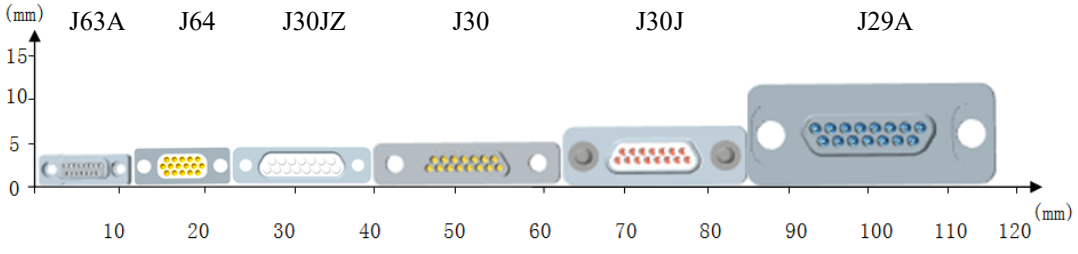
CONTENTS

Micro-rectangular Cable Network (DL-308)	According to the user's requirements, the single-branch cable, multi-branch cable, large three-dimensional cable network, rigid-flex PCB and other cable assemblies have been produced. The micro-rectangular cable assemblies have superior performance indexes and can adapt to the special requirements of various complex natural environments and mechanical environments, such as low temperature, high temperature, lead shielding, and 360° shielding, etc.	243
Y34M Series Micro-circular Electrical Connector	With reference to MIL-C-83513, the Y34M series micro-circular electrical connector adopts stranded elastic pins (twist pins), with two locking modes of thread locking and push-pull locking, and seven specifications of 4, 7, 11, 19, 37, 55 and 85 cores. It is small in size, light in weight, easy to use and reliable in performance, and is suitable for military electronic systems and circuit connections between various electrical and electronic equipment.	245
Fuzz Button	It is specially wound by a single metal wire, with elastic contact and free of welding, which is suitable for interconnection applications of ultra-small space. It has small size, light weight, long life, and reliable contact. It can transmit high-frequency, high-speed and other signals, and is widely used in aerospace, military fighters, phased radar arrays, satellites, missiles and other military fields.	253

Disclaimer

Note: This product manual is only for reference before model selection and contract signing, and cannot be used as the basis for product design and acceptance by the user. Please refer to the actual consultation, contract or relevant technical specifications. In case of any discrepancy between this manual and the previous manual, this manual should prevail.

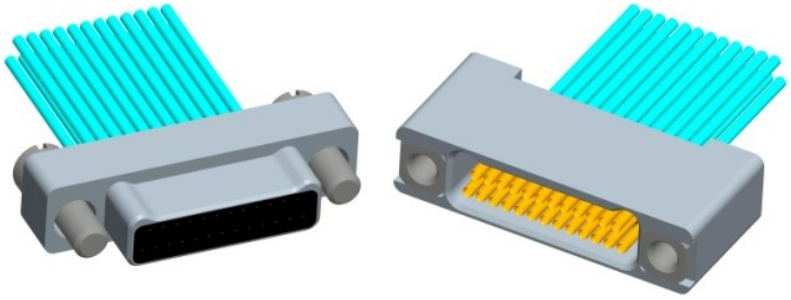
Size comparison chart of various types of products, taking the 15-core (J64 is 16-core) plug as an example



One Yuan Coin

J63A Ultramicro-rectangular Electrical Connector

Product Overview



- Comply with MIL-DTL-32139 General Specification for Ultramicro-rectangular Electrical Connectors with Housing Positioning
- Adopt stranded elastic ultramicro pins (commonly known as twist pins)
- Contact spacing is 0.635 mm
- There are nine types of spectrum specifications of 9, 15, 21, 25, 31, 37, 51, 65 and 69
- The plug is installed with the pin and the socket is installed with the Jack
- The conventionally mated connectors at the free end and the fixed end are screwed and butted by the locking screw and the connecting nut
- Tail termination includes crimping wire, PCB, surface-mount, crimping connector and other forms
- The sectional area of the suitable crimping wire is 0.035 mm^2, and the wire gauge number is AWG32
- It is suitable for military systems and other electronic equipment systems with lightweight and miniaturization requirements such as aerospace, aviation and weapons
- Execute enterprise standard: Q/Ag 1.262 Detailed Specification for J63A Series Rectangular Electrical Connectors

Product Performance

Mechanical Properties

Housing	Aluminum alloy
Plating	Nickel plating
Insulator	Thermoplastic
Contact	Gold-plated copper alloy, crimping type, PCB type, surface-mount type
Mechanical life	200 plugging and unplugging cycles

Vibration	Sinusoidal vibration	Frequency 10 ~ 2000 Hz, Acceleration 196 m/s^2
	Random vibration	Power spectral density 0.4 g^2/Hz Total acceleration RMS 23.1G
Impact	Peak sawtooth wave after 6 ms, peak acceleration 980 m/s^2	

Electrical Performance

Contact rated current 1A
Contact resistance ≤ 21 mΩ
Insulation resistance (under normal conditions) ≥ 5000 MΩ
Under wet conditions, ≥ 1 MΩ

Withstand voltage (under normal atmospheric conditions) 250 Vrms
Under wet conditions, 100 Vrms
Under low pressure (4.39 kPa), 100 Vrms

Environmental Performance

Temperature range	-55 ℃ ~ +125 ℃
Salt spray	48h
Relative humidity	98% at 40 ℃

Liquid impregnation Hydraulic fluid, diluent, refrigerant
Working height ≤ 21336 m

Model Designation

Basic Serial Number	J63A	-	2	1	2	-	025	-	16	1	-	JC	(Additional Information)

Number of contact rows	2 - Two rows of contacts
Type	1 - Straight plug (crimping/straddling type) 2 - Straight socket/straight vertically-mounted socket (crimping/straddling type) 3 - Horizontally installed crimping plug 4 - Horizontally installed crimping socket 5 - Crimping plug with a tail cover 6 - Crimping socket with a tail cover/Vertically-mounted crimping socket with a tail cover 7 - Horizontally installed crimping plug with a tail cover 8 - Horizontally installed crimping socket with a tail cover 9 - Vertically-mounted crimping plug 0 - Vertically-mounted crimping plug with a tail cover A - Vertical surface-mount plug B - Vertical surface-mount socket C - Horizontal surface-mount plug D - Horizontal surface-mount socket E - Bent PCB-type plug F - Bent PCB-type socket G - In-line PCB-type plug H - in-line PCB-type socket J - Crimping conjoined type U - Floating-mounted crimping plug with a guide post W - Flange-mounted crimping socket with a guide hole
Housing plating	2 - Nickel plating
Number of contacts	009; 015; 021; 025; 031; 037; 051; 065; 069 (The number of contacts is represented by 3 digits, and the corresponding spectrum chart is detailed in “Contact Arrangement”)
Termination form	12 - Vertical/horizontal/straddling surface-mount type pin; 22 - Vertical/horizontal/straddling surface-mount type Jack 13 - In-line PCB-type pin with 2.77 mm lead length; 23 - In-line PCB-type Jack with 2.77 mm lead length 14 - In-line PCB-type pin with 3.56 mm lead length; 24 - In-line PCB-type Jack with 3.56 mm lead length 15 - In-line PCB-type pin with 4.37 mm lead length; 25 - In-line PCB-type Jack with 4.37 mm lead length 16 - Crimping pin; 26 - Crimping Jack 32 - Bent PCB-type pin with 2.77 mm lead length; 43 - Bent PCB-type Jack with 2.77 mm lead length 33 - Bent PCB-type pin with 3.56 mm lead length; 44 - Bent PCB-type Jack with 3.56 mm lead length 34 - Bent PCB-type pin with 4.37 mm lead length; 45 - Bent PCB-type Jack with 4.37 mm lead length PP - The plug is correspondingly connected with the plug; PS - The plug is correspondingly connected with the socket; SS - The socket is correspondingly connected with the socket
Contact plating	1 - Gold plating
Locking parts	JC - Slotted locking screw; JC1 - Hexagon socket locking screw; TH-connecting nut; TH1 - Connecting nut with welding installation function; DZ - guide post; DK - guide hole; SH-guide hole with welding installation function; NH - nut-mounted guide hole; 00 - No locking part.
Additional Information	Crimping connectors should be provided with additional information on the wire, such as wire color, length, specification, etc., as shown in Table 1

Table 1 Wire naming rules

No.	Classification feature	Classification content	Mark code
1	Wire color	R: red; W: white; M: purple; G: green; A: gray; U: blue; Y: yellow; B: black; N: orange;	R, W, M, G, A, U, Y, B, N
2	L	Connector with wires	L
3	Wire length	200, wire length value in mm	200
4	Wire specification	A: 0.035 mm^2 AF-1, etc.	A, etc.
5	Additional requirements	No indication: no additional requirements 1: Wire jacket nylon sleeve 2: Wire jacket anti-wave sleeve, etc.	1, 2, etc.

Model naming example: J63A-212-069-161-JC (RL200A): J63A crimping type 69-core plug, two rows of contacts, chemical nickel plating on the housing, crimping pins on the contacts, gold plating on the surface, and slotted locking screws on the locking parts. (Additional information: 200 mm red AF-1 wires with a sectional area of 0.035 mm^2 should be crimped to each hole.)

