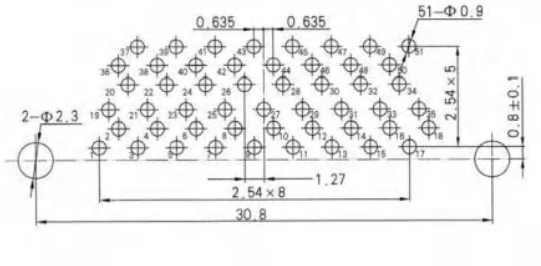
J30-37ZKW



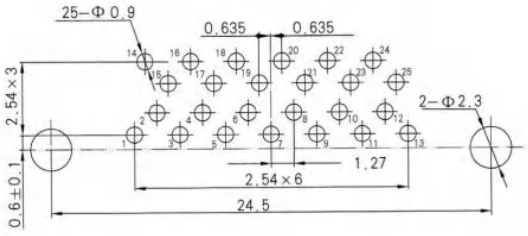
J30-21ZKW



J30-51ZKW

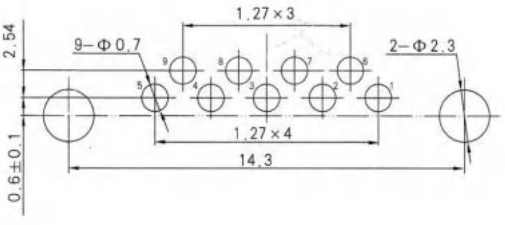


J30-25ZKW

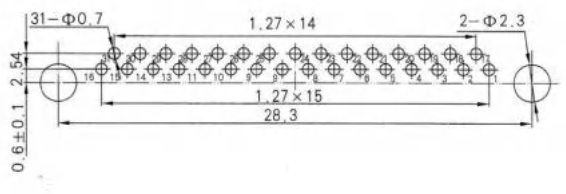


Type: 90° elbow PCB,1.27x2.54

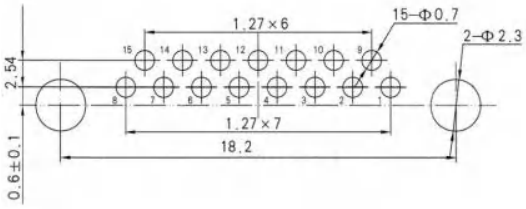
J30-9TJW-J



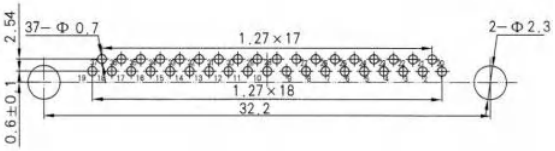
J30-31TJW-J



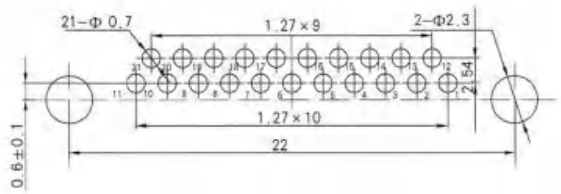
J30-15TJW-J



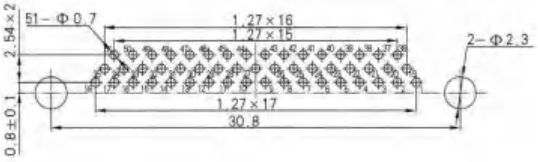
J30-37TJW-J



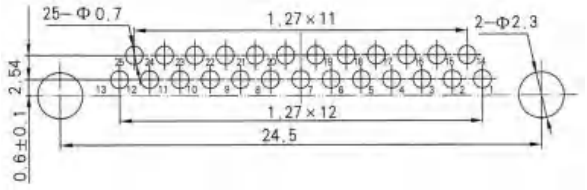
J30-21TJW-J



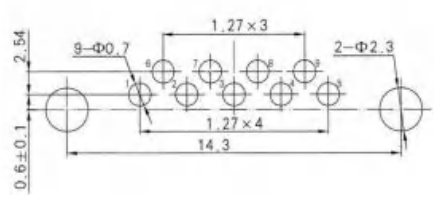
J30-51TJW-J



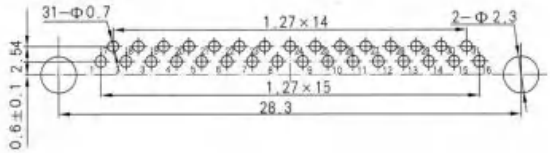
J30-25TJW-J



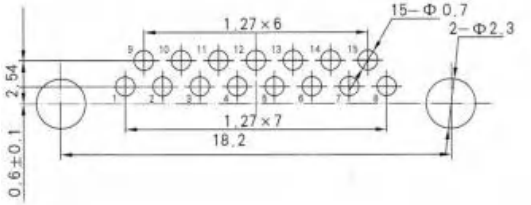
J30-9ZKW-J



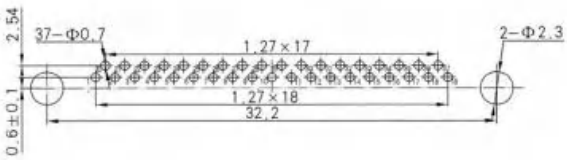
J30-31ZKW-J



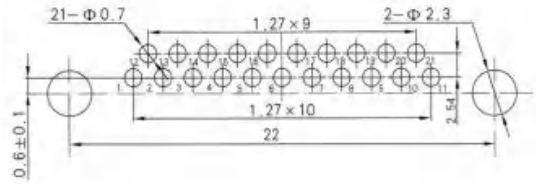
J30-15ZKW-J



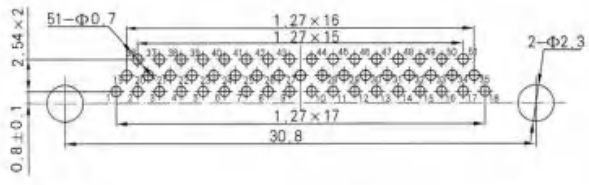
J30-37ZKW-J



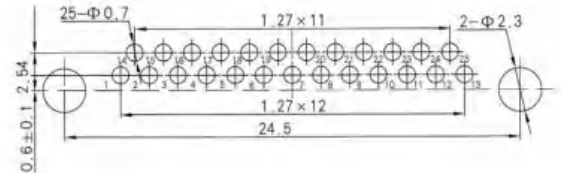
J30-21ZKW-J



J30-51ZKW-J



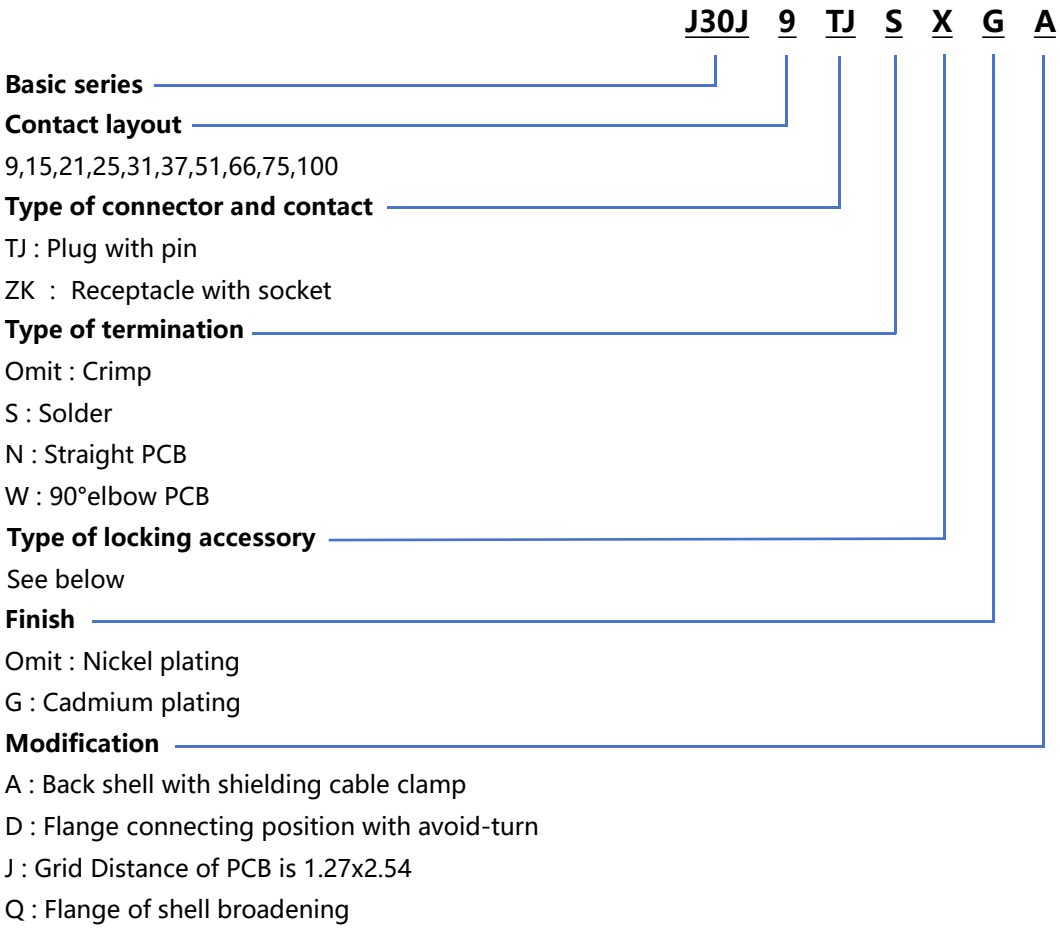
J30-25ZKW-J



J30J series rectangle electrical connector

Conform to military standard MIL-DTL-83513. The family can mate with MDM series from USA.

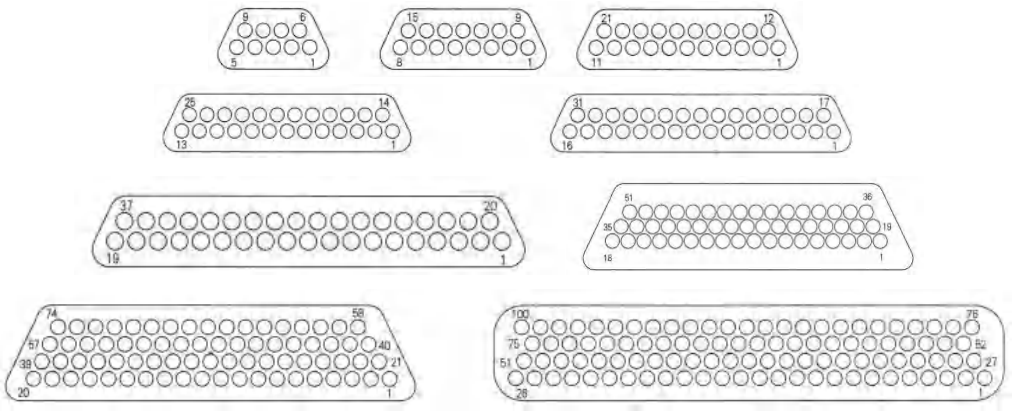
How to Build Your Connector Part Number



Performance specification

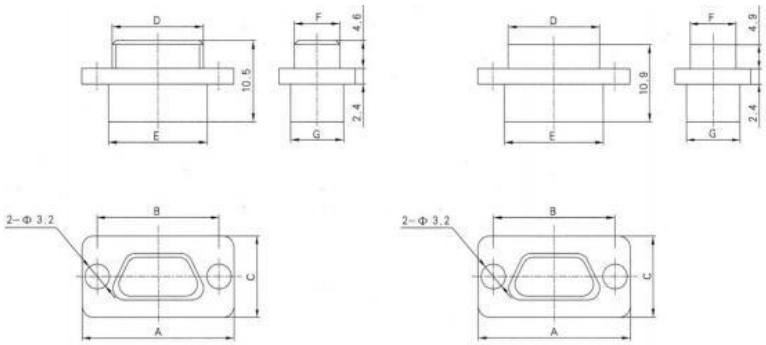
- **Temperature:** -55 oC ~ +125 oC
- **Vibration:** at 10 Hz ~ 2000 Hz, acceleration 196 m/s
- **Acceleration:** 735 m/s2
- **Contact resistance:** ≤ 10 MΩ
- **Dielectric strength:** 800 V
- **Relative humidity:** at 40 oC, 95%
- **Shock:** 735 m/s2
- **Rated current:** 3 A
- **Insulation resistance:** ≥ 5000 MΩ
- **Endurance:** ≥ 500 cycles

Contact layout

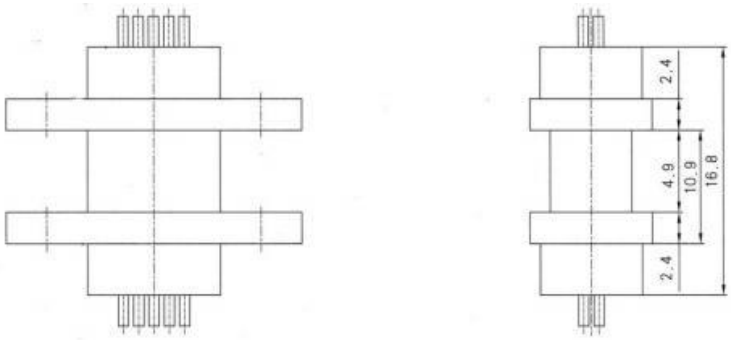


Shell size

Type: crimp



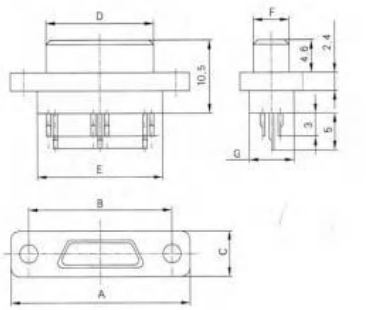
Plug with pin receptacle with socket



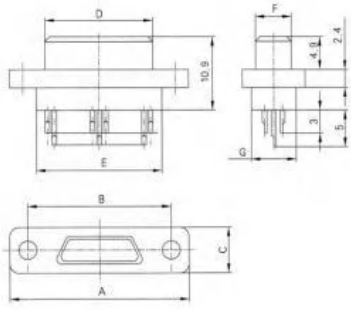
Size after mating

Part number	A	B	C	D	E	F	G
J30J-9TJ	19.6	14.3	7.6	8.3	9.9	4.7	6.8
J30J-15TJ	23.5	18.2	7.6	12.3	13.8	4.7	6.8
J30J-21TJ	27.4	22.0	7.6	16.0	17.6	4.7	6.8
J30J-25TJ	29.8	24.5	7.6	18.6	20.2	4.7	6.8
J30J-31TJ	33.6	28.3	7.6	22.4	24.0	4.7	6.8
J30J-37TJ	37.4	32.2	7.6	26.3	27.8	4.7	6.8
J30J-51TJ	36.4	30.86	8.7	25.0	26.6	5.8	7.9
J30J-66TJ	42.9	37.3	8.7	31.4	33.0	5.8	7.9
J30J-74TJ	38.8	33.5	9.7	27.5	29.1	6.8	9.1
J30J-100TJ	54.7	45.7	9.7	35.0	36.6	6.8	9.1
J30J-9ZK	19.6	14.3	7.6	9.8	9.9	6.1	6.8
J30J-15ZK	23.5	18.2	7.6	13.7	13.8	6.1	6.8
J30J-21ZK	27.4	22.0	7.6	17.4	17.6	6.1	6.8
J30J-25ZK	29.8	24.5	7.6	20	20.2	6.1	6.8
J30J-31ZK	33.6	28.3	7.6	23.8	24.0	6.1	6.8
J30J-37ZK	37.4	32.2	7.6	27.7	27.8	6.1	6.8
J30J-51ZK	36.4	30.86	8.7	26.5	26.6	7.2	7.9
J30J-66ZK	42.9	37.3	8.7	32.9	33.0	7.2	7.9
J30J-74ZK	38.8	33.5	9.7	29.0	29.1	8.3	9.1
J30J-100ZK	54.7	45.7	9.7	36.6	36.6	8.2	9.1

Type: solder

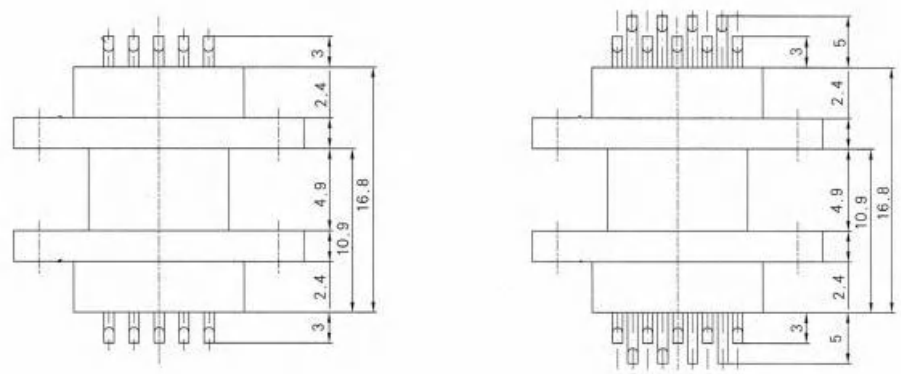


Plug with pin

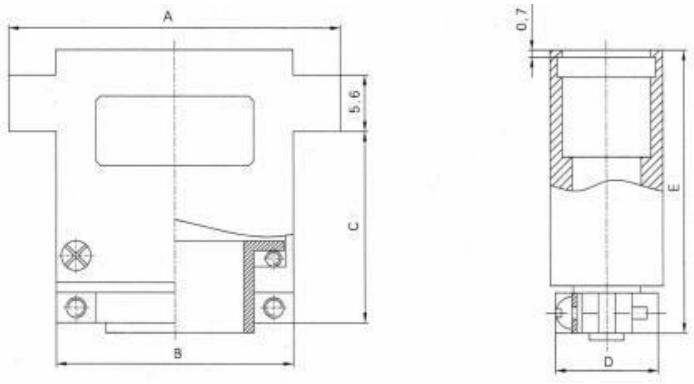


receptacle with socket

Part number	A	B	C	D		E	F		G
J30J-9TJS/ZKS	19.6	14.3	7.6	8.3(TJS)	9.8(ZKS)	9.9	4.7	6.1	6.8
J30J-15TJS/ZKS	23.5	18.2	7.6	12.3(TJS)	13.7(ZKS)	13.8	4.7	6.1	6.8
J30J-21TJS/ZKS	27.4	22.0	7.6	16.0(TJS)	17.4(ZKS)	17.6	4.7	6.1	6.8
J30J-25TJS/ZKS	29.8	24.5	7.6	18.6(TJS)	20.0(ZKS)	20.2	4.7	6.1	6.8
J30J-31TJS/ZKS	33.6	28.3	7.6	22.4(TJS)	23.8(ZKS)	24.0	4.7	6.1	6.8
J30J-37TJS/ZKS	37.4	32.2	7.6	26.3(TJS)	27.7(ZKS)	27.8	4.7	6.1	6.8
J30J-51TJS/ZKS	36.4	30.8	8.7	25.0(TJS)	26.5(ZKS)	26.6	5.8	7.2	7.9
J30J-66TJS/ZKS	42.9	37.3	8.7	31.4(TJS)	32.9(ZKS)	33.0	5.8	7.2	7.9
J30J-74TJS/ZKS	38.8	33.5	9.7	27.5(TJS)	29.0(ZKS)	29.1	6.8	8.3	9.1
J30J-100TJS/ZKS	54.7	45.7	9.7	35.0(TJS)	36.6(ZKS)	36.6	6.8	8.3	9.1



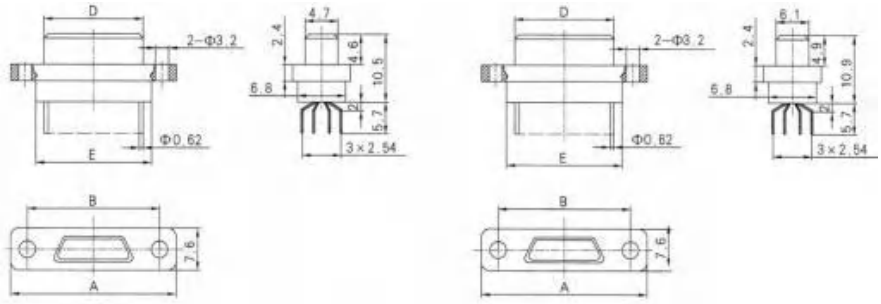
Size after mating



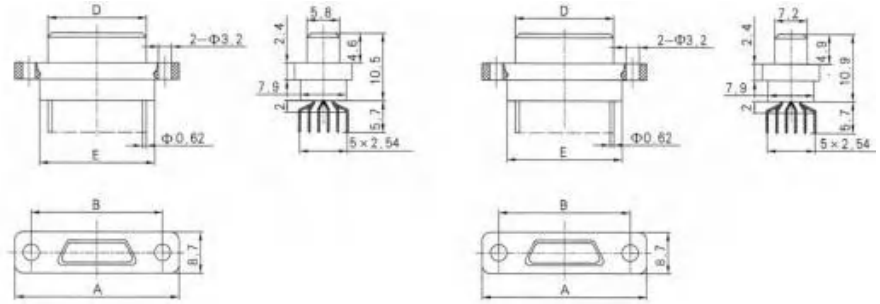
Size of A3 clamp

Type (Cores)	A	B	C	D	E	Type (Cores)	A	B	C	D	E
9	19.6	9.9	18.2	10.4	27	37	37.4	27.8	19.2	10.4	28
15	23.5	13.8	18.2	10.4	27	51	36.4	26.6	21.2	11.2	30
21	27.4	17.6	19.2	10.4	28	66	42.9	33.0	21.2	11.2	30
25	29.8	20.2	19.2	10.4	28	74	38.8	29.1	21.2	12.0	30
31	33.6	24.0	19.2	10.4	28	100	54.7	40.7	21.2	12.0	30

Type: straight PCB



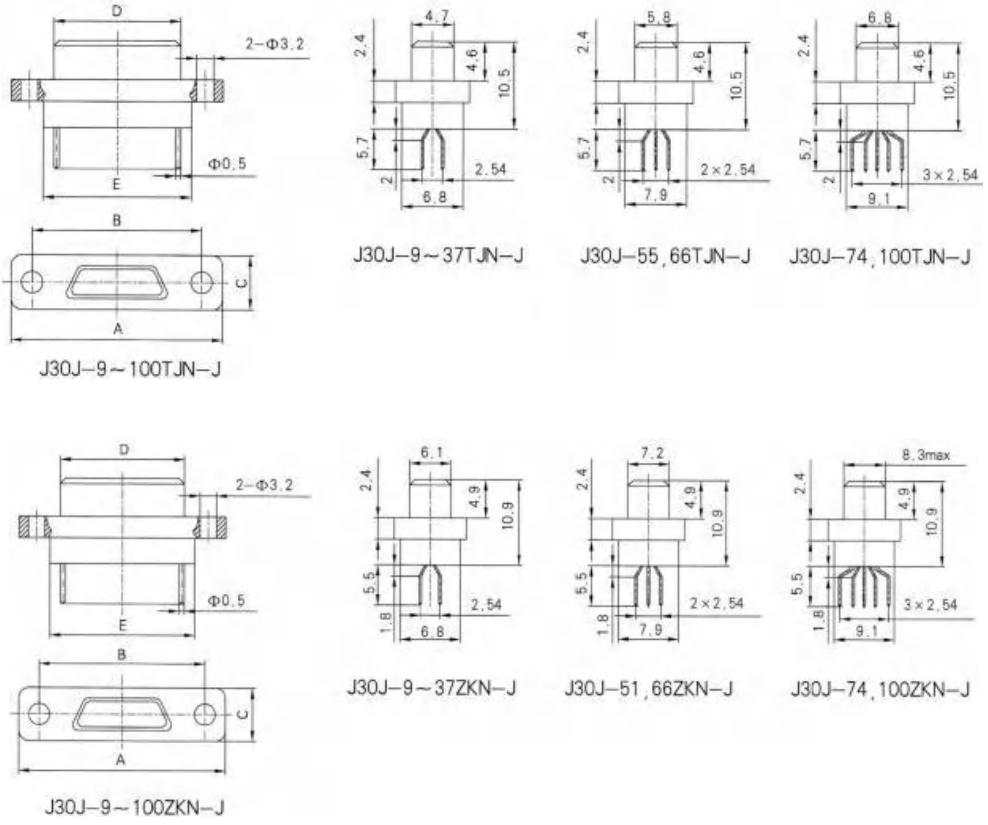
Grid Distance: 2.54*2.54 cores:9, 15, 21, 25, 31, 37



Grid Distance: 2.54*2.54 cores:51, 66

Part number	A	B	C	D		E
J30J-9TJN/ZKN	19.6	14.3	7.6	8.3 (TJN)	9.8 (ZKN)	9.9
J30J-15TJN/ZKN	23.5	18.2	7.6	12.3 (TJN)	13.7 (ZKN)	13.8
J30J-21TJN/ZKN	27.4	22.0	7.6	16.0 (TJN)	17.4 (ZKN)	17.6
J30J-25TJN/ZKN	29.8	24.5	7.6	18.6 (TJN)	20.0 (ZKN)	20.2
J30J-31TJN/ZKN	33.6	28.3	7.6	22.4 (TJN)	23.8 (ZKN)	24.0
J30J-37TJN/ZKN	37.4	32.2	7.6	26.3 (TJN)	27.7 (ZKN)	27.8
J30J-51TJN/ZKN	36.4	30.8	8.7	25.0 (TJN)	26.5 (ZKN)	26.6
J30J-66TJN/ZKN	42.9	37.3	8.7	31.4 (TJN)	32.9 (ZKN)	33.0

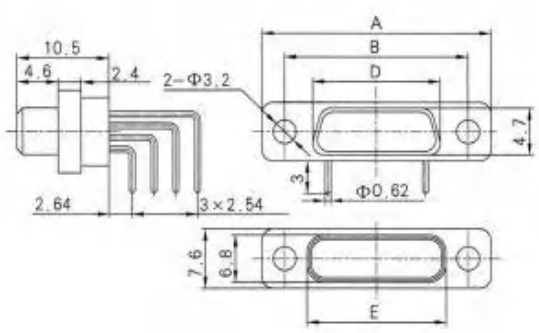
Shell size

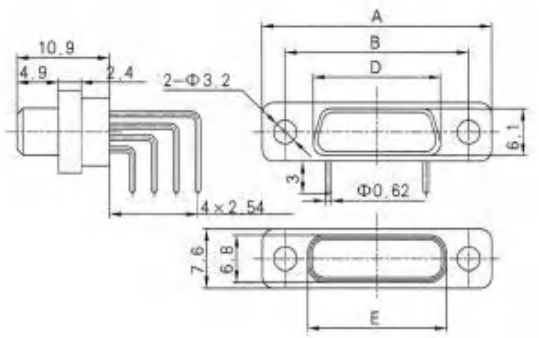


Grid Distance: 1.27*2.54

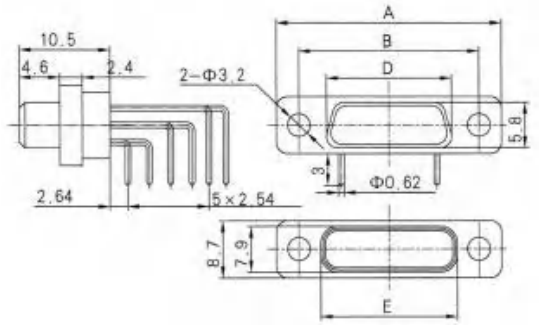
Part number	A	B	C	D		E
J30J - 9TJN/ZKN - J	19.6	14.3	7.6	8.3 (TJN - J)	9.8 (ZKN - J)	9.9
J30J - 15TJN/ZKN - J	23.5	18.2	7.6	12.3 (TJN - J)	13.7 (ZKN - J)	13.8
J30J - 21TJN/ZKN - J	27.4	22.0	7.6	16.0 (TJN - J)	17.4 (ZKN - J)	17.6
J30J - 25TJN/ZKN - J	29.8	24.5	7.6	18.6 (TJN - J)	20.0 (ZKN - J)	20.2
J30J - 31TJN/ZKN - J	33.6	28.3	7.6	22.4 (TJN - J)	23.8 (ZKN - J)	24.0
J30J - 37TJN/ZKN - J	37.4	32.2	7.6	26.3 (TJN - J)	27.7 (ZKN - J)	27.8
J30J - 51TJN/ZKN - J	36.4	30.8	8.7	25.0 (TJN - J)	26.5 (ZKN - J)	26.6
J30J - 66TJN/ZKN - J	42.9	37.3	8.7	31.4 (TJN - J)	32.9 (ZKN - J)	33.0
J30J - 74TJN/ZKN - J	38.8	33.5	9.7	27.5 (TJN - J)	29.0 (ZKN - J)	29.1
J30J - 100TJN/ZKN - J	54.7	45.7	9.7	35.0 (TJN - J)	36.6 (ZKN - J)	36.6

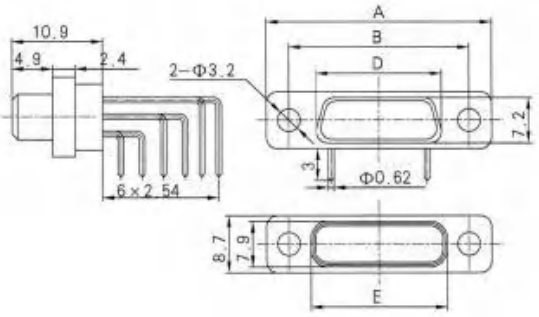
Type: 90o elbow PCB





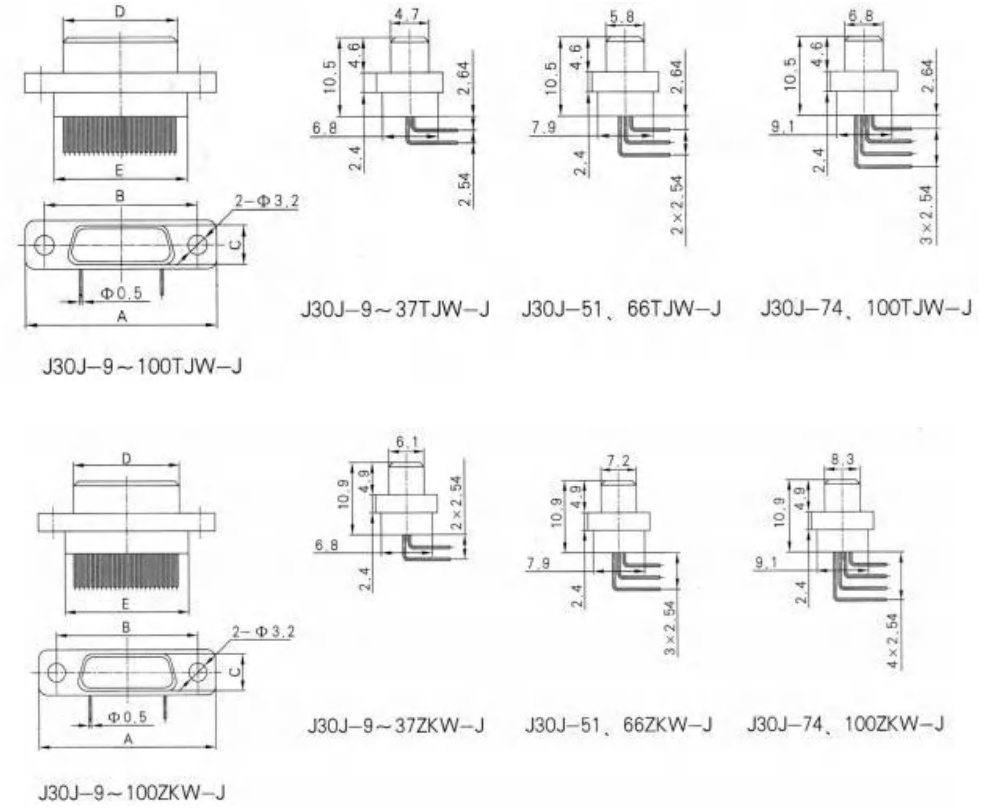
Grid Distance: 2.54*2.54 cores: 9, 15, 21, 25, 31, 37





Grid Distance: 2.54*2.54 cores: 51, 66

Part number	A	B	D		E
J30J - 9TJW/ZKW	19.6	14.30	8.3 (TJW)	9.8 (ZKW)	9.9
J30J - 15TJW/ZKW	23.5	18.20	12.3 (TJW)	13.7 (ZKW)	13.8
J30J - 21TJW/ZKW	27.4	22.00	16.0 (TJW)	17.4 (ZKW)	17.6
J30J - 25TJW/ZKW	29.8	24.50	18.6 (TJW)	20.0 (ZKW)	20.2
J30J - 31TJW/ZKW	33.6	28.30	22.4 (TJW)	23.8 (ZKW)	24.0
J30J - 37TJW/ZKW	37.4	32.20	26.3 (TJW)	27.7 (ZKW)	27.8
J30J - 51TJW/ZKW	36.4	30.86	25.0 (TJW)	26.5 (ZKW)	26.6
J30J - 66TJW/ZKW	42.9	37.30	31.4 (TJW)	32.9 (ZKW)	33.0

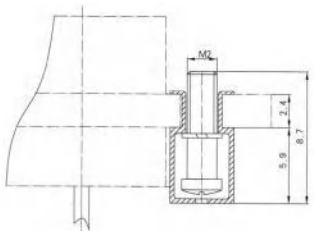


Grid Distance: 1.27*2.54

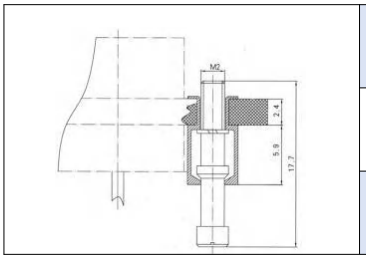
Part number	A	B	C	D		E
J30J - 9TJW/ZKW - J	19.6	14.3	7.6	8.3 (TJW - J)	9.8 (ZKW - J)	9.9
J30J - 15TJW/ZKW - J	23.5	18.2	7.6	12.3 (TJW - J)	13.7 (ZKW - J)	13.8
J30J - 21TJW/ZKW - J	27.4	22.0	7.6	16.0 (TJW - J)	17.4 (ZKW - J)	17.6
J30J - 25TJW/ZKW - J	29.8	24.5	7.6	18.6 (TJW - J)	20.0 (ZKW - J)	20.2
J30J - 31TJW/ZKW - J	33.6	28.3	7.6	22.4 (TJW - J)	23.8 (ZKW - J)	24.0
J30J - 37TJW/ZKW - J	37.4	32.2	7.6	26.3 (TJW - J)	27.7 (ZKW - J)	27.8
J30J - 51TJW/ZKW - J	36.4	30.8	8.7	25.0 (TJW - J)	26.5 (ZKW - J)	26.6
J30J - 66TJW/ZKW - J	42.9	37.3	8.7	31.4 (TJW - J)	32.9 (ZKW - J)	33.0
J30J - 74TJW/ZKW - J	38.8	33.5	9.7	27.5 (TJW - J)	29.0 (ZKW - J)	29.1
J30J - 100TJW/ZKW - J	54.7	45.7	9.7	35.0 (TJW - J)	36.6 (ZKW - J)	36.6

Locking accessories

Type ： L

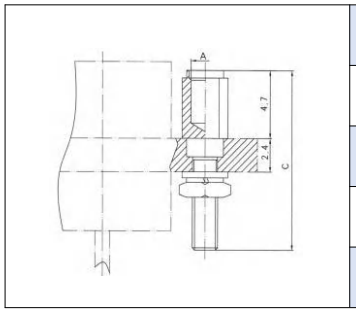


Type ： K, K1



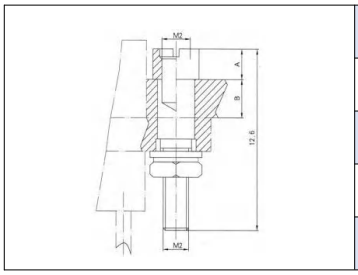
Mark	A
K	M2-6H
K1	0.086-56UNC-2A

Type ： P , P1 , P8 , P9



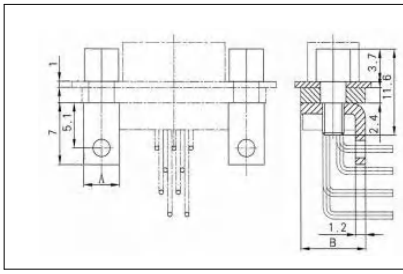
mark	A	B	C
P	M2-6H	M2-6H	12.6
P1	0.086-56UNC-2B	0.086-56UNC-2A	12.6
P8	M2-6H	M2-6H	15.6
P9	M2-6H	M2-6H	21.6

Type ： P0 , P3 , P4 ， P11



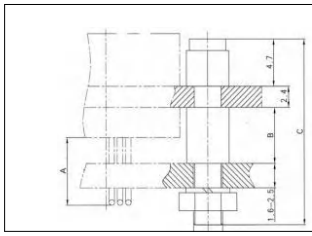
mark	A	B
P0	4.1	0
P3	3.3	1.4
P4	2.5	2.2
P11	1.3	3.4