Classification Table of J63A Series

Table 2 Classification of J63A Series

Connector Type	Basic Identification	Structural Features
Crimping type	Plug J63A-212-XXX-161-JC(JC1)	With locking screw, crimping pin
	Socket J63A-222-XXX-261-JC(JC1)	With locking screw, crimping Jack
	Socket J63A-222-XXX-261-TH	With connecting nut, crimping Jack, vertical mounting
	Plug J63A-292-XXX-161-TH	With connecting nut, crimping pin, vertical mounting
	Plug J63A-232-XXX-161-TH	With connecting nut, crimping pin, horizontal mounting
	Socket J63A-242-XXX-261-TH	With connecting nut, crimping Jack, horizontal mounting
	Crimping conjoined type J63A-2J2-XXX-PS1	The plug is connected with the socket
	Crimping conjoined type J63A-2J2-XXX-PP1	The plug is connected with the plug
	Crimping conjoined type J63A-2J2-XXX-SS1	The socket is connected with the socket
	Plug J63A-2U2-XXX-161-00	No locking part, crimping pin, floating-mounted with a guide post
	Socket J63A-2W2-XXX-261-00	No locking part, crimping Jack, flange-mounted with a guide hole
	Socket J63A-222-XXX-261-NH	Guide hole with nut mounting, crimping Jack, vertical mounting
	Plug J63A-252-XXX-161-JC(JC1)	With a shielding tail cover, compared with J63A-212-XXX-161-JC(JC1) products
	Socket J63A-262-XXX-261-JC(JC1)	With a shielding tail cover, compared with J63A-222-XXX-261-JC(JC1) product
	Socket J63A-262-XXX-261-TH	With a shielding tail cover, compared with J63A-222-XXX-261-TH products
	Plug J63A-202-XXX-161-TH	With a shielding tail cover, compared with J63A-292-XXX-161-TH product
	Plug J63A-272-XXX-161-TH	With a shielding tail cover, compared with J63A-232-XXX-161-TH product
	Socket J63A-282-XXX-261-TH	With a shielding tail cover, compared with J63A-242-XXX-261-TH product
Vertical surface-mount type	Plug J63A-2A2-XXX-121-TH	With connecting nut, vertical surface-mount type pin, vertical mounting
	Plug J63A-2A2-XXX-121-DZ	The connecting nut is replaced by the guide post, compared with J63A-2A2-XXX-121-TH products
	Socket J63A-2B2-XXX-221-TH	With connecting nut, vertical surface-mount type Jack, vertical mounting
	Socket J63A-2B2-XXX-221-NH	The connecting nut is replaced by the nut-mounted guide hole, compared with J63A-2B2-XXX-221-TH products
	Socket J63A-2B2-XXX-221-TH1	With welding connecting nut, vertical surface-mount Jack, vertical welding mount
	Socket J63A-2B2-XXX-221-SH	The locking part is replaced by the welding guide hole, compared with J63A-2B2-XXX-221-TH1 products
	Plug J63A-2C2-XXX-121-TH	With connecting nut, horizontal surface-mount pin, horizontal mounting

Horizontal surface-mount type	Socket J63A-2D2-XXX-221-TH	With connecting nut, horizontal surface-mount Jack, horizontal mounting
Bent PCB type	Plug J63A-2E2-XXX-32(33)(34)1-TH	With connecting nut, bent PCB pin, horizontal mounting
	Plug J63A-2E2-XXX-32(33)(34)1-DZ	The connecting nut is replaced by the guide post, compared with J63A-2E2-XXX-32(33)(34)-TH products
	Plug J63A-2E2-XXX-32(33)(34)1-JC(JC1)	With locking screw, bent PCB pin
	Socket J63A-2F2-XXX-43(44)(45)1-TH	With connecting nut, bent PCB Jack, horizontal mounting
	Socket J63A-2F2-XXX-43(44)(45)1-DK	The connecting nut is replaced by the guide hole, compared with J63A-2F2-XXX-43(44)(45)-TH products
In-line PCB type	Plug J63A-2G2-XXX-13(14)(15)1-TH	With connecting nut, in-line PCB pin, vertical mounting
	Plug J63A-2G2-XXX-13(14)(15)1-DZ	The connecting nut is replaced by the guide post, compared with J63A-2G2-XXX-13(14)(15)1-TH products
	Socket J63A-2H2-XXX-23(24)(25)1-TH	With connecting nut, in-line PCB Jack, vertical mounting
	Socket J63A-2H2-XXX-23(24)(25)1-DK	The connecting nut is replaced by the guide hole, compared with J63A-2H2-XXX-23(24)(25)1-TH products
Straddling type	Plug J63A-212-XXX-121-JC(JC1)	With locking screw, straddling type surface-mount pin
	Socket J63A-222-XXX-221-TH	With connecting nut, straddling type surface-mount Jack

Instructions for User Selection

J63A series products are screwed by threads, and the process of plugging and unplugging should be gentle, without impact on the product, which is conducive to protecting the product and peripheral components. Therefore, in general, when the mating connector is selected, one end shall be provided with connecting nuts (TH), and the other end shall be provided with locking screws (JC). In addition, the following matters should be known when selecting J63A products:

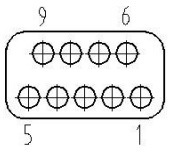
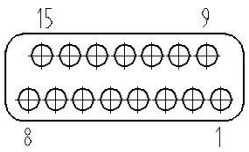
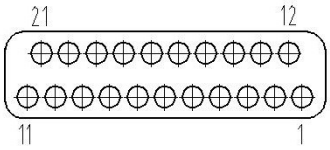
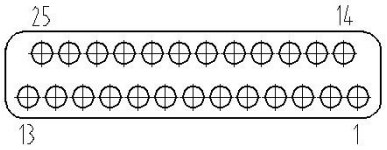
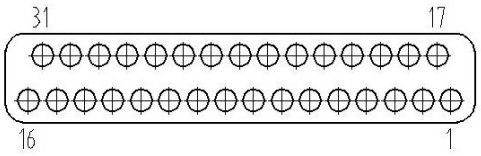
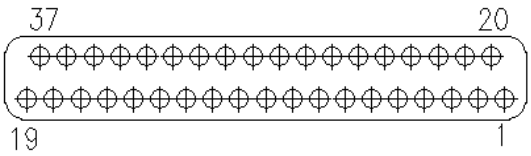
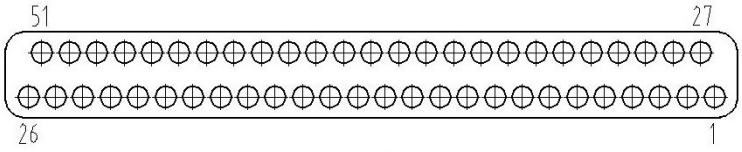
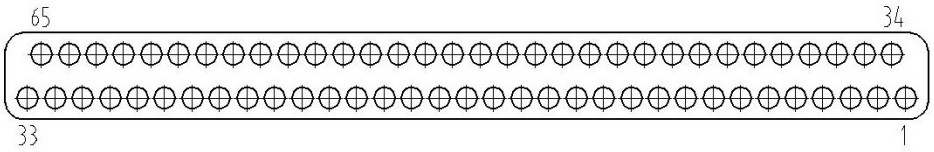
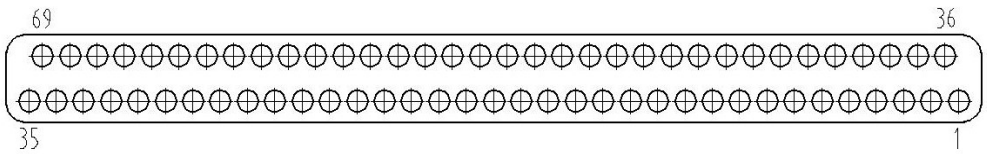
1. Crimping connectors are delivered with wires, and the user shall confirm the specification, color and length of the wires when selecting them. See Table 1 for the naming rules of the wires;

2. The tail cover can only be used for crimping connectors and cannot be disassembled. It is mainly used with the wire treatment method with shielding requirements;

3. When the plug is connected with the socket, it is necessary to alternately screw the locking screws at both ends while inserting, and it is not allowed to insert forcefully without screwing the locking screws, so as not to damage the product;

4. The default locking part mating of the crimping conjoined type is: the plug is provided with locking screws, the socket is provided with connecting nuts, and the serial numbers of the contacts are in one-to-one correspondence. The models of both ends of the connector shall be identified according to the order mark. If J63A-2J2-025-PS1 is ordered, the plug and socket models should be identified as J63A-2J2-025-PS1. If other forms of conjoined products are ordered, please contact our technical staff to clarify the product model.

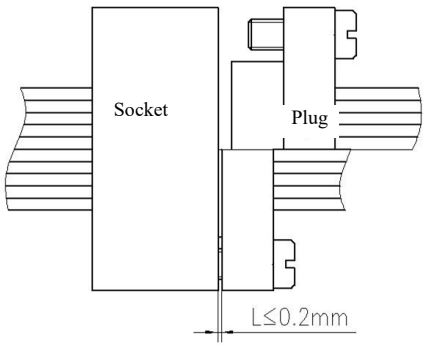
J63A Series Contact Arrangement (View of Pin-mounted Insulator Insertion Surface)

9 cores		15 cores	
21 cores		25 cores	
31 cores		37 cores	
51 cores			
65 cores			
69 cores			

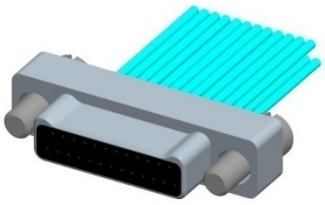
Overall and Installation Dimensions

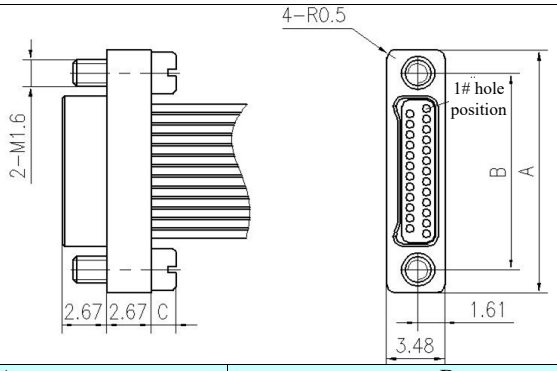
[Insertion Dimension of Plug and Socket]

When the electrical connector is completely inserted, the clearance between the plug flange face and the end face of the socket housing shall not be greater than 0.2 mm.