Type ： P2



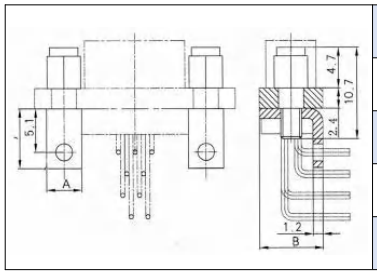
Cores	A	B
9~37	4.2	7.6
51	4.2	8.7
74	4.2	9.7
100	8.8	9.7

Type ： P5 , P10



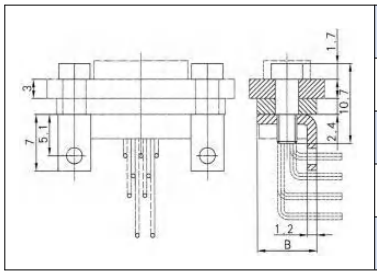
mark	A	B	C
P5	5.7	5.9	18.6
P10	8.0	8.4	20.5

Type ： P7



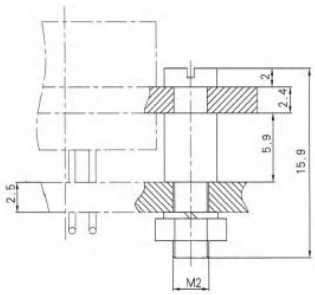
core	A	B
9 ~ 37	4.2	7.6
51	4.2	8.7
74	4.2	9.7
100	8.8	9.7

Type ： P14

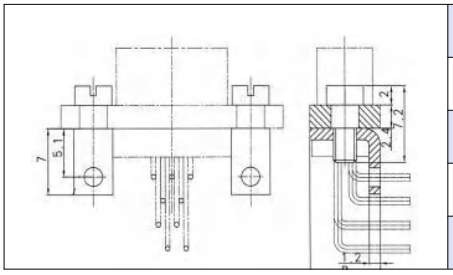


core	A	B
9 ~ 37	4.2	7.6
51	4.2	8.7
74	4.2	9.7
100	8.8	9.7

Type ： V



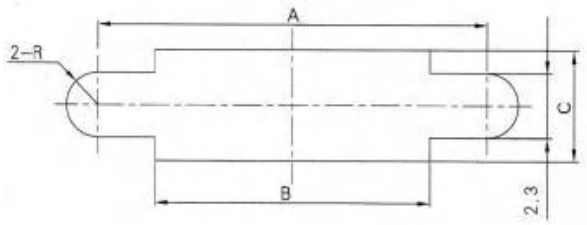
Type ： VI



Cores	A	B
9 ~ 37	4.2	7.6
51	4.2	8.7
74	4.2	9.7
100	8.8	9.7

Size of hole

Size of mounting before panel



Part number	A	B	C
J30J-9	14.3	10.2	7.0
J30J-15	18.2	14.1	7.0
J30J-21	22.0	17.9	7.0
J30J-25	24.5	20.5	7.0
J30J-31	28.3	24.3	7.0
J30J-37	32.2	28.1	7.0
J30J-51	30.86	26.9	8.1
J30J-66	37.3	33.4	8.1
J30J-74	33.5	29.4	9.3
J30J-100	45.7	37	9.3

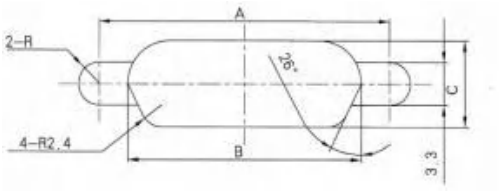
Part number	A	B	C
J30J-9-A	14.3	10.3	8.4
J30J-15-A	18.2	14.2	8.4
J30J-21-A	22.0	18.0	8.4
J30J-25-A	24.5	20.6	8.4
J30J-31-A	28.3	24.4	8.4
J30J-37-A	32.2	28.2	8.4
J30J-51-A	30.86	27.0	9.4
J30J-66-A	37.3	33.4	9.2
J30J-74-A	33.5	29.5	11.4
J30J-100-A	45.7	37.2	11.4

Part number	A	B	C
J30J-9-D	14.3	10.2	7.0
J30J-15-D	18.2	14.1	7.0
J30J-21-D	22.0	17.9	7.0
J30J-25-D	24.5	20.5	7.0
J30J-31-D	28.3	24.3	7.0
J30J-37-D	32.2	28.1	7.0
J30J-51-D	30.86	26.9	8.1
J30J-66-D	37.3	33.4	8.1
J30J-74-D	33.5	29.4	9.3
J30J-100-D	45.7	37.0	9.3

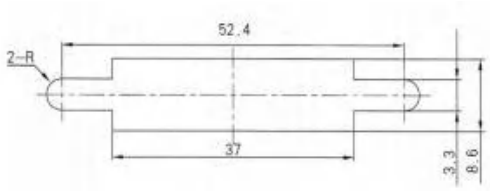
Part number	A	B	C
J30J-9-AD	14.3	10.3	8.4
J30J-15-AD	18.2	14.2	8.4
J30J-21-AD	22.0	18.0	8.4
J30J-25-AD	24.5	20.6	8.4
J30J-31-AD	28.3	24.4	8.4
J30J-37-AD	32.2	28.2	8.4
J30J-51-AD	30.86	27.0	9.4
J30J-66-AD	37.3	33.4	9.2
J30J-74-AD	33.5	29.5	11.4
J30J-100-AD	45.7	37.2	11.4

Part number	A	B	C
J30J-9-Q	21.0	10.2	7.0
J30J-15-Q	24.9	14.1	7.0
J30J-21-Q	28.7	17.9	7.0
J30J-25-Q	31.2	20.5	7.0
J30J-31-Q	35.0	24.3	7.0
J30J-37-Q	38.9	28.1	7.0
J30J-51-Q	37.6	26.9	8.1
J30J-66-Q	44.0	33.4	8.1
J30J-74-Q	40.2	29.4	9.3
J30J-100-Q	52.4	37.0	9.3

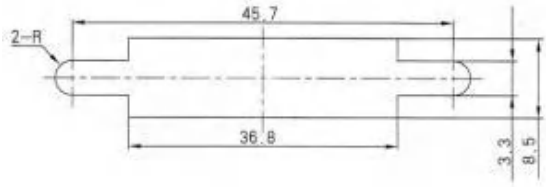
Size of mounting rear panel



J30J-9, 15, 21, 25, 31, 37, 51, 74



J30J-100TJ-Q/ZK-Q



J30J-100TJ/TJ-A/ZK/ZK-A

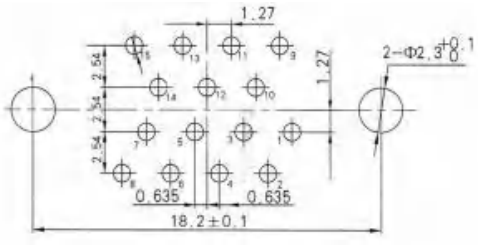
Pat number	A	B	C
J30J-9	14.30	10.2	6.3
J30J-15	18.20	14.1	6.3
J30J-21	22.00	17.8	6.3
J30J-25	24.50	20.4	6.3
J30J-31	28.30	24.2	6.3
J30J-37	32.20	28.1	6.3
J30J-51	30.86	26.9	7.4
J30J-66	37.30	33.4	7.4
J30J-74	33.50	29.4	8.6

Pat number	A	B	C
J30J-9-A	14.30	10.2	6.3
J30J-15-A	18.20	14.1	6.3
J30J-21-A	22.00	17.8	6.3
J30J-25-A	24.50	20.4	6.3
J30J-31-A	28.30	24.2	6.3
J30J-37-A	32.20	28.1	6.3
J30J-51-A	30.86	26.9	7.4
J30J-66-A	37.30	33.4	7.4
J30J-74-A	33.50	29.4	8.6

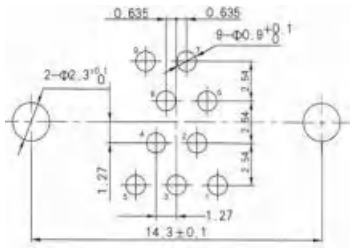
Pat number	A	B	C
J30J-9-Q	21.0	10.2	6.3
J30J-15-Q	24.9	14.1	6.3
J30J-21-Q	28.7	17.6	6.3
J30J-25-Q	31.2	20.5	6.3
J30J-31-Q	35	24.3	6.3
J30J-37-Q	38.9	28.1	6.3
J30J-51-Q	37.6	26.9	7.4
J30J-66-Q	44.0	33.4	7.4
J30J-74-Q	40.2	29.4	8.6

J30J PCB Hole dimensions

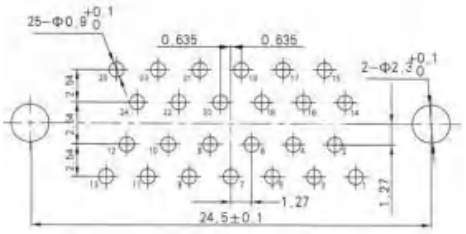
J30J-×TJN (Grid distance 2.54×2.54)



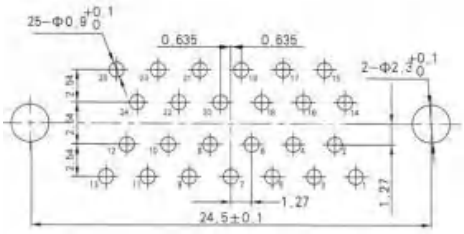
J30J - 9 TJN



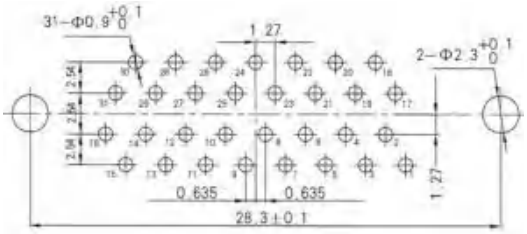
J30J - 15 TJN



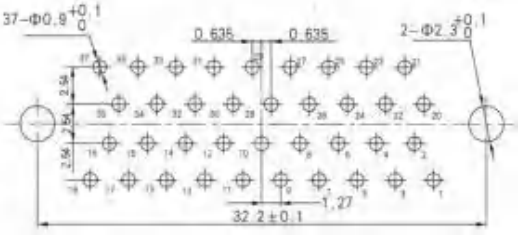
J30J - 21 TJN



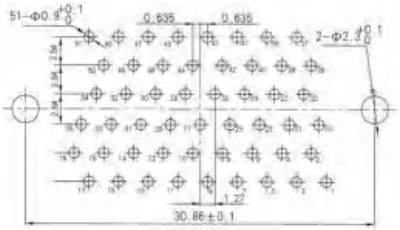
J30J - 25 TJN



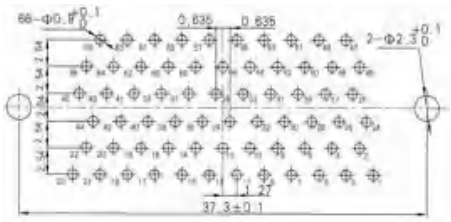
J30J - 31 TJN



J30J - 37 TJN

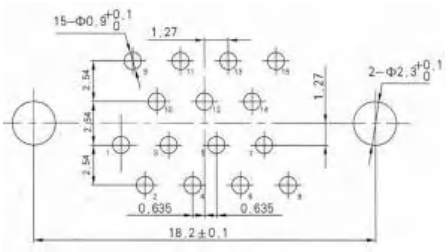


J30J - 51 TJN

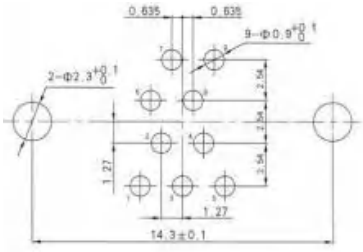


J30J - 66 TJN

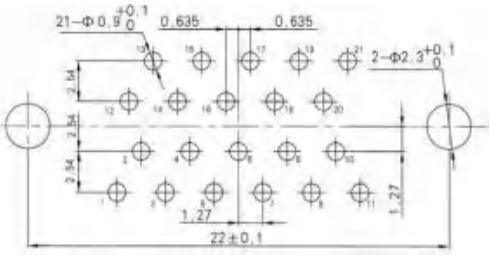
J30J-×ZKN(Grid distance 2.54x2.54)



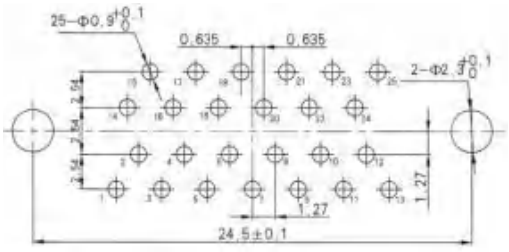
J30J - 9 ZKN



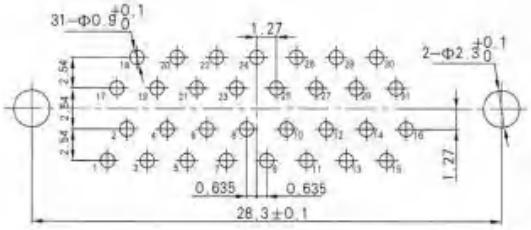
J30J - 15 ZKN



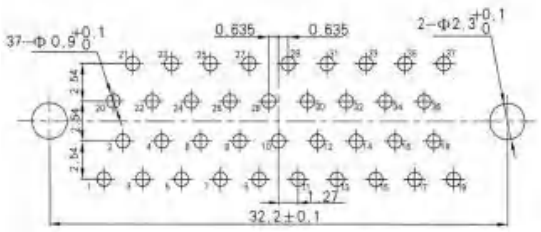
J30J - 21 ZKN



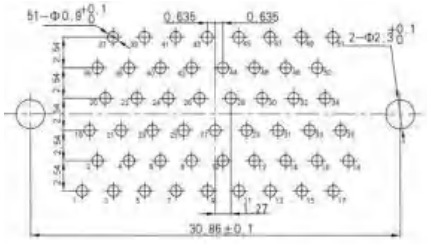
J30J - 25 ZKN



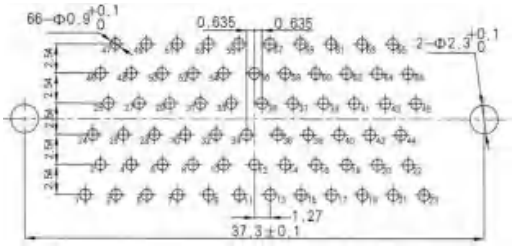
J30J - 31 ZKN



J30J - 37 ZKN

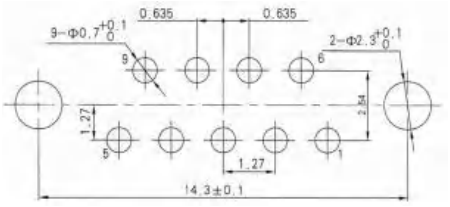


J30J - 51 ZKN

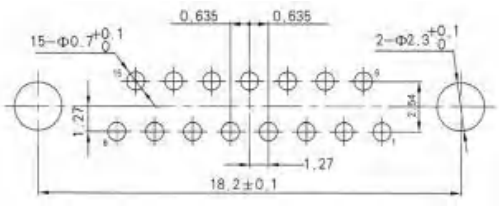


J30J - 66 ZKN

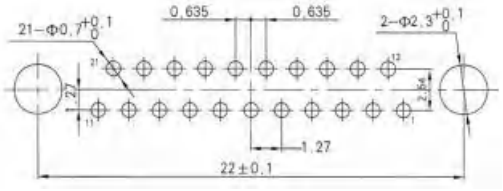
J30J-×TJN-J(Grid distance 1.27x2.54)



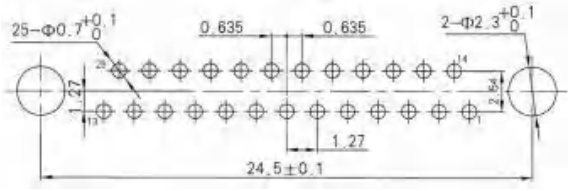
J30J - 9 TJN - J



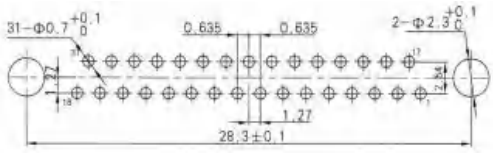
J30J -15 TJN - J



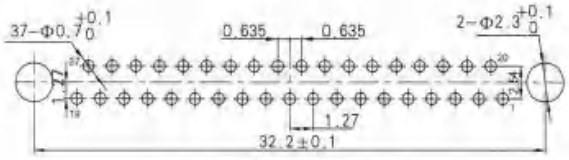
J30J - 21 TJN - J



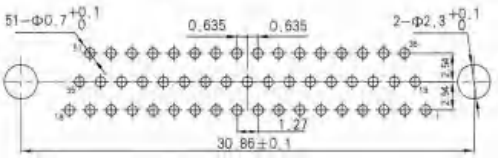
J30J - 25 TJN - J



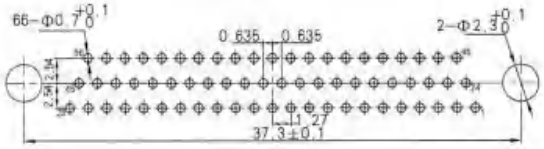
J30J - 31 TJN - J



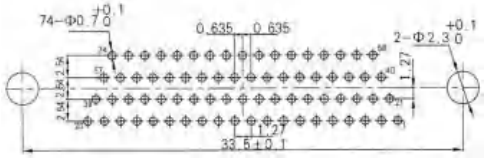
J30J - 37 TJN - J



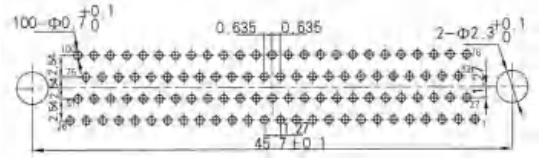
J30J - 51 TJN - J



J30J - 66 TJN - J

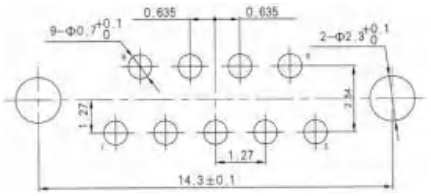


J30J - 74 TJN - J

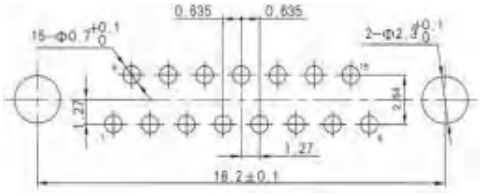


J30J - 100 TJN - J

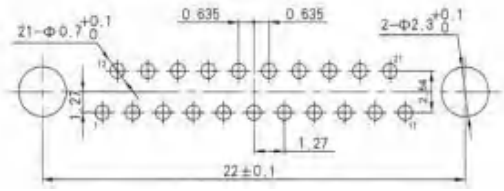
J30J-×ZKN-J



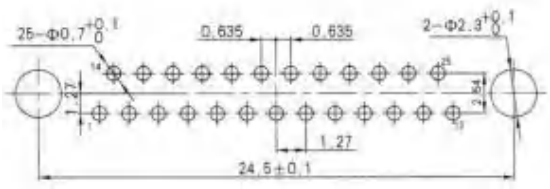
J30J - 9 ZKN - J



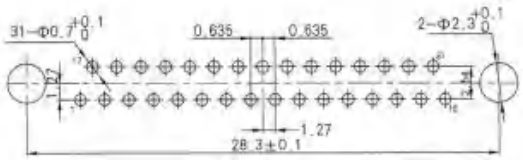
J30J - 15 ZKN - J



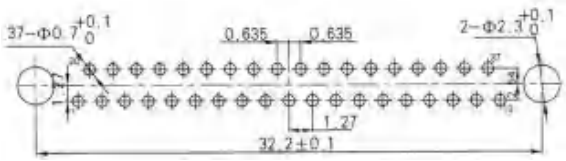
J30J - 21 ZKN - J



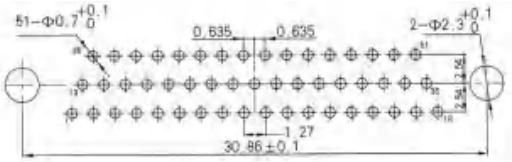
J30J - 25 ZKN - J



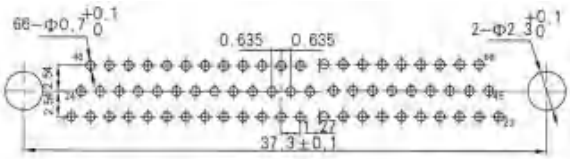
J30J - 31 ZKN - J



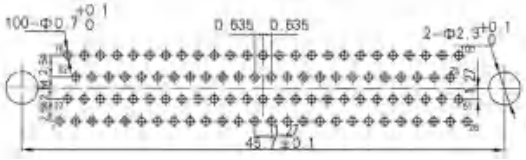
J30J - 37 ZKN - J



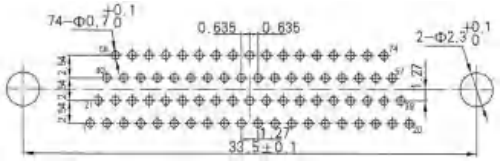
J30J - 51 ZKN - J



J30J - 66 ZKN - J

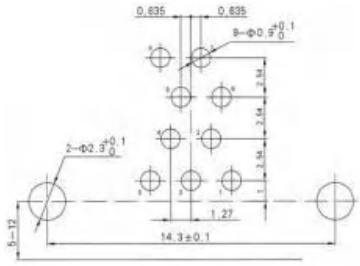


J30J - 74 ZKN - J

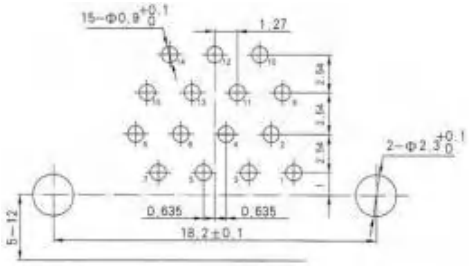


J30J - 100 ZKN - J

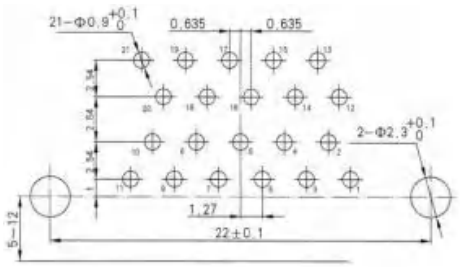
J30J-×TJW(Grid distance 2.54x2.54)



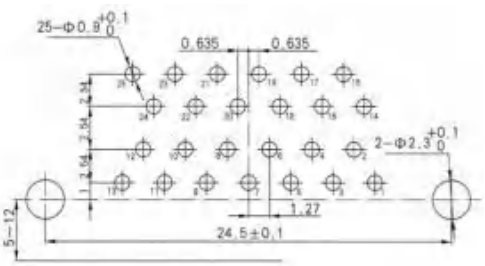
J30J - 9 TJW



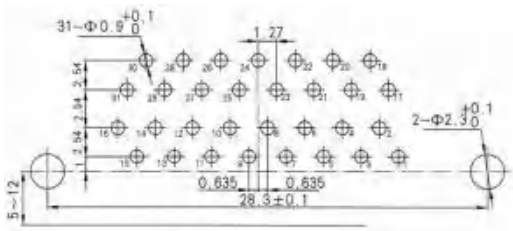
J30J - 15 TJW



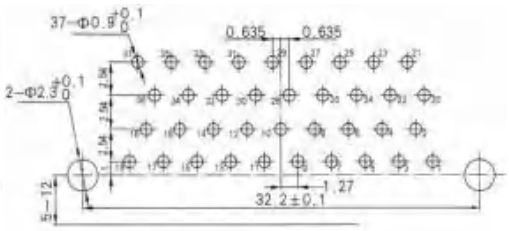
J30J - 21 TJW



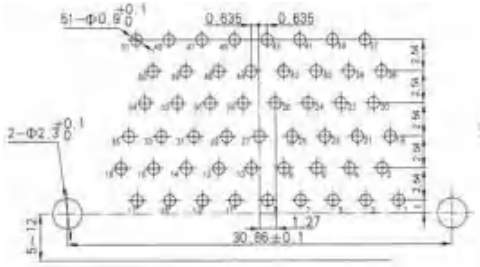
J30J - 25 TJW



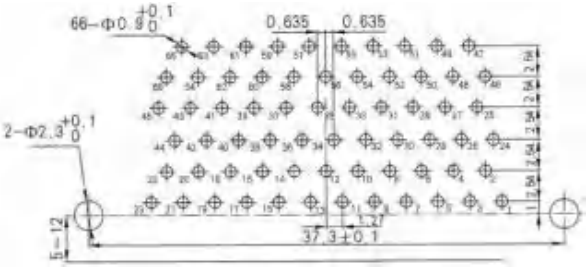
J30J - 31 TJW



J30J - 37 TJW

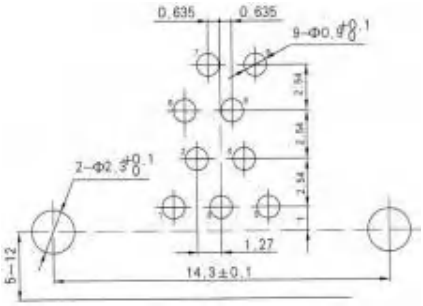


J30J - 51 TJW

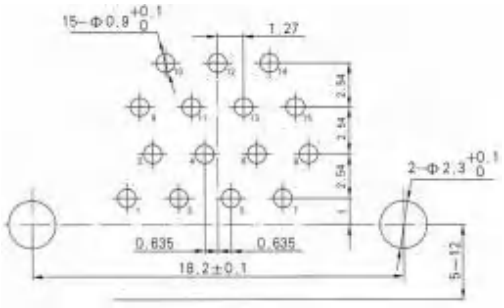


J30J - 66 TJW

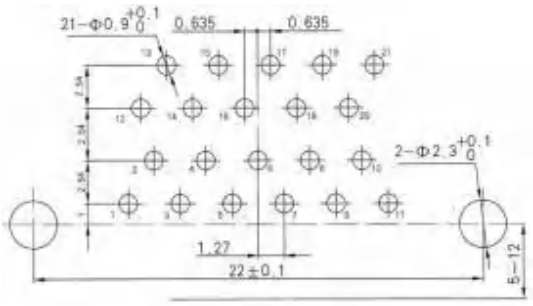
J30J-×ZKW(Grid distance 2.54x2.54)



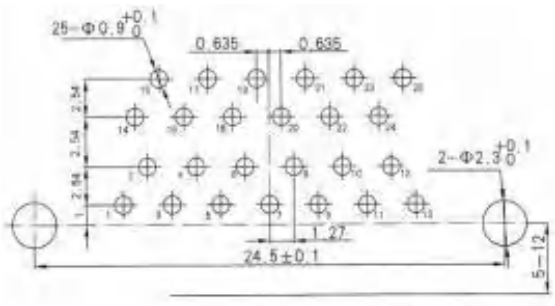
J30J - 9 ZKW



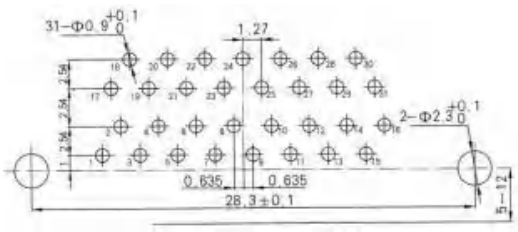
J30J - 15 ZKW



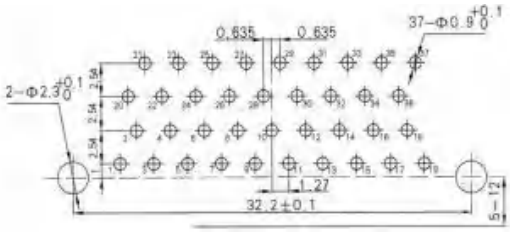
J30J - 21 ZKW



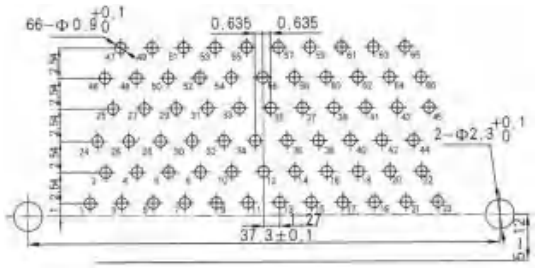
J30J - 25 ZKW



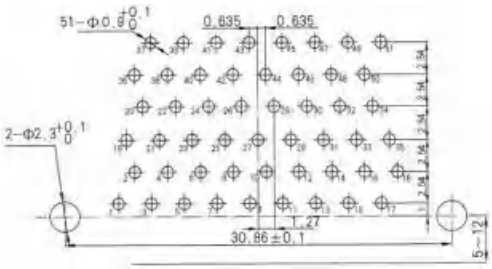
J30J - 31 ZKW



J30J - 37 ZKW

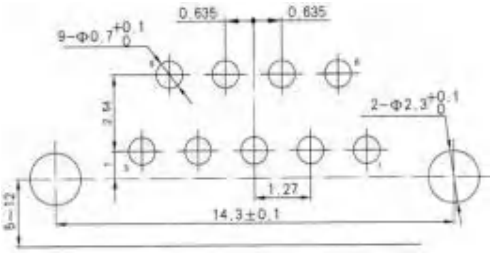


J30J - 51 ZKW

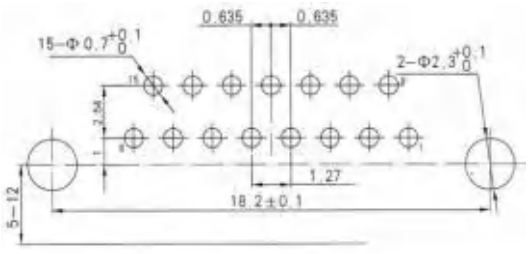


J30J - 66 ZKW

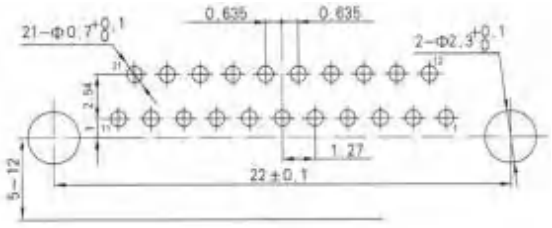
J30J-×TJW-J(Grid distance 2.54x2.54)



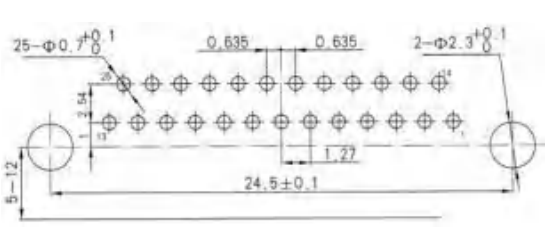
J30J - 9 TJW - J



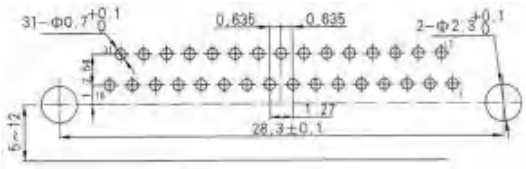
J30J - 15 TJW - J



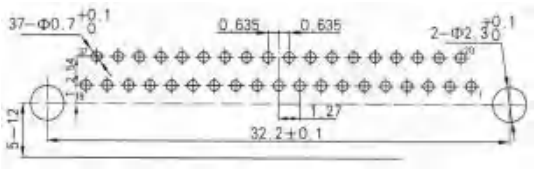
J30J - 21 TJW - J



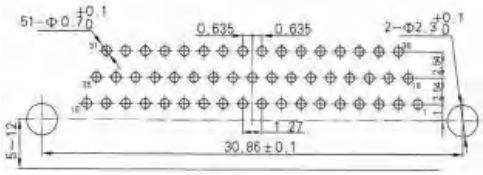
J30J - 25 TJW - J



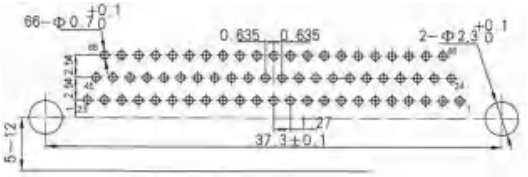
J30J - 31 TJW - J



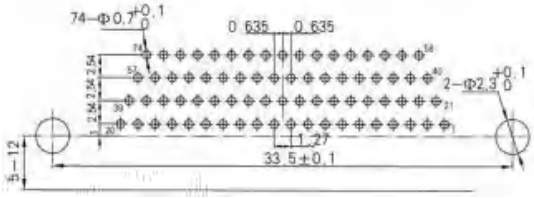
J30J - 37 TJW - J



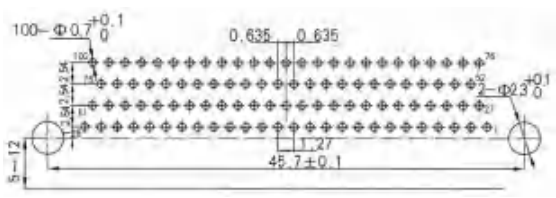
J30J - 51 TJW - J



J30J - 66 TJW - J

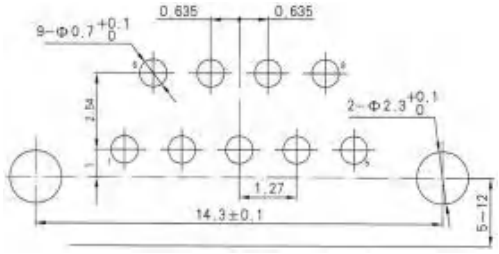


J30J - 74 TJW - J

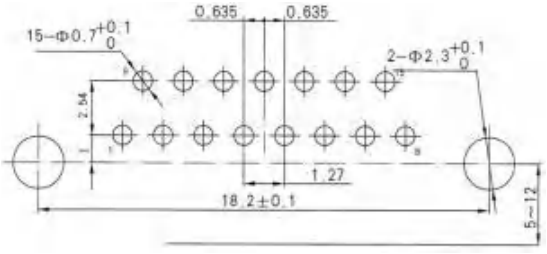


J30J - 100 TJW - J

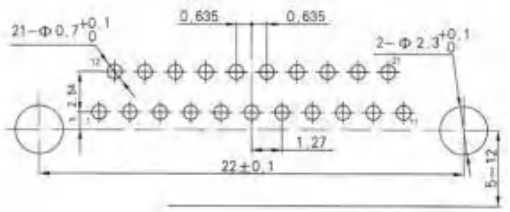
J30J-×ZKW-J(Grid distance 1.27x2.54)



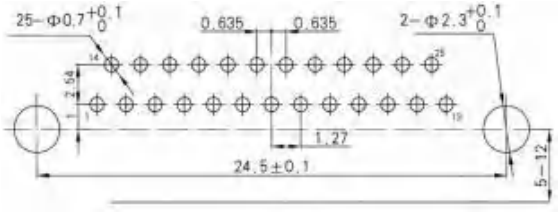
J30J - 9 ZKW - J



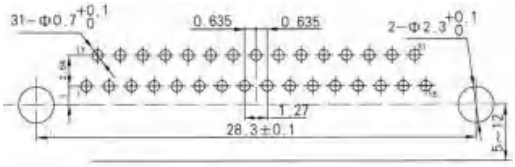
J30J - 15 ZKW - J



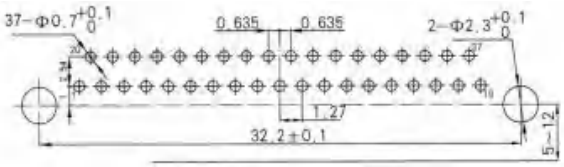
J30J - 21 ZKW - J



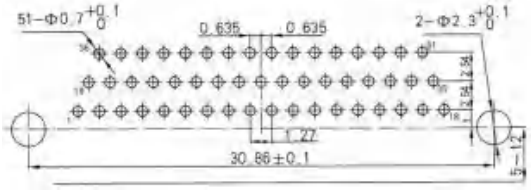
J30J - 25 ZKW - J



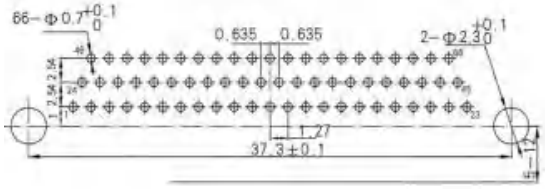
J30J - 31 ZKW - J



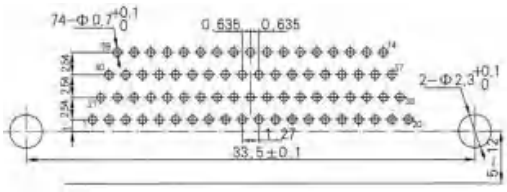
J30J - 37 ZKW - J



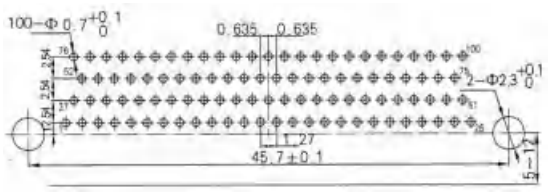
J30J - 51 ZKW - J



J30J - 66 ZKW - J



J30J - 74 ZKW - J



J30J - 100 ZKW - J

- Wire: AF/250-0.15 mm2, White - Copper wire with silver plating as per GJB142A-94. Environment resisting - Corrosion resistant with firewall barrier - 65°C to +200°C.
- Encapsulant: Epoxy resin, Environment resisting - Corrosion resistant with firewall barrier - 65°C to +200°C.
- Seal: Silicon Rubber.