[J63A-212-XXX-161-JC(JC1) crimping plug with locking screws]



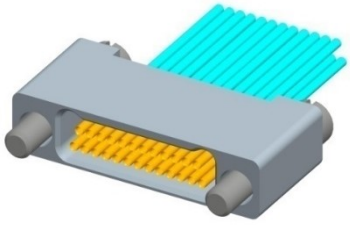


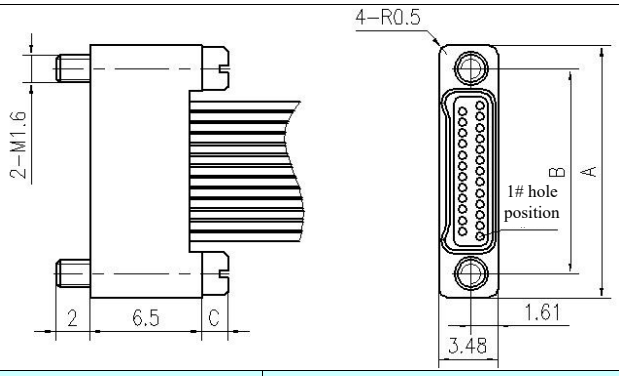
Number of cores	A	B
9	9.63	6.86
15	11.53	8.76
21	13.44	10.67
25	14.71	11.94
31	16.61	13.84
37	18.52	15.75
51	22.96	20.19
65	27.41	24.64
69	28.68	25.91

Suitable for the free-end connector, not mounted, and butted with the socket with connecting nuts;

Locking parts include: JC - Slotted locking screw, C = 1.5 mm; JC1 hexagon socket locking screw, C = 2.1 mm.

[J63A-222-XXX-261-JC(JC1) crimping socket with locking screws]



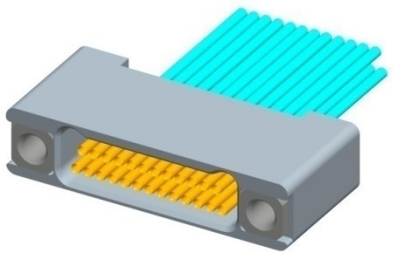


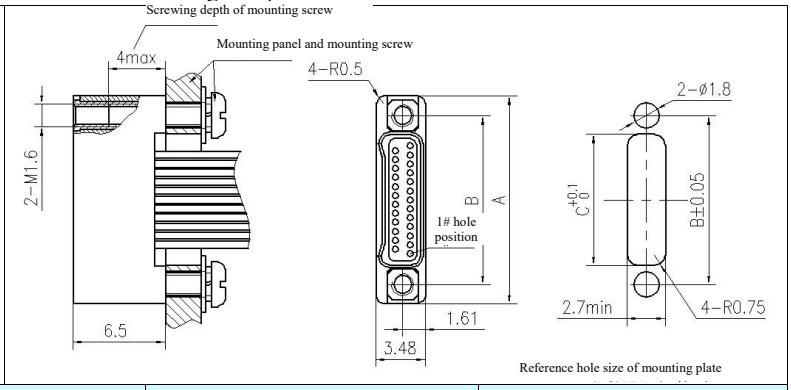
Number of cores	A	B
9	9.63	6.86
15	11.53	8.76
21	13.44	10.67
25	14.71	11.94
31	16.61	13.84
37	18.52	15.75
51	22.96	20.19
65	27.41	24.64
69	28.68	25.91

Suitable for the free-end connector, not mounted, and butted with the plug with connecting nuts;

Locking parts include: JC slotted locking screw, C = 1.5 mm; JC1 hexagon socket locking screw, C = 2.1 mm.

[J63A-222-XXX-261-TH vertically-mounted crimping socket with connecting nuts]

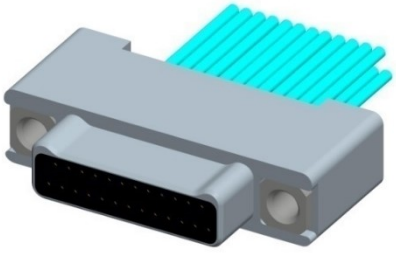


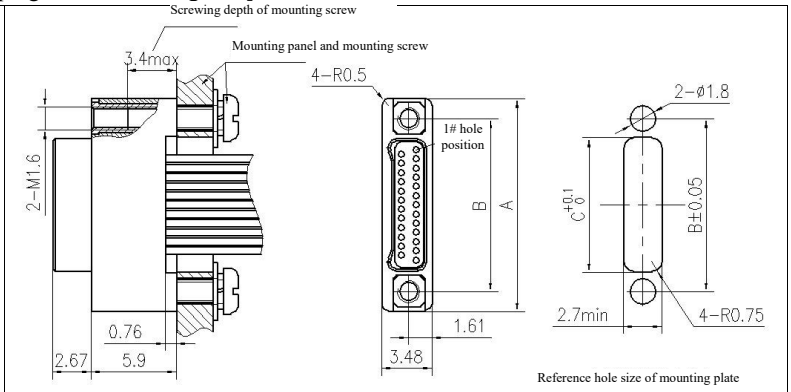


Number of cores	A	B	C
9	9.63	6.86	4.2
15	11.53	8.76	6.1
21	13.44	10.67	8
25	14.71	11.94	9.3
31	16.61	13.84	11.2
37	18.52	15.75	13.1
51	22.96	20.19	17.55
65	27.41	24.64	22
69	28.68	25.91	23.25

Suitable for the fixed-end connector, vertically mounted, and butted with the plug with locking screws.

[J63A-292-XXX-161-TH vertically-mounted crimping plug with connecting nuts]

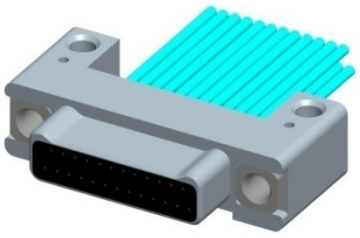


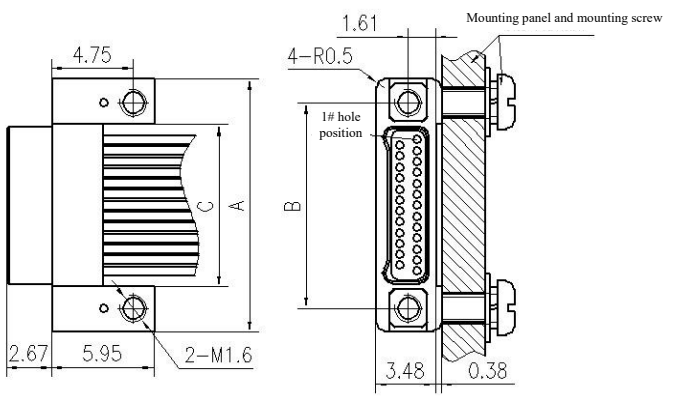


Number of cores	A	B	C
9	9.63	6.86	4.2
15	11.53	8.76	6.1
21	13.44	10.67	8
25	14.71	11.94	9.3
31	16.61	13.84	11.2
37	18.52	15.75	13.1
51	22.96	20.19	17.55
65	27.41	24.64	22
69	28.68	25.91	23.25

Suitable for the fixed-end connector, vertically mounted, and butted with the socket with locking screws.

[J63A-232-XXX-161-TH horizontally-mounted crimping plug with connecting nuts]

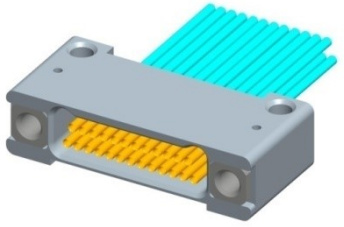


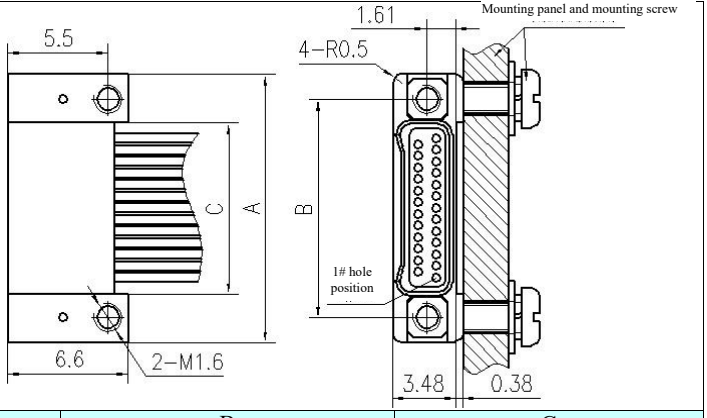


Number of cores	A	B	C
9	9.63	6.86	4.31
15	11.53	8.76	6.22
21	13.44	10.67	8.13
25	14.71	11.94	9.4
31	16.61	13.84	11.3
37	18.52	15.75	13.21
51	22.96	20.19	17.65
65	27.41	24.64	22.1
69	28.68	25.91	23.37

Suitable for the fixed-end connector, with the long-row end of the contact horizontally mounted against the mounting plate and butted with the socket with locking screws.