How to Build Your Connector Part Number

J14B -26 T K

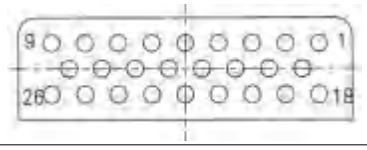
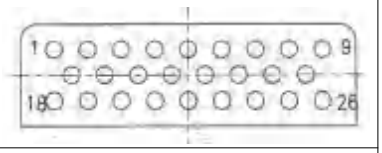
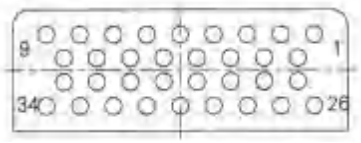
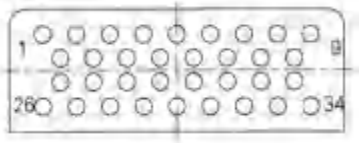
Basic series

Number of contact : 26, 34

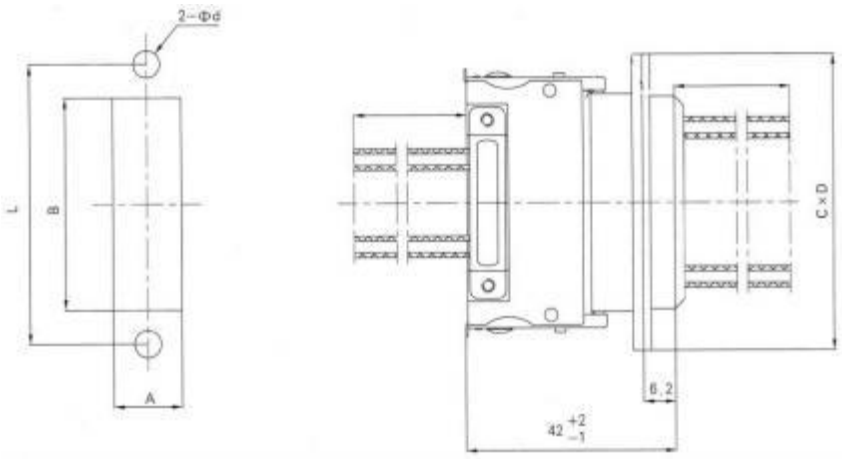
Type of and receptacle : T=Plug Z=Receptacle

Type of contact : J=Pin K=Socket

Contact layout

Contact number	Male pin	Female pin
26		
34		

Shell size



Part number	L	A±0.05	B±0.05	C	D	d
J14B-26T/Z	28	6.6	21.2	12	34	3.0
J14B-26TK/ZJ						
J14B-34T/Z	34	10.0	25.0	16	41	3.5
J14B-34TK/ZJ						

J14F series rectangle electrical connector

Conform to Chinese military connector standard GJB142A-94. J14F series is extended from J14 series, designed as crimp contact and higher density of contact.



Performance specification

- Temperature rating: -55 °C ~ +125 °C
- Relative humidity: at 40 °C ±2 °C, 90% ~ 95%
- Vibration: at 10 Hz~2000 Hz, acceleration 196 m/s²
- Shock: 980 m/s²
- Atmospheric pressure: 101.3 KPa ~ 4.39 KPa
- Acceleration: 780 m/s²

Electrical performance

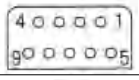
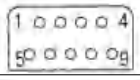
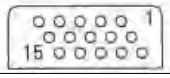
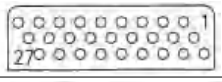
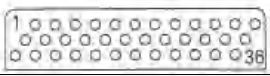
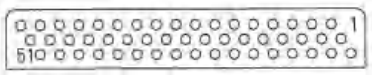
- Rated current: 2 A
- Contact resistance: ≤ 15 MΩ
- Withstanding voltage: ≤ 800 V
- Endurance: ≥ 500 cycles

How to Build Your Connector Part Number

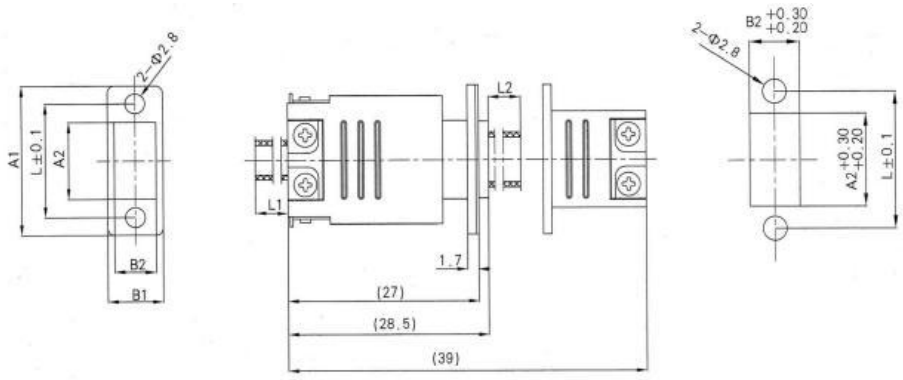
J14F -15 Z J B

Basic series
Number of contact : 9,15,27,36,51
Type of and receptacle : T=Plug Z=Receptacle
Type of contact : J=Pin K=Socket
Type of mounting : B=Panel mounting L=Cable mounting

Contact layout

Contact number	Male pin	Female pin
9		
15		
27		
36		
51		

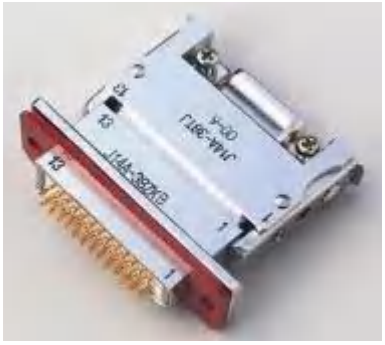
Shell size



Part number		A1	A2	L	B1	B2
J14F-9TK/ZJB J14F-9TK/ZJL	J14F-9TJ/ZKB J14F-9TJ/ZKL	19	9.4	14.5	6.7	4.7
J14F-15TK/ZJB J14F-15TK/ZJL	J14F-15TJ/ZKB J14F-15TJ/ZKL	21	10.8	16.0	7.9	5.9
J14F-27TK/ZJB J14F-27TK/ZJL	J14F-27TJ/ZKB J14F-27TJ/ZKL	26	16.4	21.5	7.9	5.9
J14F-36TK/ZJB J14F-36TK/ZJL	J14F-36TJ/ZKB J14F-36TJ/ZKL	31	20.6	26.0	7.9	5.9
J14F-51TK/ZJB J14F-51TK/ZJL	J14F-51TJ/ZKB J14F-51TJ/ZKL	38	27.6	33.0	7.9	5.9

J14A series rectangle electrical connector

Conform to Chinese military connector standard GJB142A-94.
J14A series is extended from J14 series.



Performance specification

- Temperature rating: -55 °C ~ +125 °C
- Relative humidity: at 40 °C ±2 °C, 90% ~ 95%
- Vibration: at 10 Hz~2000 Hz, acceleration 196 m/s²
- Shock: 980 m/s²
- Atmospheric pressure: 101.3 KPa ~ 4.39 KPa
- Acceleration: 780 m/s²

Electrical performance

- Rated current: 2 A
- Contact resistance: ≤ 15 MΩ
- Withstanding voltage: ≤ 800 V
- Endurance: ≥ 500 cycles

How to Build Your Connector Part Number

J14A -9 Z K 1 B 2

Basic series

Number of contact :
9,15,20,26,38,51,62,74,101

Type of and receptacle : T=Plug Z=Receptacle

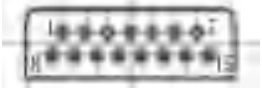
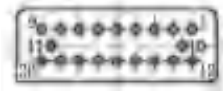
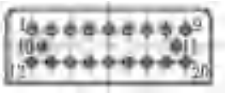
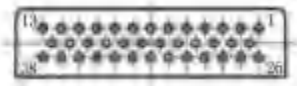
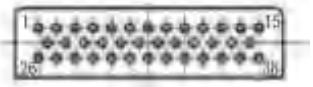
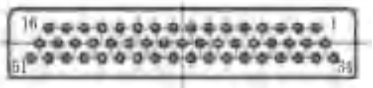
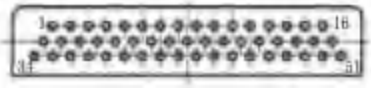
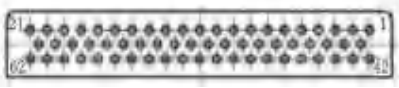
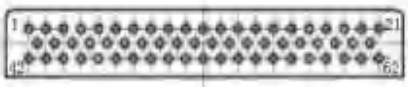
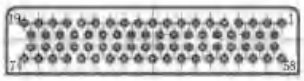
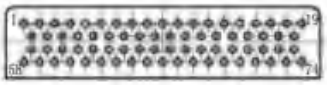
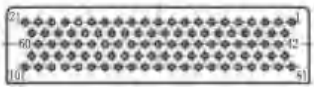
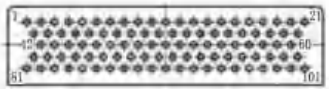
Type of contact : J=Pin K=Socket

Contact wiring method :
Not labeled=Ordinary welding form
1=The contact terminal is in the form of a bent (90 '') plug-in printed board
2=The contact terminals are in the form of direct insertion with printed circuit boards
3=The contact terminal is in the form of a direct insertion printed circuit board
(extended by 9.2mm on the basis of 2)
1，2 ，3 are only applicable to sockets

Type of mounting : B=Panel mounting L=Cable mounting

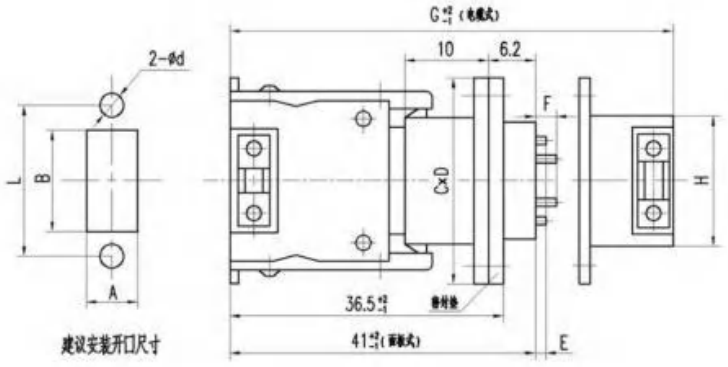
Flange form (only applicable to sockets) :
not labeled - ordinary horizontal installation flange form;
1. Ordinary horizontal installation with narrow flange form;
2. Install flange plates on the side.

Contact layout

Contact number	Male pin	Female pin
9		
15		
20		
26		
38		
51		
62		
74		
101		

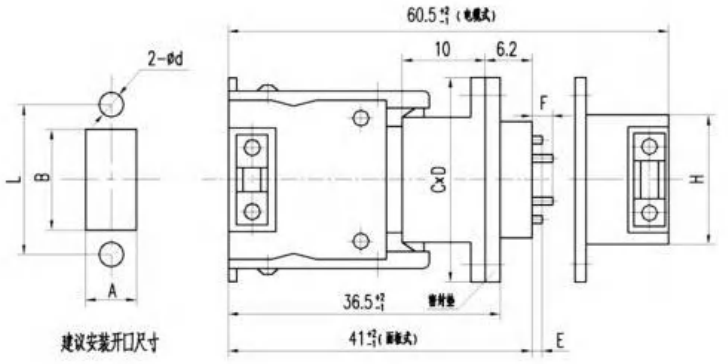
Shell size

Ordinary plugs and ordinary welded cable and panel sockets



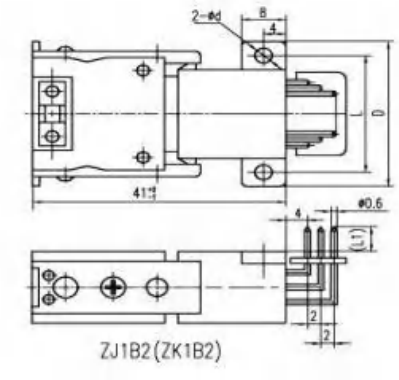
Contact number	L±0.1	$A^{+0.4}_{+0.2}$	$B^{+0.4}_{+0.2}$	C	D	d	$E^{+0.3}_{-0.2}$	$F^{+0.3}_{-0.2}$	G	H
9	22	6.6	15.2	28	12	3	2.8	2.8	60.5	$17^{0}_{-0.1}$
15	28	6.6	21.2	34	12	3		2.8	60.5	$23^{0}_{-0.15}$
20	34	10	25	41	16	3.5		2.8	60.5	$28.2^{0}_{-0.15}$
26	34	10	25	41	16	3.5		2.8	60.5	$28.2^{0}_{-0.15}$
38	42	10	33	49	16	3.5		2.8	60.5	$36.2^{0}_{-0.15}$
51	52	10	43	59	16	3.5		2.8	62.5	$46.1^{0}_{-0.15}$
62	58	10	49	65	16	3.5		2.8	60.5	$52.2^{0}_{-0.15}$
74	54	12	45	61	18	3.5		4.8	60.5	$47.4^{0}_{-0.15}$
101	58	14	49	65	20	3.5		4.8	60.5	$52.2^{0}_{-0.15}$

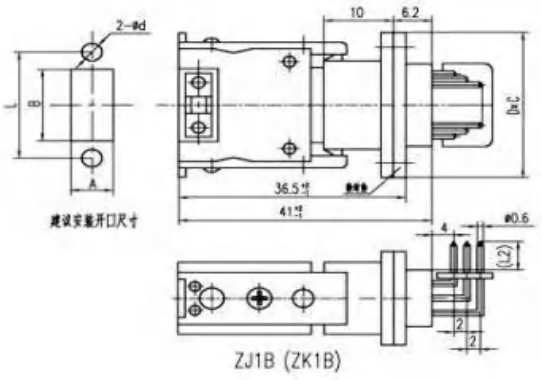
Ordinary plug and ordinary welded narrow flange socket



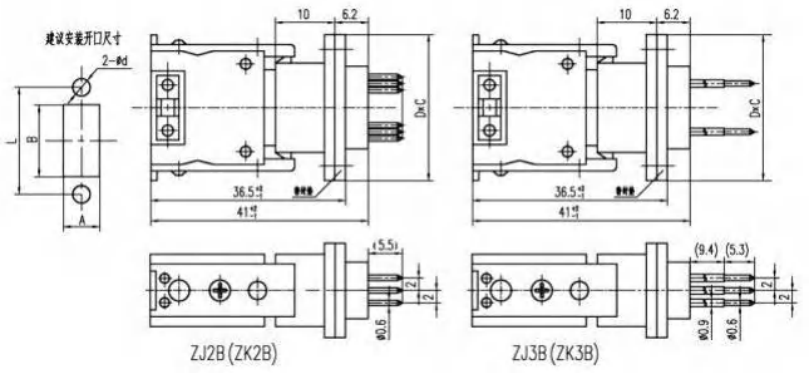
Contact number	L±0.1	$A^{+0.4}_{+0.2}$	$B^{+0.4}_{+0.2}$	C	D	d	$E^{+0.3}_{-0.2}$	$F^{+0.3}_{-0.2}$	H
9	22	6.6	15.2	28	8.9	3	2.8	2.8	$17_{-0.15}^{0}$
15	28	6.6	21.2	34	8.9	3		2.8	$23_{-0.15}^{0}$
20	34	10	25	41	12	3.5		2.8	$28.2_{-0.15}^{0}$
26	34	10	25	41	12	3.5		2.8	$28.2_{-0.15}^{0}$
38	42	10	33	49	12	3.5		2.8	$36.2_{-0.15}^{0}$
51	52	10	43	59	12	3.5		2.8	$46.1_{-0.15}^{0}$
62	58	10	49	65	12	3.5		2.8	$52.2_{-0.15}^{0}$
74	54	12	45	61	14	3.5		4.8	$47.4_{-0.15}^{0}$
101	58	14	49	65	16	3.5		4.8	$52.2_{-0.15}^{0}$

Ordinary plug and 90 ° curved plug-in printed board socket



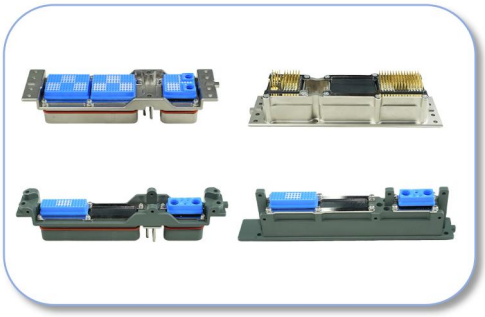


Contact number	L±0.1	$A^{+0.4}_{+0.2}$	$B^{+0.4}_{+0.2}$	C	D	d	Contact		Pin diameter	L1	L2
							Dot Pitch	Array Pitch			
9	22	6.6	15.2	28	8.9	3	2	2	ϕ0.6	3	4.2
15	28	6.6	21.2	34	8.9	3	2	2		3	4.2
20	34	10	25	41	12	3.5	2	2		2.5	3.5
26	34	10	25	41	12	3.5	2	2		2.5	3.5
38	42	10	33	49	12	3.5	2	2		2.5	3.5
51	52	10	43	59	12	3.5	2	2		2.5	3.5
62	58	10	49	65	12	3.5	2	2		2.5	3.5
74	54	12	45	61	14	3.5	2	2		2.5	3.5
101	58	14	49	65	16	3.5	2	2		2.5	3.5



Contact number	L±0.1	A +0.4 +0.2	B +0.4 +0.2	C	D	d	Contact		Pin diameter
							Dot Pitch	Array Pitch	
9	22	6.6	15.2	12	28	3	2	2	Φ0.6
15	28	6.6	21.2	12	34	3	2	2	
20	34	10	25	16	41	3.5	2	2	
26	34	10	25	16	41	3.5	2	2	
38	42	10	33	16	49	3.5	2	2	
51	52	10	43	16	59	3.5	2	2	
62	58	10	49	16	65	3.5	2	2	
74	54	12	45	18	61	3.5	2	2	
101	58	14	49	20	65	3.5	2	2	

S6 (ARINC600) series electrical connector



Comply with ARINC600 standard.
Adopts hexagonal coding to prevent errors, with 99 error-proof keys.
Different shell materials and coatings can be used to adapt to different environmental requirements.