[J63A-242-XXX-261-TH horizontally-mounted crimping socket with connecting nuts]

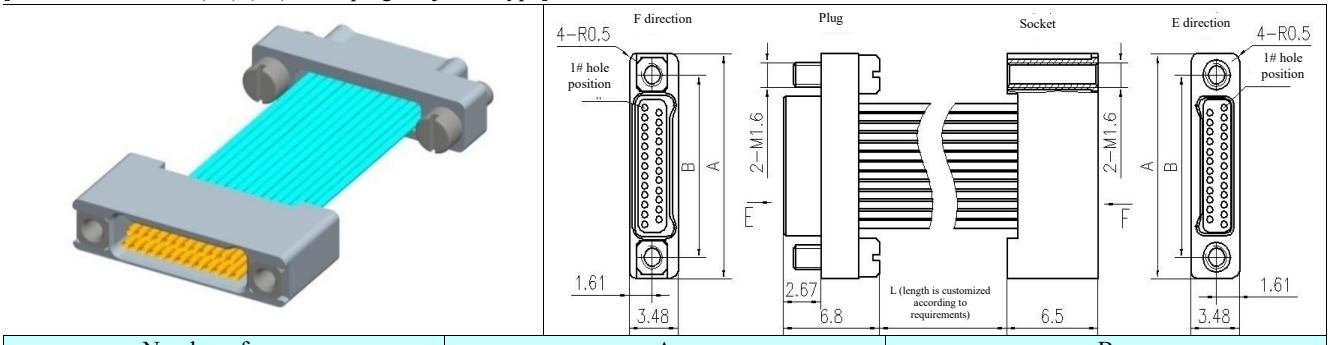




Number of cores	A	B	C
9	9.63	6.86	4.31
15	11.53	8.76	6.22
21	13.44	10.67	8.13
25	14.71	11.94	9.4
31	16.61	13.84	11.3
37	18.52	15.75	13.21
51	22.96	20.19	17.65
65	27.41	24.64	22.1
69	28.68	25.91	23.37

Suitable for the fixed-end connector, with the long-row end of the contact horizontally mounted against the mounting plate and butted with the plug with locking screws.

[J63A-2J2-XXX-PS(PP) (SS)1 crimping conjoined type]



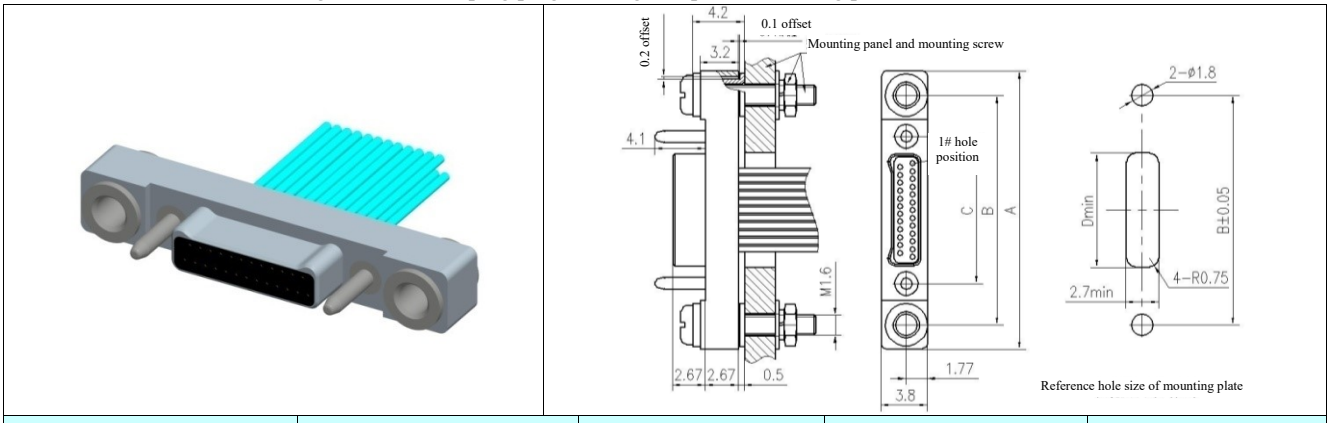
Number of cores	A	B
9	9.63	6.86
15	11.53	8.76
21	13.44	10.67
25	14.71	11.94
31	16.61	13.84
37	18.52	15.75
51	22.96	20.19
65	27.41	24.64
69	28.68	25.91

Conjoined type: PP plug is connected with the plug; PS plug is connected with the socket; SS socket is connected with the socket;

Default form of locking parts: plug with JC locking screws and socket with TH connecting nuts;

The contact numbers of the conjoined connector are in one-to-one correspondence.

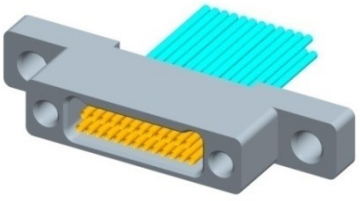
[J63A-2U2-XXX-161-00 floating-mounted crimping plug with a guide post, no locking part]

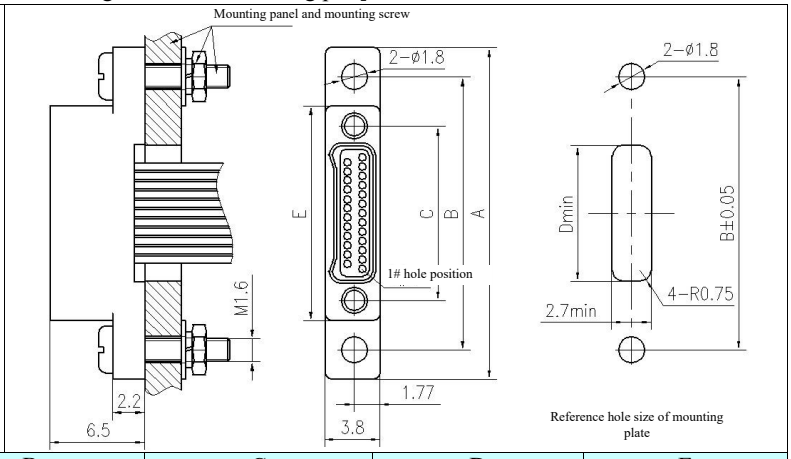


Number of cores	A	B	C	D
9	17.6	13.6	6.86	4.2
15	19.5	15.5	8.76	6.1
21	21.4	17.4	10.67	8
25	22.7	18.7	11.94	9.3
31	24.6	20.6	13.84	11.2
37	26.5	22.5	15.75	13.1
51	30.9	26.9	20.19	17.6
65	35.4	31.4	24.64	22
69	36.7	32.7	25.91	23.3

Suitable for the blind-insertion connector, floating-mounted with a guide post, and butted with the socket with a guide hole.

[J63A-2W2-XXX-261-00 flange-mounted crimping socket with a guide hole, no locking part]

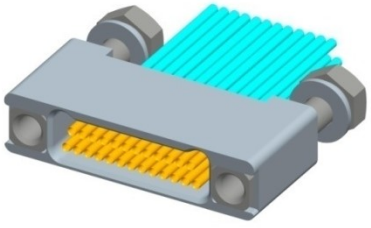


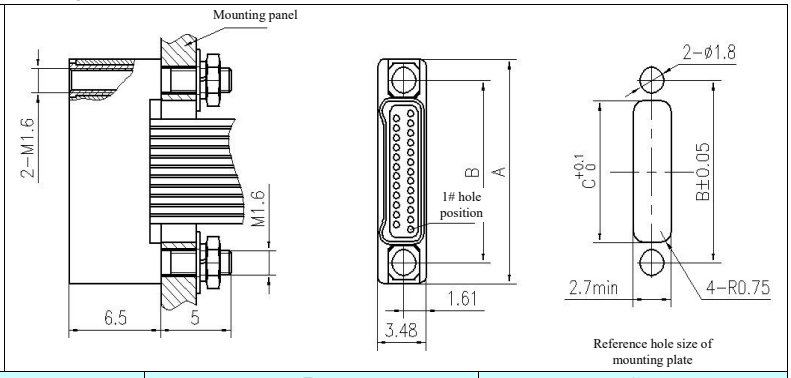


Number of cores	A	B	C	D	E
9	17.6	13.6	6.86	4.2	9.63
15	19.5	15.5	8.76	6.1	11.53
21	21.4	17.4	10.67	8	13.44
25	22.7	18.7	11.94	9.3	14.71
31	24.6	20.6	13.84	11.2	16.61
37	26.5	22.5	15.75	13.1	18.52
51	30.9	26.9	20.19	17.6	22.96
65	35.4	31.4	24.64	22	27.41
69	36.7	32.7	25.91	23.3	28.68

Suitable for the fixed-end connector, flange-mounted with a guide hole, and butted with the plug with a guide post.

[J63A-222-XXX-261-NH nut-mounted crimping socket with a guide hole]

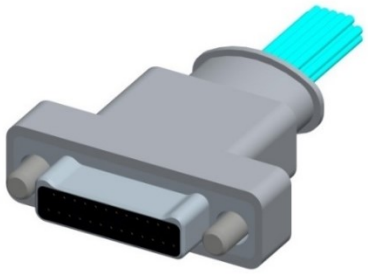


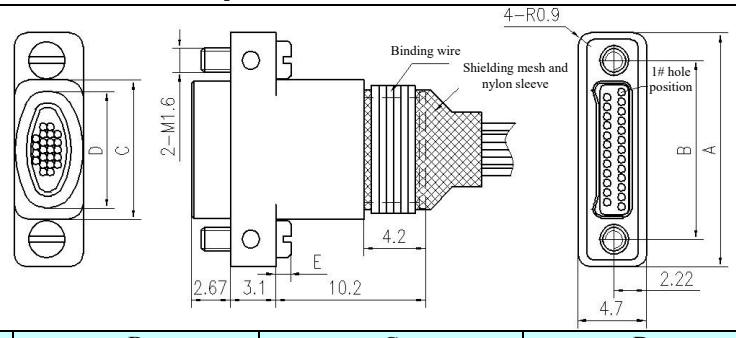


Number of cores	A	B	C
9	9.63	6.86	4.31
15	11.53	8.76	6.22
21	13.44	10.67	8.13
25	14.71	11.94	9.4
31	16.61	13.84	11.3
37	18.52	15.75	13.21
51	22.96	20.19	17.65
65	27.41	24.64	22.1
69	28.68	25.91	23.37

Suitable for the fixed-end connector, nut-mounted with a guide hole, and butted with the plug with a guide post.

[J63A-252-XXX-161-JC(JC1) crimping plug with locking screws and a tail cover]





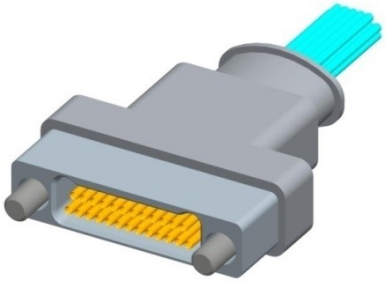
Number of cores	A	B	C	D
9	10.5	6.86	4.2	3.7
15	12.4	8.76	6.1	5
21	14.3	10.67	8	6.6
25	15.6	11.94	9.3	7.8
31	17.5	13.84	11.2	9.4
37	19.4	15.75	13.1	11.2
51	23.8	20.19	17.55	15.7
65	28.3	24.64	22	20.1
69	29.5	25.91	23.25	21.4

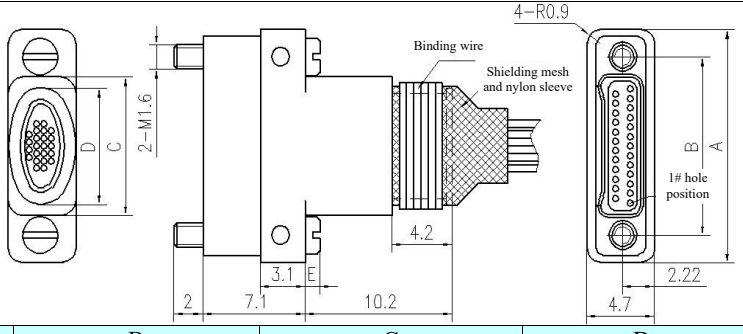
Suitable for the free-end connector, not mounted, and butted with the socket with connecting nuts;

Locking parts include: JC - Slotted locking screw, E = 1 mm; JC1 hexagon socket locking screw, E = 1.6 mm;

Integrated tail cover, non-detachable.

[J63A-262-XXX-261-JC(JC1) crimping socket with locking screws and a tail cover]





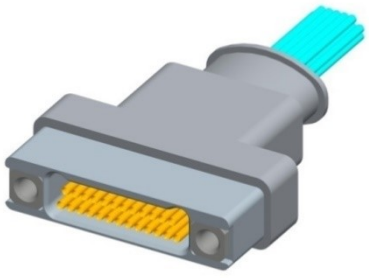
Number of cores	A	B	C	D
9	10.5	6.86	4.2	3.7
15	12.4	8.76	6.1	5
21	14.3	10.67	8	6.6
25	15.6	11.94	9.3	7.8
31	17.5	13.84	11.2	9.4
37	19.4	15.75	13.1	11.2
51	23.8	20.19	17.55	15.7
65	28.3	24.64	22	20.1
69	29.5	25.91	23.25	21.4

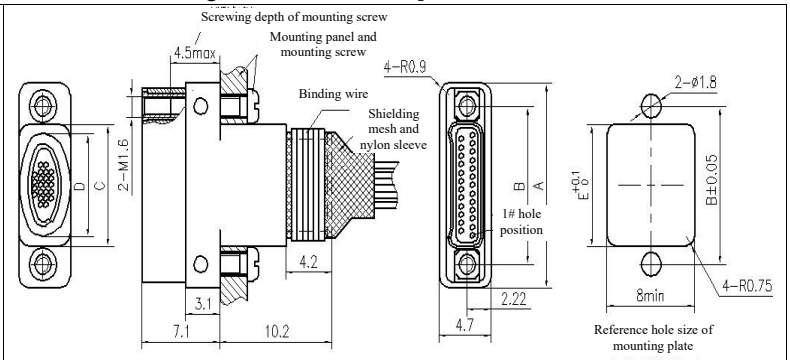
Suitable for the free-end connector, not mounted, and butted with the plug with connecting nuts;

Locking parts include: JC slotted locking screw, E = 1 mm; JC1 hexagon socket locking screw, E = 1.6 mm;

Integrated tail cover, non-detachable.

[J63A-262-XXX-261-TH vertically-mounted crimping socket with connecting nuts and a tail cover]



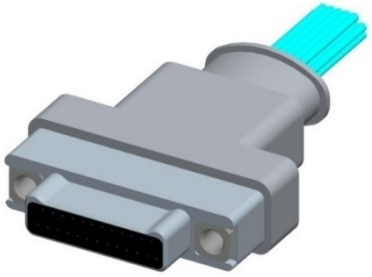


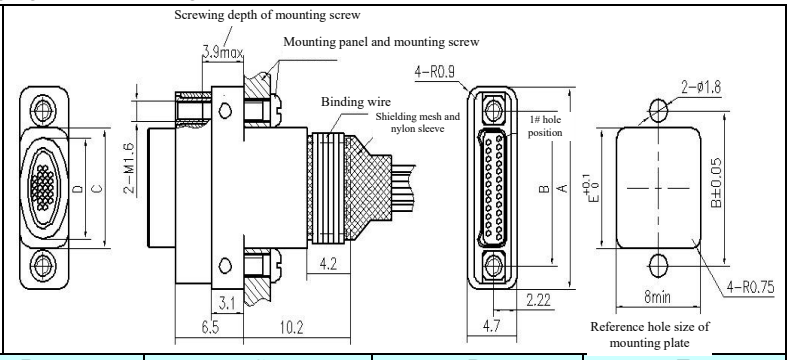
Number of cores	A	B	C	D	E
9	10.5	6.86	4.2	3.7	4.3
15	12.4	8.76	6.1	5	6.2
21	14.3	10.67	8	6.6	8.1
25	15.6	11.94	9.3	7.8	9.4
31	17.5	13.84	11.2	9.4	11.3
37	19.4	15.75	13.1	11.2	13.2
51	23.8	20.19	17.6	15.7	17.65
65	28.3	24.64	22	20.1	22.1
69	29.5	25.91	23.3	21.4	23.35

Suitable for the fixed-end connector, vertically mounted, and butted with the plug with locking screws;

Integrated tail cover, non-detachable.

[J63A-202-XXX-161-TH vertically-mounted crimping plug with connecting nuts and a tail cover]



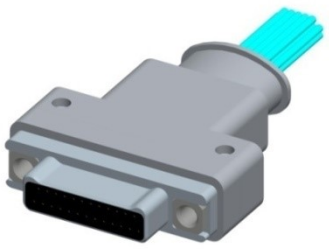


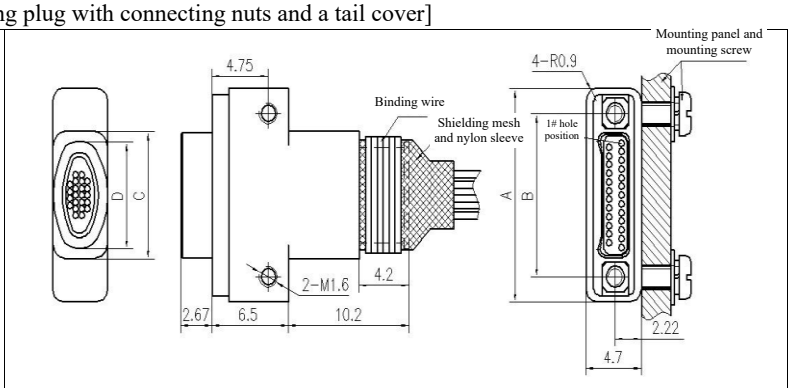
Number of cores	A	B	C	D	E
9	10.5	6.86	4.2	3.7	4.3
15	12.4	8.76	6.1	5	6.2
21	14.3	10.67	8	6.6	8.1
25	15.6	11.94	9.3	7.8	9.4
31	17.5	13.84	11.2	9.4	11.3
37	19.4	15.75	13.1	11.2	13.2
51	23.8	20.19	17.6	15.7	17.65
65	28.3	24.64	22	20.1	22.1
69	29.5	25.91	23.3	21.4	23.35

Suitable for the fixed-end connector, vertically mounted, and butted with the socket with locking screws;

Integrated tail cover, non-detachable.

[J63A-272-XXX-161-TH horizontally-mounted crimping plug with connecting nuts and a tail cover]



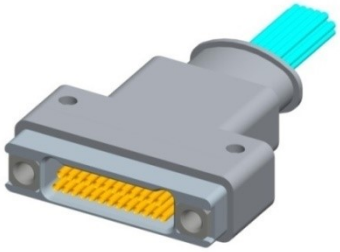


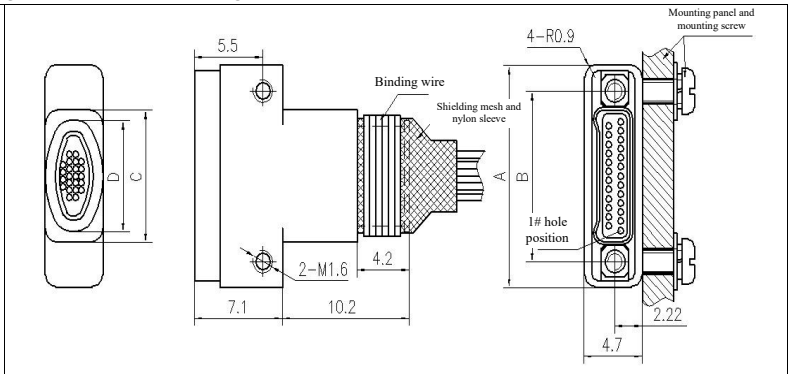
Number of cores	A	B	C	D
9	10.5	6.86	4.2	3.7
15	12.4	8.76	6.1	5
21	14.3	10.67	8	6.6
25	15.6	11.94	9.3	7.8
31	17.5	13.84	11.2	9.4
37	19.4	15.75	13.1	11.2
51	23.8	20.19	17.55	15.7
65	28.3	24.64	22	20.1
69	29.5	25.91	23.25	21.4

Suitable for the fixed-end connector, with the long-row end of the contact horizontally mounted against the mounting plate and butted with the socket with locking screws;

Integrated tail cover, non-detachable.