- Integrated signal transmission ,different contact types , including low frequency , power , high speed differential , high frequency and optical contacts.
- Module structure , different combination of insulator and shell to meet different need.
- Standard 8# RF contact working frequency 0~500 MHz , float 8# RF contact working frequency 0~18 GHz.

Performance specification

- **Mechanical life :** ≥ 500 cycles
- **Shock :** 11ms half sine wave , acceleration 50g
- **Vibration :** Functional vibration : 15~2000 Hz , power spectral density 0.126G2/Hz , duration 6h
  Durable vibration : 15~2000 Hz , power spectral density 0.201G2/Hz , duration 7.5h
- **Temperature :** -65℃~+150℃
- **Salt spray :** Class F : 96h Class W : 500h Class M :192h (acidic atmosphere)
- **Fluid resistance :** Resistant to a variety of fuels , coolants and other oils
- **Insulation resistance :** ≥ 5000 MΩ (500 V DC)
- **Low-frequency contact's rated current , contact resistance , withstanding voltage :**

Contact	AWG	Rated current	Contact resistance	Withstanding voltage		
				Sea level	15000 m	30480 m
22D	26 24 22	2 3 5	11	1300	500	-
20#	24 22 20	3 5 7.5	8.5	1500	500	-
16#	20 18 16	7.5 10 13	5	1500	-	500
12#	14 12	17 23	2.5	1500	-	500
10#	10	40	1.2	1500	-	500
8#	8	53	0.7	1500	-	500
4#	6	80	0.35	1500	-	500

High speed differential signal :

Transmission rate	1.65 Gbps	Next end crosstalk	≥ 30 dB
Characteristics impedance	100 Ω	Insertion loss	≤ 0.5dB (250 MHz)

CAN bus signal and ARINC429 signal :

Transmission rate		1 Mbps
Characteristics impedance		120 Ω
Rared voltage		50 V
EMI shielding Leakage attenuation (dB/min)	800 MHz ~ 1000 MHz	50 dB
	300 MHz ~ 400 MHz	51 dB
	200 MHz	53 dB
	100 MHz	55dB

1553B signal :

Transmission rate		1 Mbps
Characteristics impedance		70~85 Ω
Rared voltage	Sea level	500 V
	21000 m	125 V
Voltage drop	Inner contact	< 55 mV/1A
	Middle contact	< 55 mV/1A
	Outer contact	< 75 mV/1A

High frequency signal :

Coaxial contact size		Standard #8	Standard #5	Standard #1
Characteristics impedance		75 Q		50 Q
Band width		0~500 MHz		0~2 GHz
Withstanding	Sea level	750 V		
Voltage drop	Inner contact	≤10 mQ		
	Outer contact	≤1.5 mQ		
VSWR		≤1.3		≤1.5
Insertion loss		≤0.3 dB		

Optical signal :

Optical contact size	16# Optical contact	A8T Optical contact
Insertion loss (single mode)	≤1.5dB	
Insertion loss (multi-mode)	≤1.2dB	

Ordering information

S6 N G F 2 TS Y 0199 02 F - S - G - 02

Basic series

Connector type :

Blank - Environment resistant (sealed)

N - Non - environment resistant (unsealed)

Connector type :

Blank - Electrical connector

G - Optical hybrid

Plating :

F - Electroless nickel planting

W - Cadmium

M - Resistant to marine environments

Shell size :

1-3 cavities narrow shell

2-3 cavities standard shell

3-6 cavities standard shell

Plug and receptacle , contact size :

TS - Plug (with socket)

ZP - Receptacle (with in)

Contact type :

Y - Crimp B - Rear removal PCB

B1 - Front removal PCB (Pin length 3.8mm)

B2 - Front removal PCB (Pin length 7.3mm)

B3 - Front removal PCB (Pin length 9.5mm)

B4 - Front removal PCB (Pin length 12.7mm)

PCB form for S6-2 , S6-3 series sockets only , Plug without PCB form

B2 front removal PCB can replace Class B Rear removal PCB

Contact layout : 0086 (See the contact layout figure)

Positioning key :

Blank - default is 01 , 02 , 03.....(See connector positioning identification device for details)

Installation method :

Blank - Standard installation

F - Floating installation (floating amount ±0.25mm)

F01 - large floating installation (floating amount ± 0.75mm)

Shielded device :

Non - shielded product

-S-H-Shielded product (only applicable to plug)

Mounting hole type :

Blank through-hole mounting

G-M3 threaded hole mounting

Retrofit design number

-01 , -02 .....

Part number example

S6GM2TSY0199-S-G : S6-2 series plug ， combination code is 0199 ， marine environment resistant coating, Plug (with socket),crimping , the plug is a sealed and shielded photoelectric hybrid type,01 positioning key, installation method is M3 threaded hole.

NOTES

1. Pins should be installed in the 22D insert of plug and sockets should be installed in the other inserts.Sockets should be installed in the 22D insert of receptacle and pins should be installed in the other inserts.Other contact sizes, not 22D contact size,would be considered during ordering.
2. 22D,20#,16#and12#contacts can be supplied with the finished products and applicable high frequency,coaxial, differential and optical fiber contacts should be ordered separately;
3. There is no locking mechanism between plug and receptacle and the locking can be met by the locking mechanism of the applicable equipment. The mounting style and the mating dimension is in picture 1.
4. S6 series metal rack connector is mounted on the board through screws.Receptacle uses rear mounting,which is mounted inside the cabinet.See picture one for details.
5. If customer orders float products,to ensure the products float effect, choose 4~6 mounting hole on the flange to mount it.Float range ±0.25mm.If customers use crosswise mounting type,the plug needs to be 0.5mm upside the receptacle in vertical direction.It is because there would be some small interval in the mounting.
6. In the mating process,the mounting dimension should be designed according to the cabinet and the rack dimension.If the receptacle is upside the plug,the connectors can't be mate.

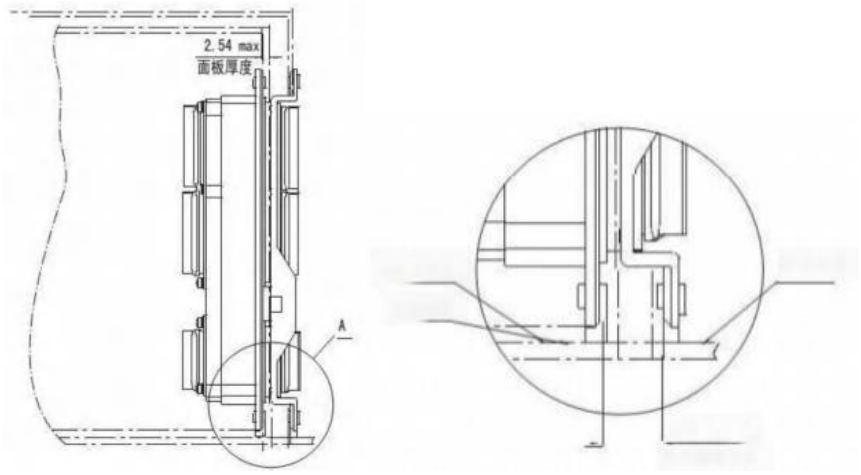
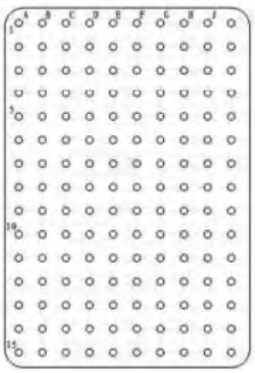
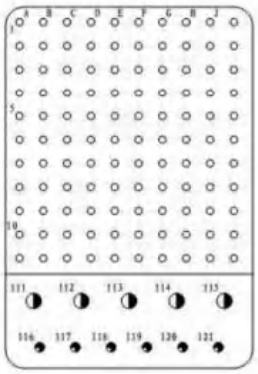
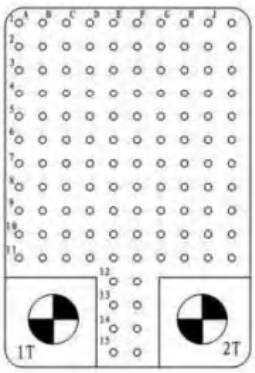
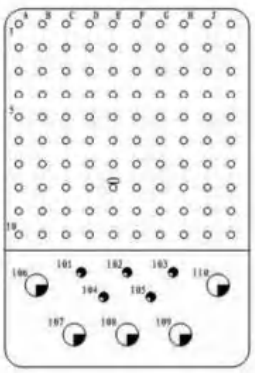


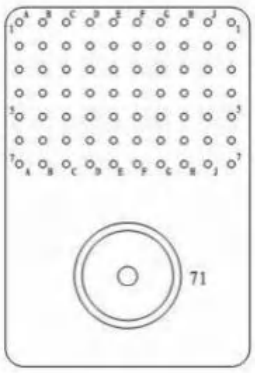
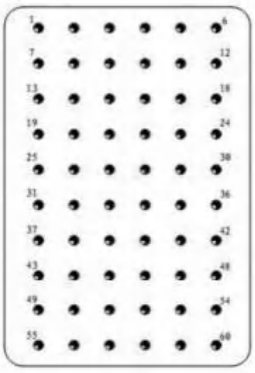
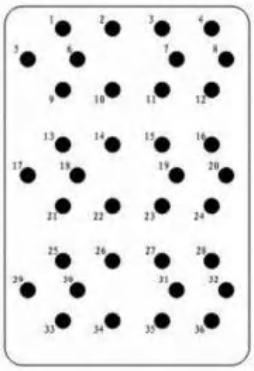
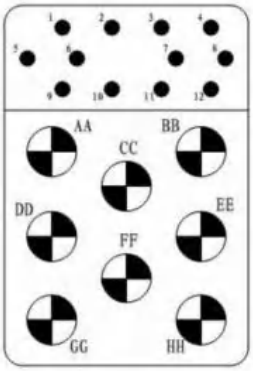
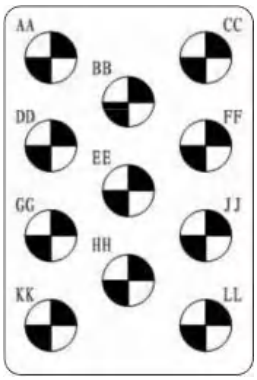
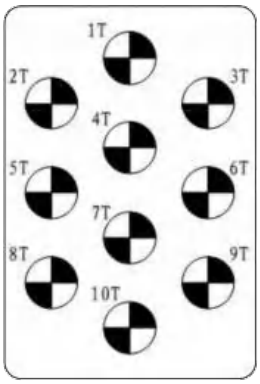
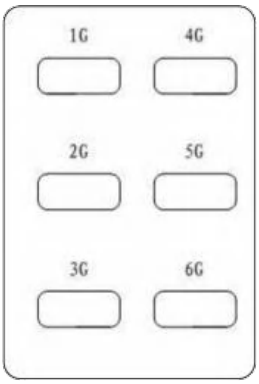
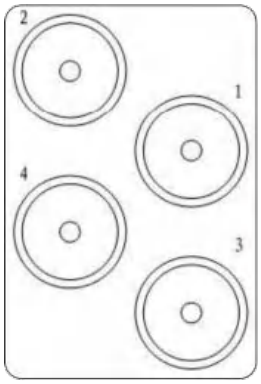
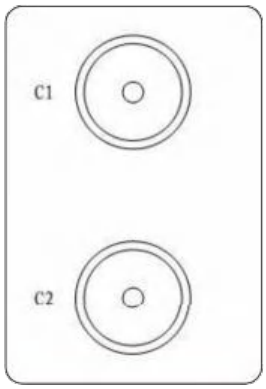
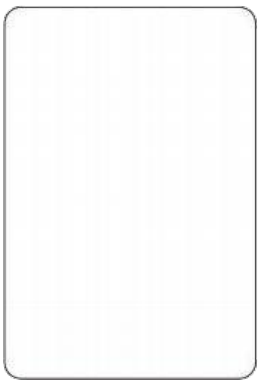
Figure 1 S6 series standard installation plug and receptacle installation dimensions

Contact layout (Mating view of receptacle insulator)

Standard shell A/B/D/E cavity layout

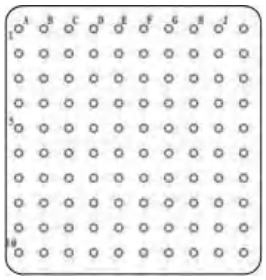
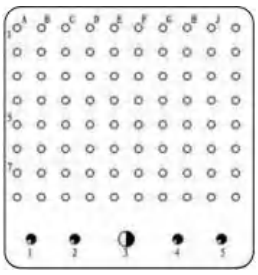
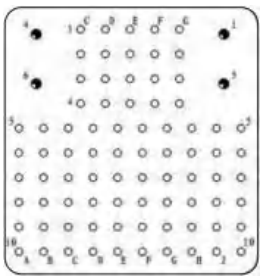
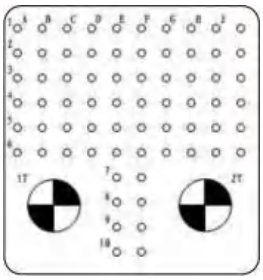
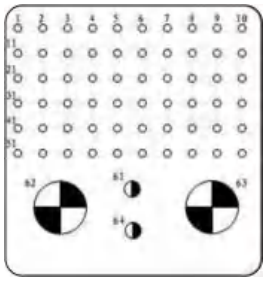
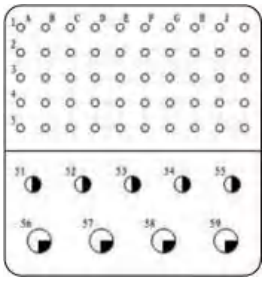
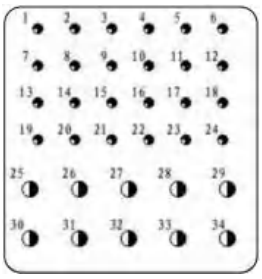
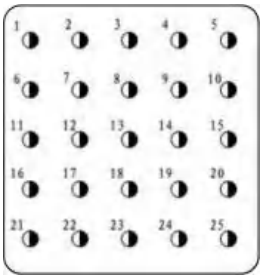
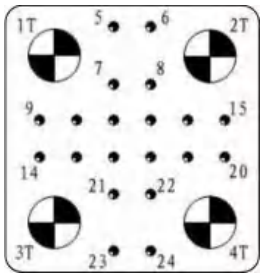
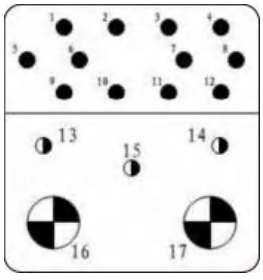
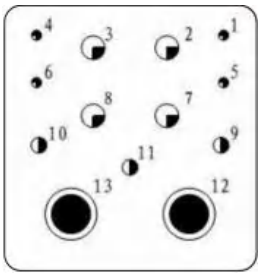
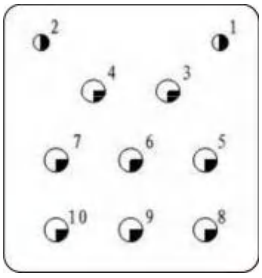
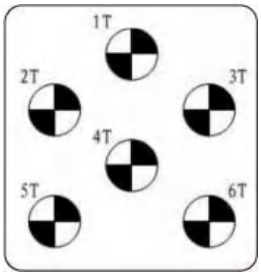
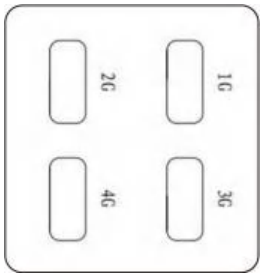
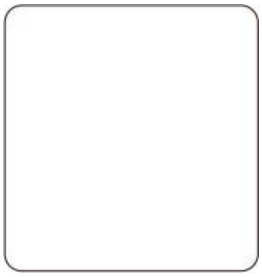
I -150	I -121	I -120T2	I -110
			
150-22D	110-22D，6-20#，5-16#	118-22D，2-8#	100-22D，5-20#，5-12#

Standard shell A/B/D/E cavity layout

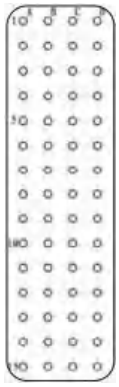
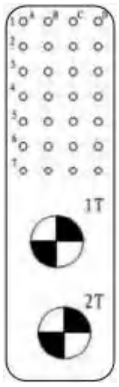
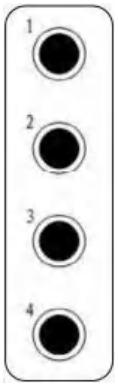
I -71C1	I -60	I -36G36	I -20F12T8
			
70-22D,1-1#	60-20#	36-A8T	12-A8T,8-8#
I -11T11	I -10T10	I -6M6	I -C4
			
11-8#	10-8#	6-MP0	4-1#
I -C2	I -0		
			
2-1#	No contact parts		

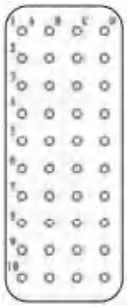
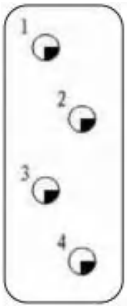
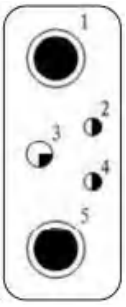
Contact size: ○22D ◔ 20# ◑ 16# ◕ 12# 8# 5# 1# ● A8T ▭ MP0

Standard shell C/F cavity layout

Ⅱ-100  100-22D	Ⅱ-60  80-22D,4-20#,1-16#	Ⅱ-84  80-22D,4-20#	Ⅱ-20F12T8  68-22D,2-8#
Ⅱ-64T2  60-22D,2-16#,2-8#	Ⅱ-10T10  50-22D,5-16#,4-12#	Ⅱ-34  24-20#,10-16#	Ⅱ-25  25-16#
Ⅱ-24T4  20-20#,4-8#	Ⅱ-10T10  12-A8T,3-16#,2-8#	Ⅱ-13W2  4-20#,3-16#,4-12#,1-5#	Ⅱ-10  2-16#,8-12#
Ⅱ-6T6  6-8#	Ⅱ-4M4  4-MP0	Ⅱ-0  No contact parts	

Contact size: ○22D ◔ 20# ◑ 16# ◕ 12# 8# 5# 1# ● A8T

Standard shell C/F cavity layout			
Ⅰ-60	Ⅰ-30T2	Ⅰ-W1	Ⅰ-0
			
60-22D	80-22D,4-20#,1-16#	80-22D,4-20#	No contact parts
Contact size: ○22D ◔ 20# ◑ 16# ◕ 12# ◍ 8# ● 5# ◎ 1# ● A8T			

Standard shell C/F cavity layout			
Ⅱ-40	Ⅱ-4	Ⅱ-5W2	Ⅱ-0
			
40-22D	4-12#	2-16#, 1-12#, 2-5#	No contact parts
Contact size: ○22D ◔ 20# ◑ 16# ◕ 12# ◍ 8# ● 5# ◎ 1# ● A8T			

S6 series products can realize different modules combination.Customers please choose suitable types according to need.In product ordering,first choose the module type for each cavity,and then find ou the combination code.If the combination P/N in below form can not meet your need,please contact us to develop it.

Product combination code figure

Code	Shell size	Insulator layout					
		A	B	C	D	E	F
0005	1#	Ⅰ-0	Ⅰ-0	Ⅱ-5W2	——	——	——
0060	1#	Ⅰ-0	Ⅰ-60	Ⅱ-0	——	——	——
A060	1#	Ⅰ-60	Ⅰ-0	Ⅱ-0	——	——	——
0065	1#	Ⅰ-0	Ⅰ-60	Ⅱ-5W2	——	——	——
A065	1#	Ⅰ-60	Ⅰ-0	Ⅱ-5W2	——	——	——
B065	1#	Ⅰ-30T2	Ⅰ-30T2	Ⅱ-5W2	——	——	——
0069	1#	Ⅰ-60	Ⅰ-4	Ⅱ-5W2	——	——	——
0095	1#	Ⅰ-60	Ⅰ-30T2	Ⅱ-5W2	——	——	——
0120	1#	Ⅰ-60	Ⅰ-60	Ⅱ-0	——	——	——
0125	1#	Ⅰ-60	Ⅰ-60	Ⅱ-5W2	——	——	——
0130	1#	Ⅰ-60	Ⅰ-30T2	Ⅱ-40	——	——	——
0160	1#	Ⅰ-60	Ⅰ-60	Ⅱ-40	——	——	——
0013	2#	Ⅰ-0	Ⅰ-0	Ⅱ-13W2	——	——	——
0046	2#	Ⅰ-11T11	Ⅰ-11T11	Ⅱ-24T4	——	——	——
A056	2#	Ⅰ-11T11	Ⅰ-11T11	Ⅱ-34	——	——	——
A081	2#	Ⅰ-6M6	Ⅰ-11T11	Ⅰ-64T2	——	——	——
0084	2#	Ⅰ-10T10	Ⅰ-10T10	Ⅱ-64T2	——	——	——
A084	2#	Ⅰ-60	Ⅰ-11T11	Ⅰ-13W2	——	——	——
0086	2#	Ⅰ-11T11	Ⅰ-11T11	Ⅱ-64T2	——	——	——
0092	2#	Ⅰ-11T11	Ⅰ-11T11	Ⅱ-70T2	——	——	——
0096	2#	Ⅰ-11T11	Ⅰ-60	Ⅱ-25	——	——	——
0010	2#	Ⅰ-0	Ⅰ-0	Ⅱ-100	——	——	——
0105	2#	Ⅰ-11T11	Ⅰ-60	Ⅱ-34	——	——	——
0112	2#	Ⅰ-6M6	Ⅰ-6M6	Ⅱ-100	——	——	——
0116	2#	Ⅰ-110	Ⅰ-0	Ⅱ-6T6	——	——	——
A120	2#	Ⅰ-10T10	Ⅰ-10T10	Ⅱ-100	——	——	——
B120	2#	Ⅰ-120T2	Ⅰ-0	Ⅱ-0	——	——	——
0127	2#	Ⅰ-121	Ⅰ-0	Ⅰ-6T6	——	——	——
0131	2#	Ⅰ-121	Ⅰ-C4	Ⅱ-6T6	——	——	——
0133	2#	Ⅰ-60	Ⅰ-60	Ⅱ-13W2	——	——	——
0137	2#	Ⅰ-121	Ⅰ-10T10	Ⅱ-6T6	——	——	——
0138	2#	Ⅰ-121	Ⅰ-11T11	Ⅱ-6T6	——	——	——
T141	2#	Ⅰ-120T2	Ⅰ-10T10	Ⅱ-13W2	——	——	——
0143	2#	Ⅰ-10T10	Ⅰ-120T2	Ⅱ-13W2	——	——	——

Code	Shell size	Insulator layout					
		A	B	C	D	E	F
A284	3#	Ⅰ-10T10	Ⅰ-10T10	Ⅱ-100	Ⅰ-120T2	Ⅰ-10T10	Ⅱ-34
0287	3#	Ⅰ-11T11	Ⅰ-11T11	Ⅱ-100	Ⅰ-120T2	Ⅰ-11T11	Ⅱ-34
A295	3#	Ⅰ-150	Ⅰ-60	Ⅱ-25	Ⅰ-60	Ⅰ-11T11	Ⅱ-25
A302	3#	Ⅰ-36G36	Ⅰ-110	Ⅱ-59	Ⅰ-36636	Ⅰ-36G36	Ⅱ-25
A313	3#	Ⅰ-150	Ⅰ-0	Ⅱ-13W2	Ⅰ-150	Ⅰ-0	Ⅱ-0
0319	3#	Ⅰ-150	Ⅰ-60	Ⅱ-25	Ⅰ-60	Ⅰ-11T11	Ⅱ-13W2
A324	3#	Ⅰ-10T10	Ⅰ-10T10	Ⅱ-0	Ⅰ-150	Ⅰ-120T2	Ⅱ-34
0326	3#	Ⅰ-0	Ⅰ-150	Ⅱ-13W2	Ⅰ-0	Ⅰ-150	Ⅱ-13W2
0330	3#	Ⅰ-150	Ⅰ-120T2	Ⅱ-34	Ⅰ-10T10	Ⅰ-10T10	Ⅱ-6T6
0348	3#	Ⅰ-60	Ⅰ-60	Ⅱ-24T4	Ⅰ-60	Ⅰ-110	Ⅱ-34
A348	3#	Ⅰ-150	Ⅰ-11T11	Ⅱ-13W2	Ⅰ-150	Ⅰ-11T11	Ⅱ-13W2
0353	3#	Ⅰ-11T11	Ⅰ-11T11	Ⅱ-25	Ⅰ-150	Ⅰ-150	Ⅱ-6T6
0358	3#	Ⅰ-150	Ⅰ-120T2	Ⅱ-34	Ⅰ-10T10	Ⅰ-10T10	Ⅱ-34
0387	3#	Ⅰ-11T11	Ⅰ-11T11	Ⅱ-6T6	Ⅰ-150	Ⅰ-150	Ⅱ-59
0407	3#	Ⅰ-150	Ⅰ-110	Ⅱ-100	Ⅰ-11T11	Ⅰ-11T11	Ⅱ-25
0426	3#	Ⅰ-11T11	Ⅰ-150	Ⅱ-100	Ⅰ-10T10	Ⅰ-121	Ⅱ-34
0434	3#	Ⅰ-150	Ⅰ-150	Ⅱ-0	Ⅰ-121	Ⅰ-0	Ⅱ-13W2
0437	3#	Ⅰ-150	Ⅰ-150	Ⅱ-6T6	Ⅰ-121	Ⅰ-10T10	Ⅱ-13W2
0444	3#	Ⅰ-150	Ⅰ-121	Ⅱ-13W2	Ⅰ-150	Ⅰ-10T10	Ⅱ-0
0450	3#	Ⅰ-150	Ⅰ-150	Ⅱ-6T6	Ⅰ-121	Ⅰ-10T10	Ⅱ-13W2
0463	3#	Ⅰ-150	Ⅰ-0	Ⅱ-13W2	Ⅰ-150	Ⅰ-150	Ⅱ-0
0492	3#	Ⅰ-11T11	Ⅰ-150	Ⅱ-100	Ⅰ-10T10	Ⅰ-10T10	Ⅱ-34
0494	3#	Ⅰ-121	Ⅰ-120T2	Ⅱ-6T6	Ⅰ-121	Ⅰ-120T2	Ⅱ-6T6
0496	3#	Ⅰ-121	Ⅰ-121	Ⅱ-6T6	Ⅰ-121	Ⅰ-121	Ⅱ-6T6
0510	3#	Ⅰ-121	Ⅰ-121	Ⅱ-13W2	Ⅰ-121	Ⅰ-121	Ⅱ-13W2
0530	3#	Ⅰ-120T2	Ⅰ-120T2	Ⅰ-25	Ⅰ-120T2	Ⅰ-120T2	Ⅱ-25
0537	3#	Ⅰ-150	Ⅰ-150	Ⅱ-100	Ⅰ-121	Ⅰ-10T10	Ⅱ-6T6
0547	3#	Ⅰ-60	Ⅰ-150	Ⅱ-13W9	Ⅰ-150	Ⅰ-150	Ⅱ-94T4
0550	3#	Ⅰ-150	Ⅰ-150	Ⅱ-100	Ⅰ-150	Ⅰ-0	Ⅱ-0
0552	3#	Ⅰ-121	Ⅰ-121	Ⅱ-34	Ⅰ-121	Ⅰ-121	Ⅱ-34
0563	3#	Ⅰ-0	Ⅰ-150	Ⅱ-100	Ⅰ-150	Ⅰ-150	Ⅱ-13W2
0568	3#	Ⅰ-60	Ⅰ-150	Ⅰ-34	Ⅰ-150	Ⅰ-150	Ⅱ-24T4
0579	3#	Ⅰ-150	Ⅰ-150	Ⅱ-64T2	Ⅰ-121	Ⅰ-60	Ⅱ-34
0600	3#	Ⅰ-150	Ⅰ-150	Ⅱ-0	Ⅰ-150	Ⅰ-150	Ⅱ-0
0601	3#	Ⅰ-150	Ⅰ-150	Ⅱ-24T4	Ⅰ-150	Ⅰ-121	Ⅱ-6T6
0608	3#	Ⅰ-120T2	Ⅰ-150	Ⅱ-34	Ⅰ-120T2	Ⅰ-150	Ⅱ-34
0613	3#	Ⅰ-150	Ⅰ-150	Ⅱ-13W2	Ⅰ-150	Ⅰ-150	Ⅱ-0
0615	3#	Ⅰ-150	Ⅰ-60	Ⅱ-100	Ⅰ-150	Ⅰ-150	Ⅱ-25

Code	Shell size	Insulator layout					
		A	B	C	D	E	F
0620	3#	Ⅰ-150	Ⅰ-60	Ⅱ-100	Ⅰ-150	Ⅰ-60	Ⅱ-100
A620	3#	Ⅰ-150	Ⅰ-150	Ⅱ-100	Ⅰ-60	Ⅰ-60	Ⅱ-100
0621	3#	Ⅰ-150	Ⅰ-11T11	Ⅱ-100	Ⅰ-150	Ⅰ-110	Ⅱ-100
0626	3#	Ⅰ-150	Ⅰ-150	Ⅱ-13W2	Ⅰ-150	Ⅰ-150	Ⅱ-13W2
0630	3#	Ⅰ-150	Ⅰ-150	Ⅱ-6T6	Ⅰ-150	Ⅰ-150	Ⅱ-24T4
0632	3#	Ⅰ-150	Ⅰ-11T11	Ⅱ-100	Ⅰ-150	Ⅰ-121	Ⅱ-100
A324	3#	Ⅰ-10T10	Ⅰ-10T10	Ⅱ-0	Ⅰ-150	Ⅰ-120T2	Ⅱ-34
A648	3#	Ⅰ-150	Ⅰ-150	Ⅱ-24T4	Ⅰ-150	Ⅰ-150	Ⅱ-24T4
0695	3#	Ⅰ-150	Ⅰ-150	Ⅱ-24T4	Ⅰ-150	Ⅰ-121	Ⅱ-100
0698	3#	Ⅰ-150	Ⅰ-150	Ⅱ-64T2	Ⅰ-150	Ⅰ-150	Ⅱ-34
0713	3#	Ⅰ-150	Ⅰ-150	Ⅱ-100	Ⅰ-150	Ⅰ-150	Ⅱ-13W2
A713	3#	Ⅰ-150	Ⅰ-150	Ⅱ-13W2	Ⅰ-150	Ⅰ-150	Ⅱ-100
0724	3#	Ⅰ-150	Ⅰ-150	Ⅱ-100	Ⅰ-150	Ⅰ-150	Ⅱ-24T4
0734	3#	Ⅰ-150	Ⅰ-150	Ⅱ-100	Ⅰ-150	Ⅰ-150	Ⅱ-34
0742	3#	Ⅰ-121	Ⅰ-150	Ⅱ-100	Ⅰ-121	Ⅰ-150	Ⅱ-100
0800	3#	Ⅰ-150	Ⅰ-150	Ⅱ-100	Ⅰ-150	Ⅰ-150	Ⅱ-100

RF contact

8# RF contacts can be installed in #8 insert of S6 series product to transmit RF signal.The operating frequency is 0~500MHz for #8RF contact.

Ordering information for standard #8 RF contact

S7 - RF 2 S - 8F# B

Basic series

Connector feature : RF coaxial

Connector type :

Blank - Normal single coaxial contacts

2 - Shielded twisted pair contacts for 1553B Signals

Contact style : P - Pin S - Socket

Contact size : 8#

Contact type : Blank - Crimp

B - PCB soldering (pins only)

S6 series connectors are mainly used in chassis and cabinets.Because there is gap existing between rack and shelf,RF pin and RF socket can not mated in place and the mating face of pin and socket of many contacts are not same,therefore,impedance discontinuity would exist in RF signal transmission channels,VSWR would be increased and reflection loss and transmission loss would be increased.Which causes the equipment is not in good condition.For solving the above problems,coaxial contacts with axial floating,radial floating and sealing are designed.
Besides meeting the requirements of ARINC and MIMIL-DTL-83527B,S7 RF contacts can meet the following requirements:

——Impedance : 50 Ω
——Operating temperature : -65℃~150℃
——The highest frequency : 18GHz
——Insertion loss : no more than 0.3dB
——Applicable to stable phrase and low loss RF cable

Ordering information for floating RF contact

S7 - RF S - 8# - 1801

Basic series
Connector feature : RF coaxial
Connector type : P - Pin S - Socket
Applicable cable code : 086,141,1801,3449,32055
Contact size : 8#

Cable code	Cable P/N	The highest frequency (GHz)
141	SFT-50-3-1,670-141,670-141SXE	18
1801	IW1801	34
3449	CXN3449	18

Differential contact

8# differential contacts can be installed in #8 insert of S6 series product to transmit the differential signal, ARINC429 signal and AFDX signal.

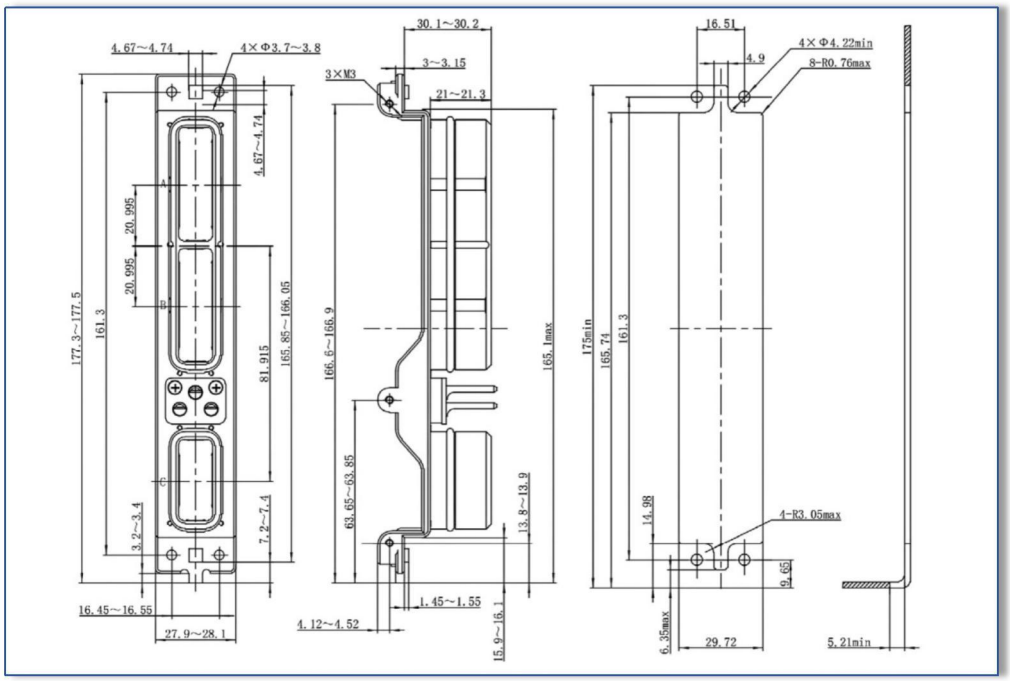
Ordering information

CF 82 / 211 - 03 - B2

Basic series
Contact style : 81/-Pin 82/-Socket
Contact type : 211-a pair of crimped differential signals
411-two pairs of crimped differential signals
231-a pair of PCB differential signals (Only for pin)
431-two pairs of PCB differential signals (Only for pin)
Contact length : -03 denote the length of S6 and S7 contacts
Contact form : B1-Front removal PCB receptacle (Pin Length 3.8mm)
B2-Front removal PCB receptacle (Pin Length 7.3mm)
B3-Front removal PCB receptacle (Pin Length 9.5mm)
B4-Front removal PCB receptacle (Pin Length 12.7mm)
-PCB form limited to S6-2 and S6-3 series receptacles
-Plug without PCB form