[J63A-282-XXX-261-TH horizontally-mounted crimping socket with connecting nuts and a tail cover]



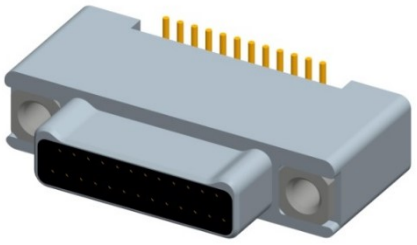


Number of cores	A	B	C	D
9	10.5	6.86	4.2	3.7
15	12.4	8.76	6.1	5
21	14.3	10.67	8	6.6
25	15.6	11.94	9.3	7.8
31	17.5	13.84	11.2	9.4
37	19.4	15.75	13.1	11.2
51	23.8	20.19	17.55	15.7
65	28.3	24.64	22	20.1
69	29.5	25.91	23.25	21.4

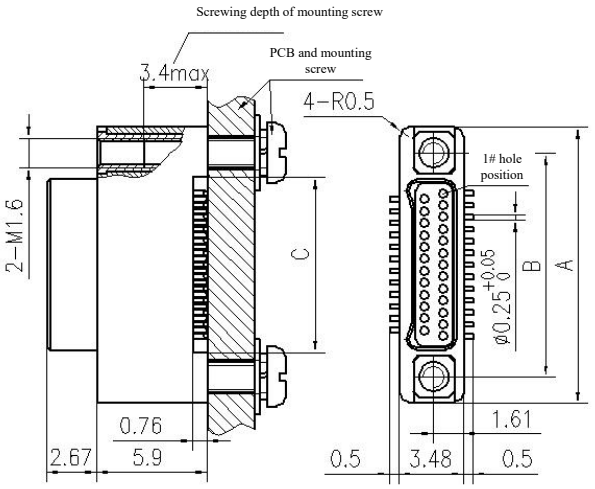
Suitable for the fixed-end connector, with the long-row end of the contact horizontally installed against the mounting plate and butted with the plug with locking screws;

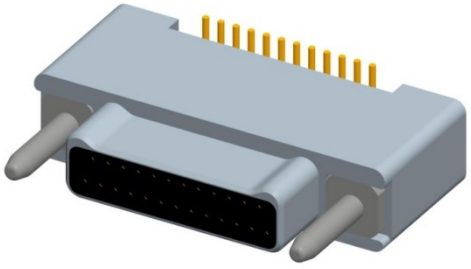
Integrated tail cover, non-detachable.

[J63A-2A2-XXX-121-TH(DZ) vertically-mounted surface-mount plug]

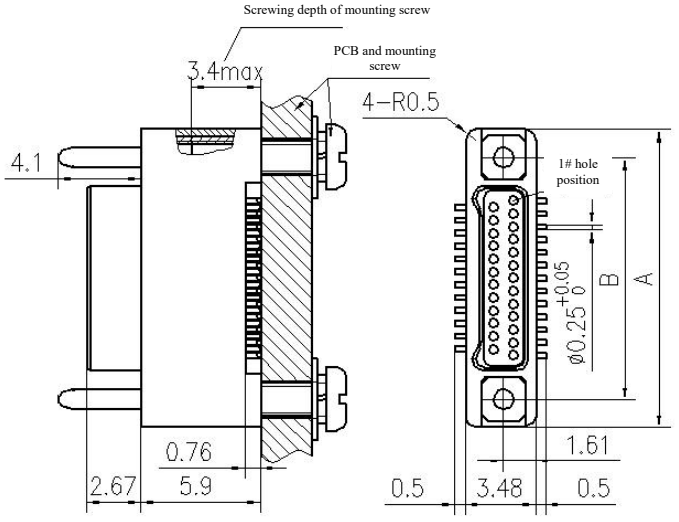


J63A-2A2-XXX-121-TH





J63A-2A2-XXX-121-DZ



Number of cores	A	B	C
9	9.63	6.86	4.31
15	11.53	8.76	6.22
21	13.44	10.67	8.13
25	14.71	11.94	9.4
31	16.61	13.84	11.3
37	18.52	15.75	13.21
51	22.96	20.19	17.65
65	27.41	24.64	22.1
69	28.68	25.91	23.37

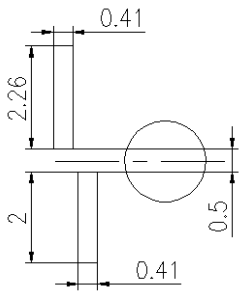
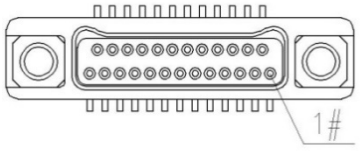
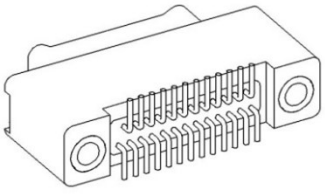
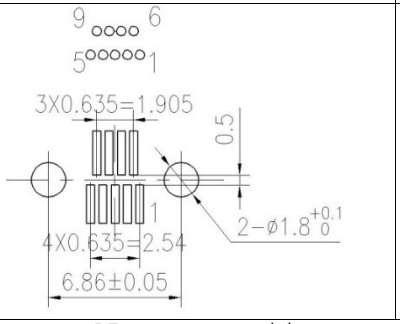
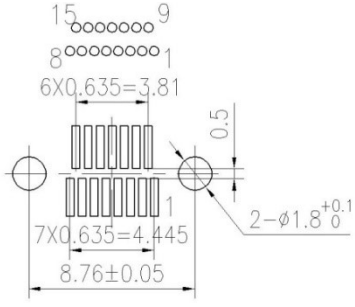
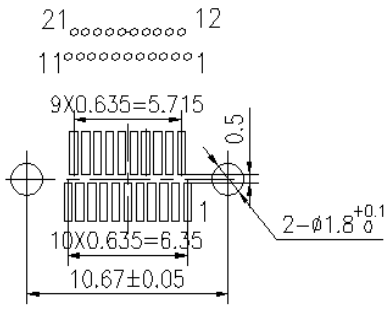
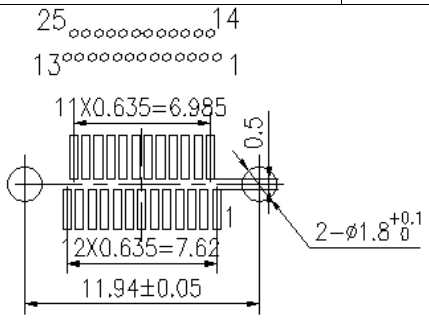
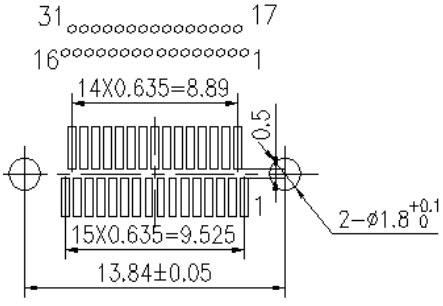
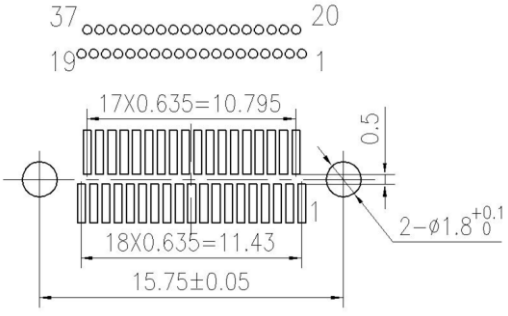
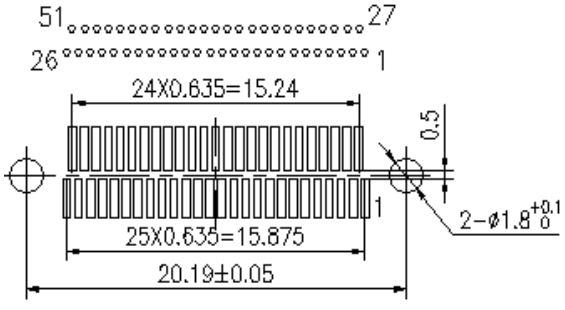
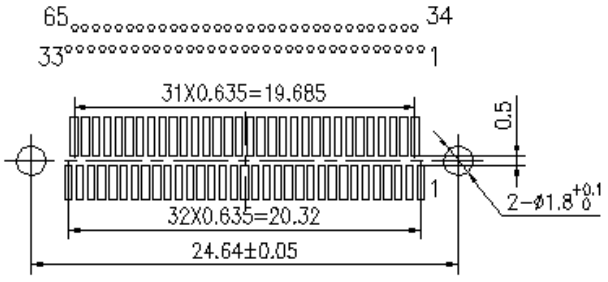
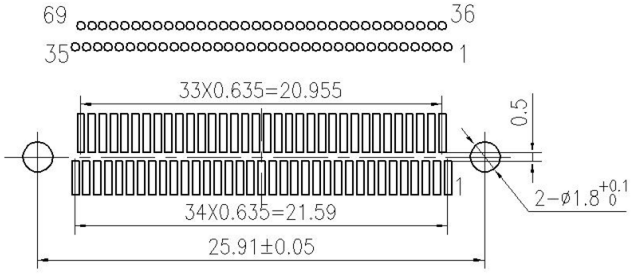
Suitable for vertically-mounted connector. J63A-2A2-XXX-121-TH is butted with the socket with locking screws, and J63A-2A2-XXX-121-DZ is butted with the socket with a guide hole;

Locking parts include: TH connecting nut;

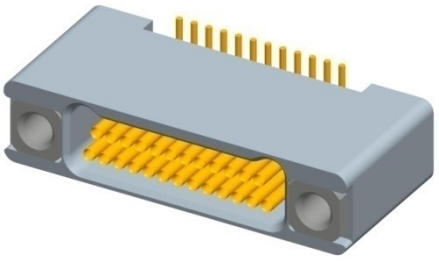
DZ guide post;

Use SMT welding technology;

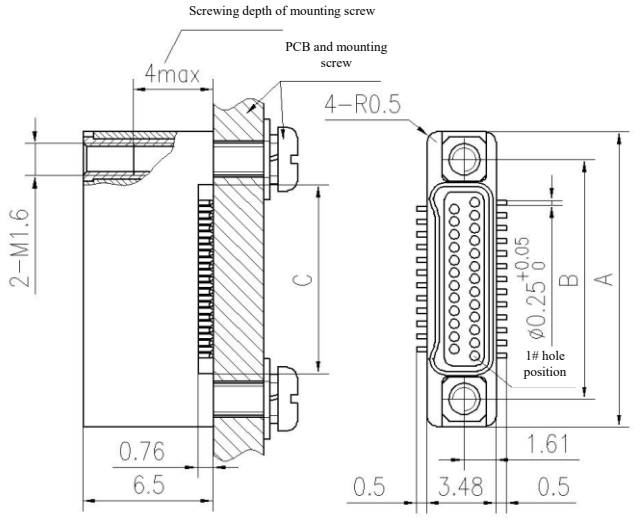
Welding leads are easy to deform, so pay attention to protection.

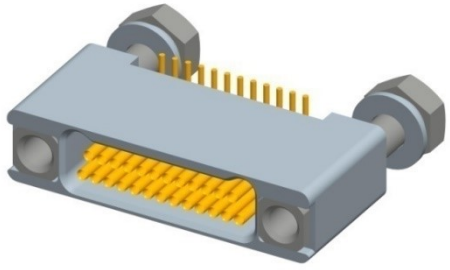
PCB Package Dimensions (References)		
		
		
		
		
		

[J63A-2B2-XXX-221-TH(NH) vertically-mounted surface-mount socket]

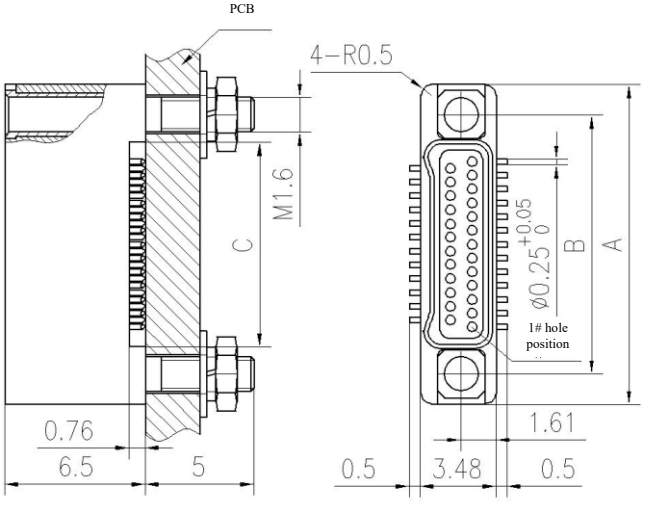


J63A-2B2-XXX-221-TH





J63A-2B2-XXX-221-NH



Number of cores	A	B	C
9	9.63	6.86	4.31
15	11.53	8.76	6.22
21	13.44	10.67	8.13
25	14.71	11.94	9.4
31	16.61	13.84	11.3
37	18.52	15.75	13.21
51	22.96	20.19	17.65
65	27.41	24.64	22.1
69	28.68	25.91	23.37

Suitable for vertically-mounted connector. J63A-2B2-XXX-221-TH is butted with the plug with locking screws, and J63A-2B2-XXX-221-NH is butted with the plug with a guide post;

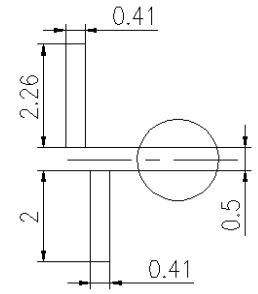
Locking parts include: TH connecting nut;

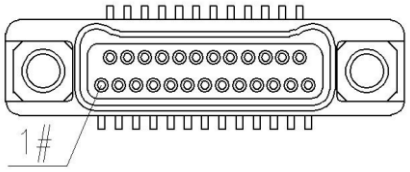
NH nut-mounting guide hole;

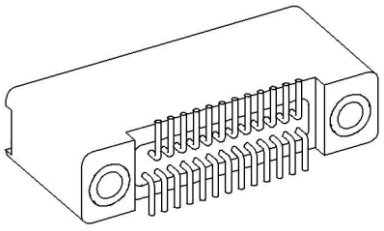
Use SMT welding technology;

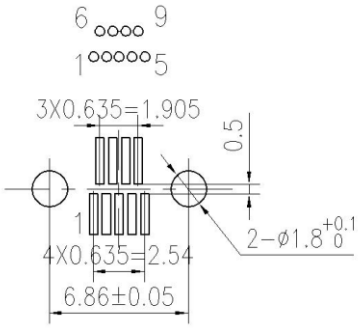
Welding leads are easy to deform, so pay attention to protection.

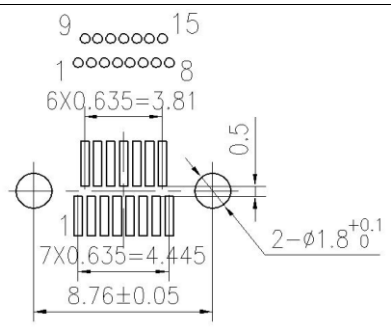
PCB Package Dimensions (References)