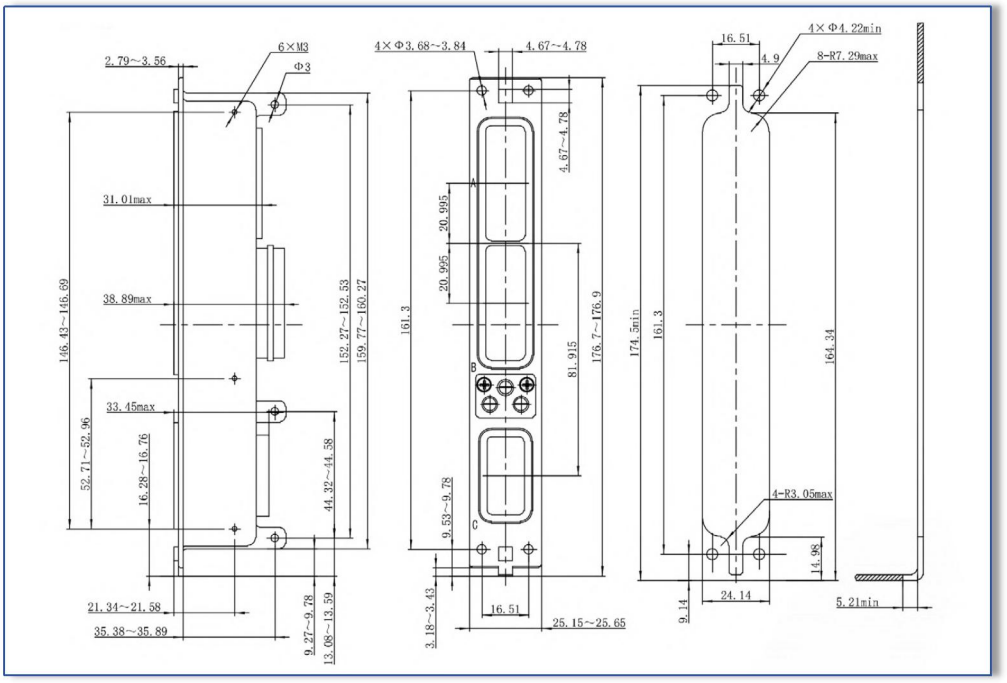
Outline dimension

1#Plug shell



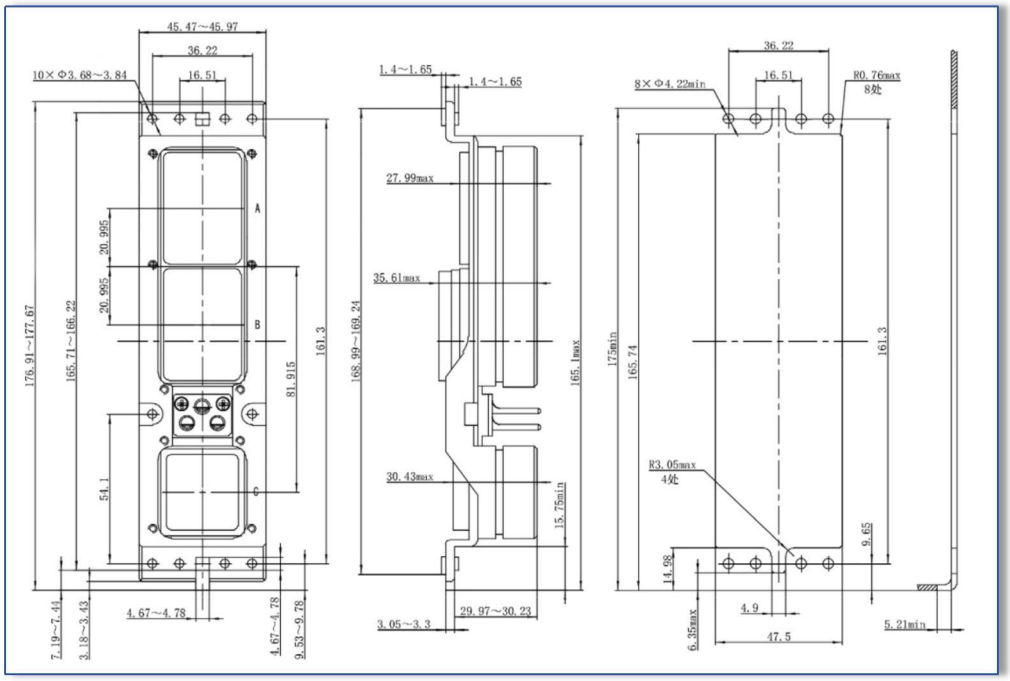
1# Plug shell　　1# Plug panel opening size

1# Receptacle shell



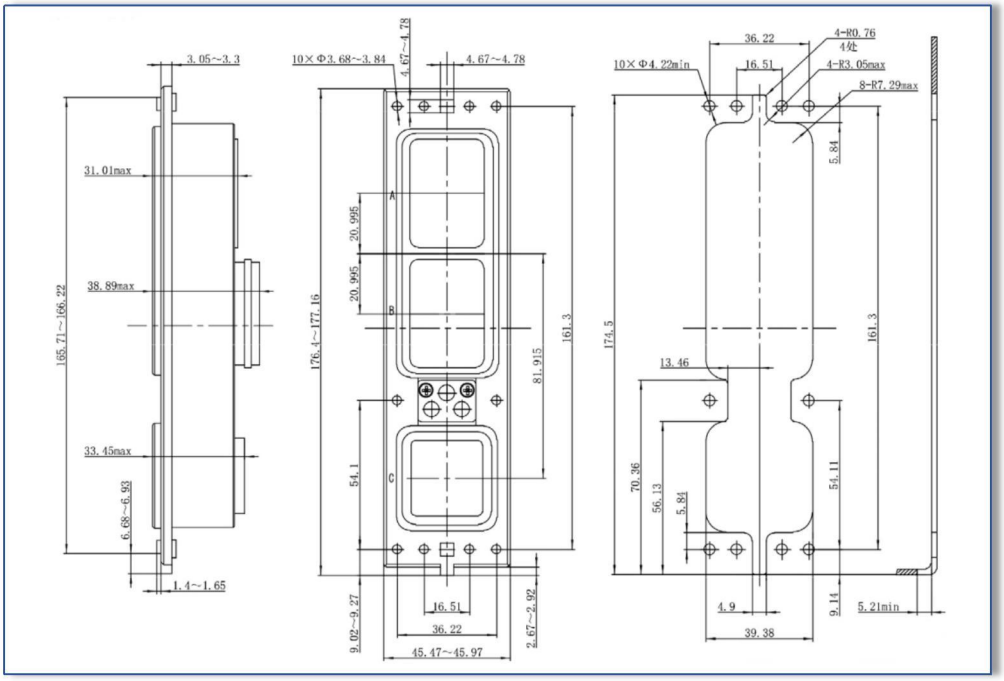
1# Receptacle shell　　1# Receptacle panel opening size

2#Plug shell



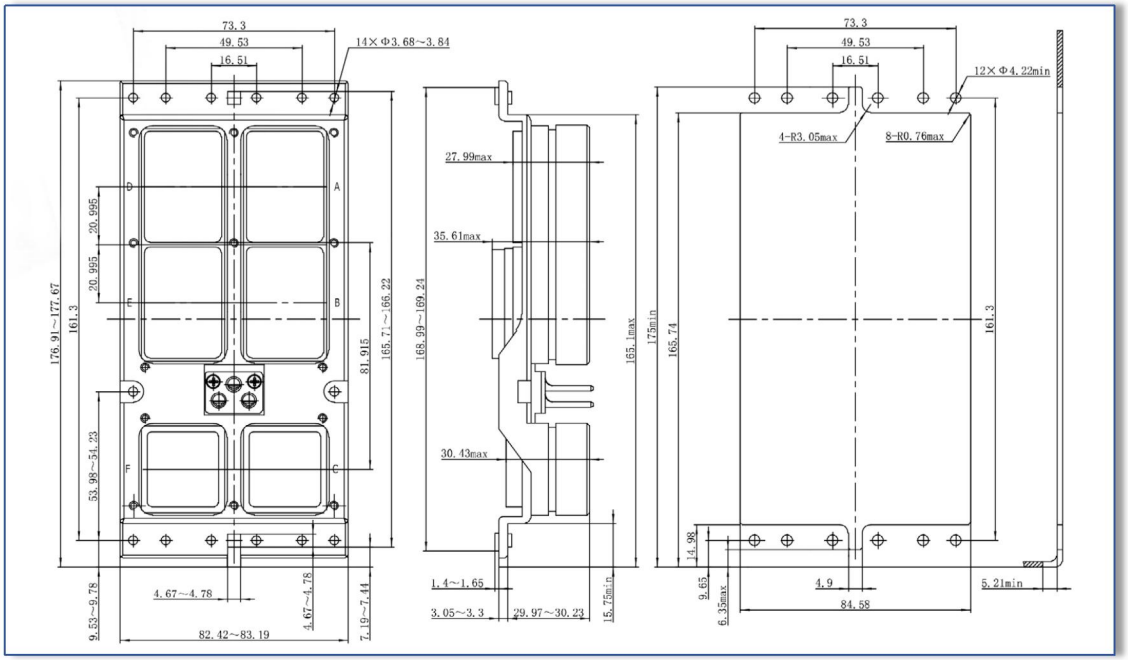
2# Plug shell　　2# Plug panel opening size

2# Receptacle shell



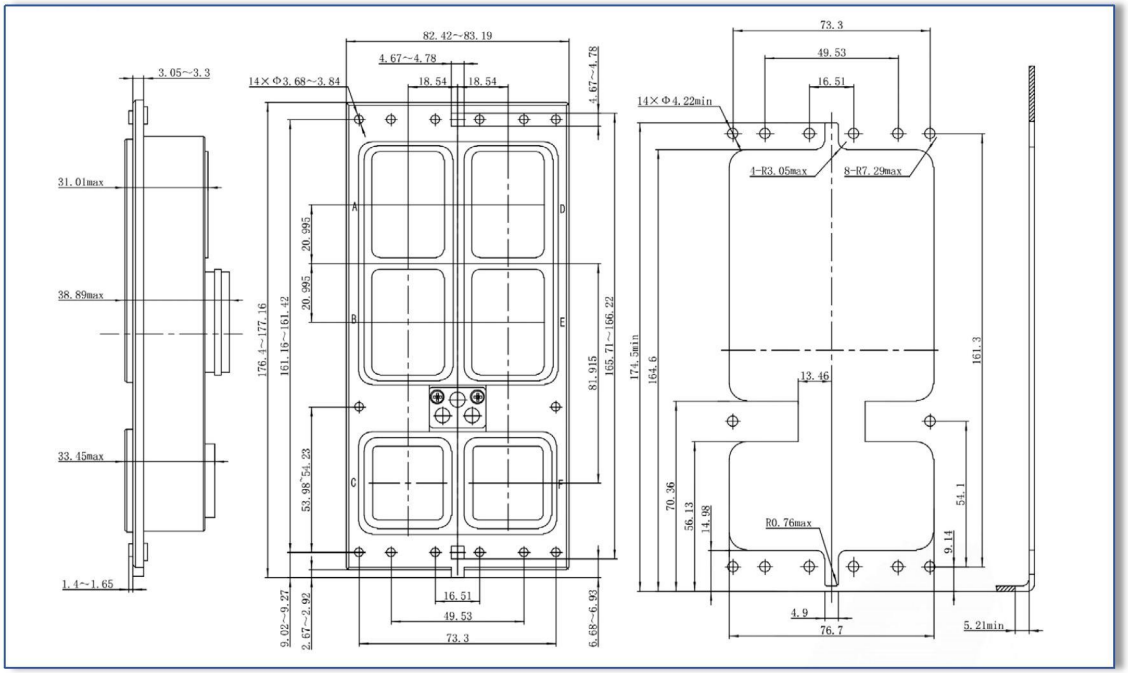
2# Receptacle shell　　2# Receptacle panel opening size

3#Plug shell



3# Plug shell　　3# Plug panel opening size

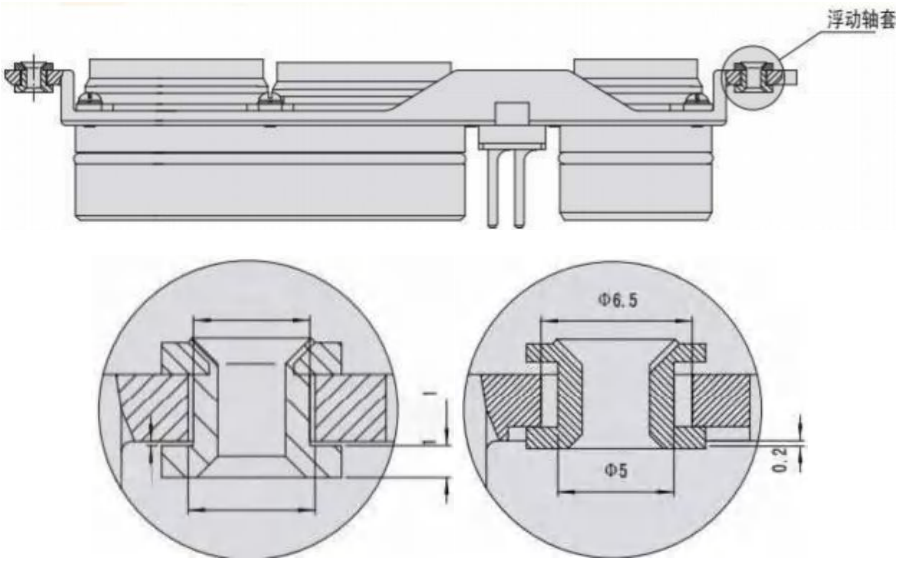
3# Receptacle shell



3# Receptacle shell　　3# Receptacle panel opening size

Float mounting illustration

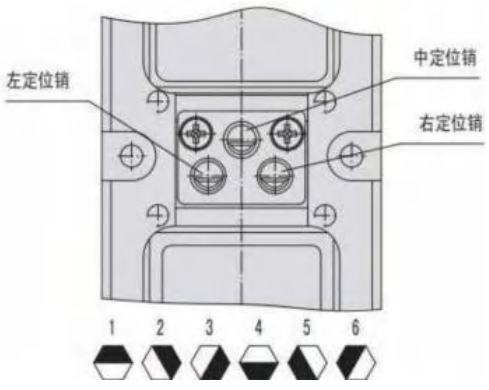
The S6 series floating products are divided into two types , one is a floating product with a floating amount of ±0.25mm,and the other is a large floating product with a floating amount of ±0.75mm.Both are floated by installing bushing on the plug ,which ensures smooth insertion of the installed plug and socket.The figure below shows the floating installation of the S6 series plug housing. Note that when using floating function. (Note: The distance between the two mounting panels of the product with ±0.25mm float should be reduce by 1.5 from the thickness of the floating bushing,that is,the distance between the two panels is 11.4~11.8,and the distance between the two mounting panels of the product with ±0.75mm float is 12.75~13mm.)



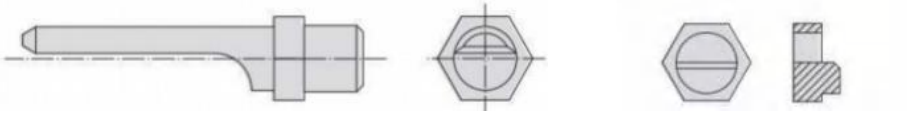
±0.25mm ±0.75mm

Anti mismating mechanism

Connector position leading mechanism



Black area represents key position



Leading pin Leading sleeve

Plug				Receptacle				Plug				Receptacle			
Key code	Left	Middle	Right	Location	Left	Middle	Right	Key code	Left	Middle	Right	Location	Left	Middle	Right
00	—	—	—	00	—	—	—	37	1	2	1	37	4	3	4
01	1	1	1	01	4	4	4	38	2	2	1	38	4	3	3
02	2	1	1	02	4	4	3	39	3	2	1	39	4	3	2
03	3	1	1	03	4	4	2	40	4	2	1	40	4	3	1
04	4	1	1	04	4	4	1	41	5	2	1	41	4	3	6
05	5	1	1	05	4	4	6	42	6	2	1	42	4	3	5
06	6	1	1	06	4	4	5	43	1	2	6	43	5	3	4
07	1	1	6	07	5	4	4	44	2	2	6	44	5	3	3
08	2	1	6	08	5	4	3	45	3	2	6	45	5	3	2
09	3	1	6	09	5	4	2	46	4	2	6	46	5	3	1
10	4	1	6	10	5	4	1	47	5	2	6	47	5	3	6
11	5	1	6	11	5	4	6	48	6	2	6	48	5	3	5
12	6	1	6	12	5	4	5	49	1	2	5	49	6	3	4
13	1	1	5	13	6	4	4	50	2	2	5	50	6	3	3
14	2	1	5	14	6	4	3	51	3	2	5	51	6	3	2
15	3	1	5	15	6	4	2	52	4	2	5	52	6	3	1
16	4	1	5	16	6	4	1	53	5	2	5	53	6	3	6
17	5	1	5	17	6	4	6	54	6	2	5	54	6	3	5
18	6	1	5	18	6	4	5	55	1	2	4	55	1	3	4
19	1	1	4	19	1	4	4	56	2	2	4	56	1	3	3
20	2	1	4	20	1	4	3	57	3	2	4	57	1	3	2
21	3	1	4	21	1	4	2	58	4	2	4	58	1	3	1
22	4	1	4	22	1	4	1	59	5	2	4	59	1	3	6
23	5	1	4	23	1	4	6	60	6	2	4	60	1	3	5
24	6	1	4	24	1	4	5	61	1	2	3	61	2	3	4
25	1	1	3	25	2	4	4	62	2	2	3	62	2	3	3
26	2	1	3	26	2	4	3	63	3	2	3	63	2	3	2
27	3	1	3	27	2	4	2	64	4	2	3	64	2	3	1
28	4	1	3	28	2	4	1	65	5	2	3	65	2	3	6
29	5	1	3	29	2	4	6	66	6	2	3	66	2	3	5
30	6	1	3	30	2	4	5	67	1	2	2	67	3	3	4
31	1	1	2	31	3	4	4	68	2	2	2	68	3	3	3
32	2	1	2	32	3	4	3	69	3	2	2	69	3	3	2
33	3	1	2	33	3	4	2	70	4	2	2	70	3	3	1
34	4	1	2	34	3	4	1	71	5	2	2	71	3	3	6
35	5	1	2	35	3	4	6	72	6	2	2	72	3	3	5
36	6	1	2	36	3	4	5	73	1	3	1	73	4	2	4

Plug				Receptacle				Plug				Receptacle			
Key code	Left	Middle	Right	Location	Left	Middle	Right	Key code	Left	Middle	Right	Location	Left	Middle	Right
74	2	3	1	74	4	2	3	74	3	3	5	74	6	2	2
75	3	3	1	75	4	2	2	75	4	3	5	75	6	2	1
76	4	3	1	76	4	2	1	76	5	3	5	76	6	2	6
77	5	3	1	77	4	2	6	77	6	3	5	77	6	2	5
78	6	3	1	78	4	2	5	78	1	3	4	78	1	2	4
79	1	3	6	79	5	2	4	79	2	3	4	79	1	2	3
80	2	3	6	80	5	2	3	80	3	3	4	80	1	2	2
81	3	3	6	81	5	2	2	81	4	3	4	81	1	2	1
82	4	3	6	82	5	2	1	82	5	3	4	82	1	2	6
83	5	3	6	83	5	2	6	83	6	3	4	83	1	2	5
84	6	3	6	84	5	2	5	84	1	3	3	84	2	2	4
85	1	3	5	85	6	2	4	85	2	3	3	85	2	2	3
86	2	3	5	86	6	2	3	86	3	3	3	86	2	2	2