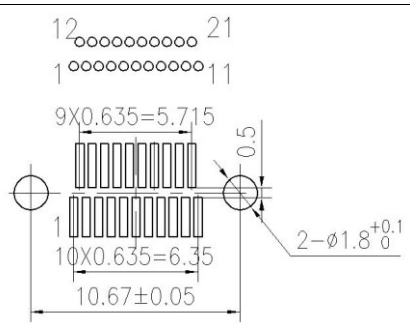


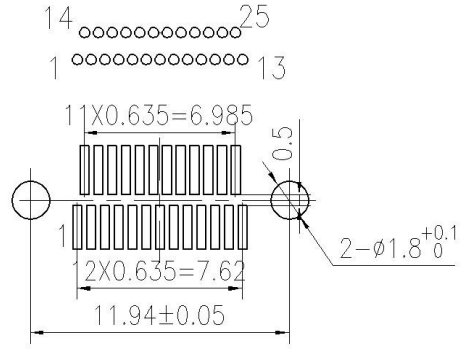


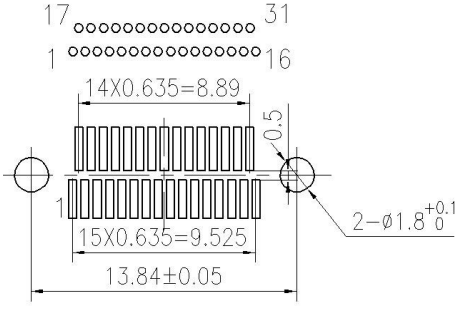


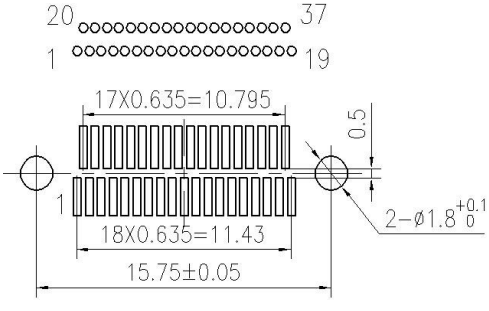


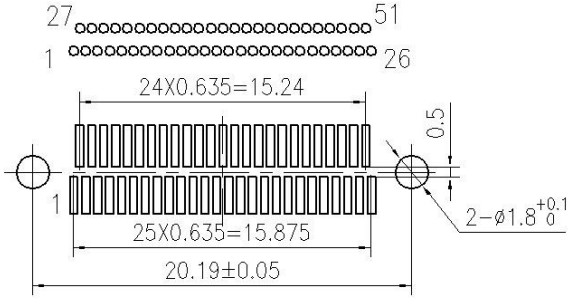


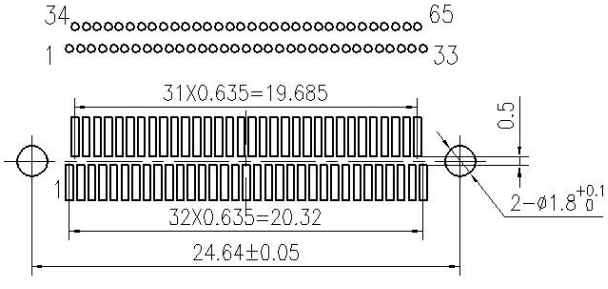


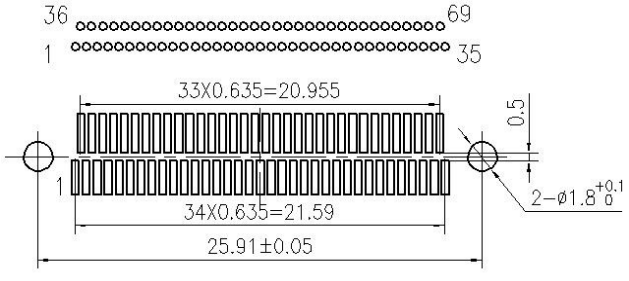




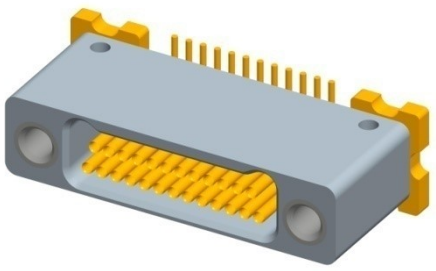




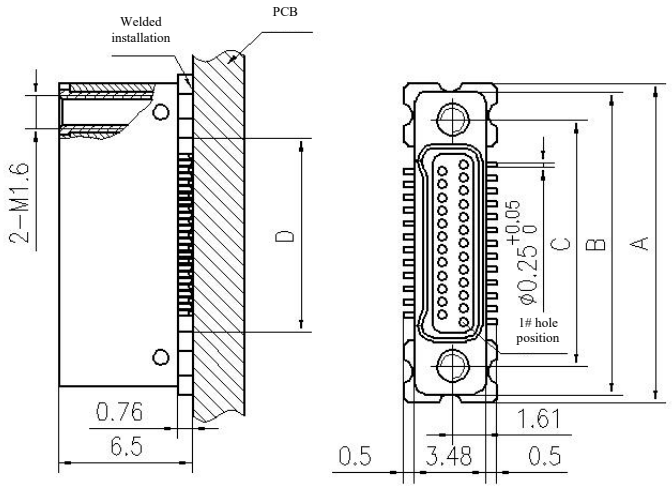


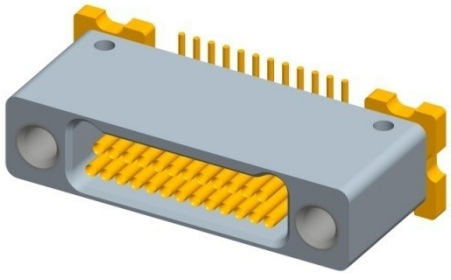


[J63A-2B2-XXX-221-TH1(SH) welding-mounted surface-mount socket]

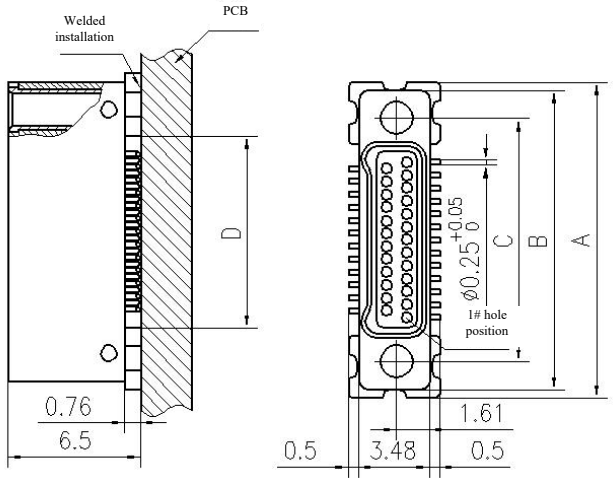


J63A-2B2-XXX-221-TH1





J63A-2B2-XXX-221-SH



Number of cores	A	B	C	D
9	10.43	9.63	6.86	4.31
15	12.33	11.53	8.76	6.22
21	14.24	13.44	10.67	8.13
25	15.51	14.71	11.94	9.4
31	17.41	16.61	13.84	11.3
37	19.32	18.52	15.75	13.21
51	23.76	22.96	20.19	17.65
65	28.21	27.41	24.64	22.1
69	29.48	28.68	25.91	23.37

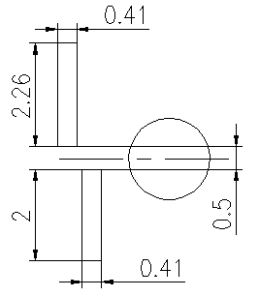
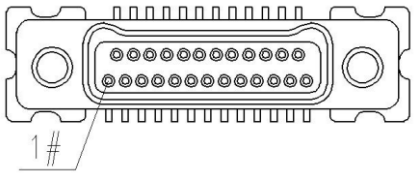
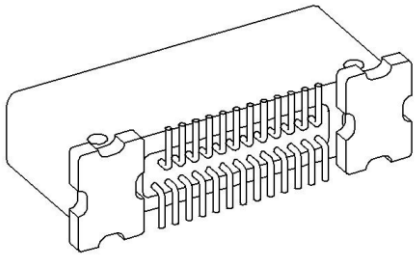
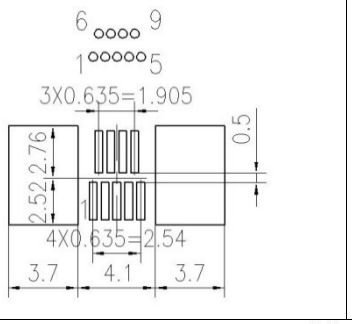
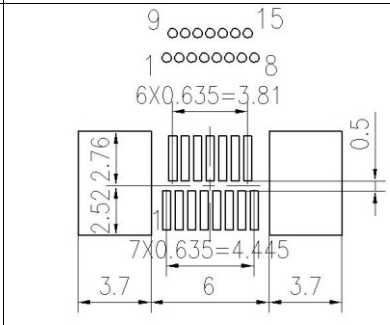
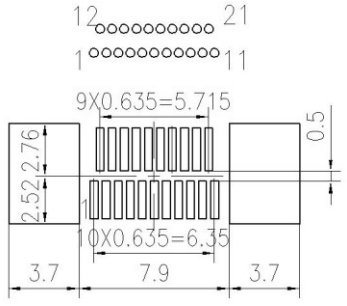
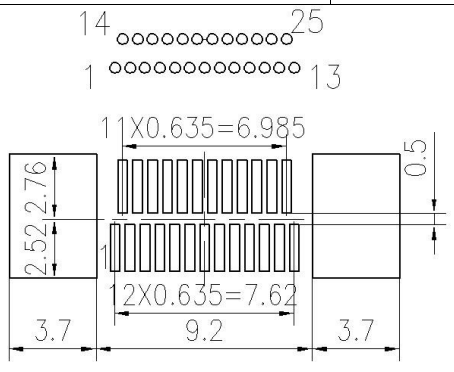
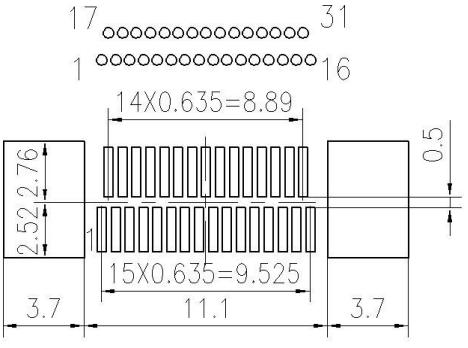
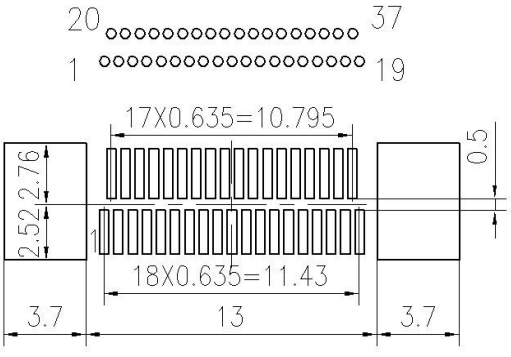
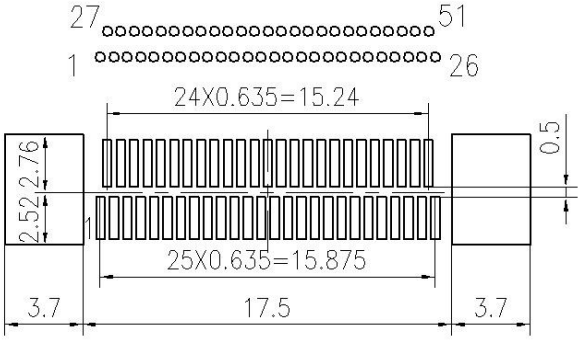
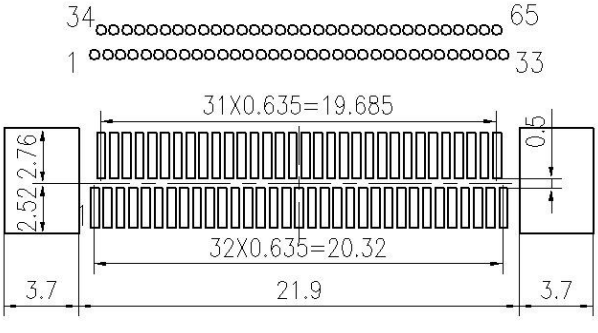
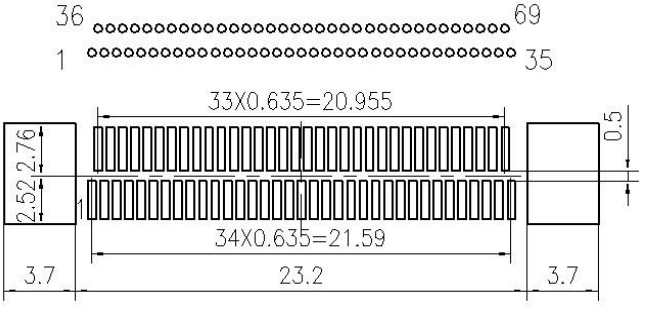
Suitable for the connector which cannot be provided with mounting holes on PCB, adopting welding installation. J63A-2B2-XXX-221-TH1 is butted with the plug with locking screws, and J63A-2B2-XXX-221-SH is butted with the plug with a guide post;

Locking parts include: TH1 welding-mounted connecting nut;

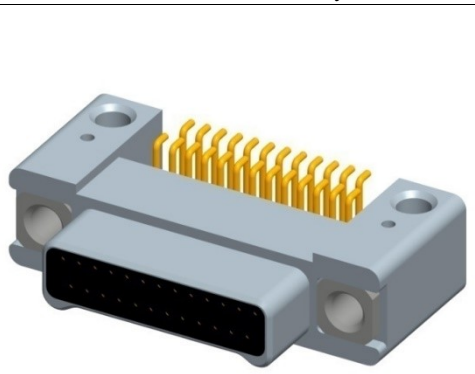
SH welding-mounted guide hole;

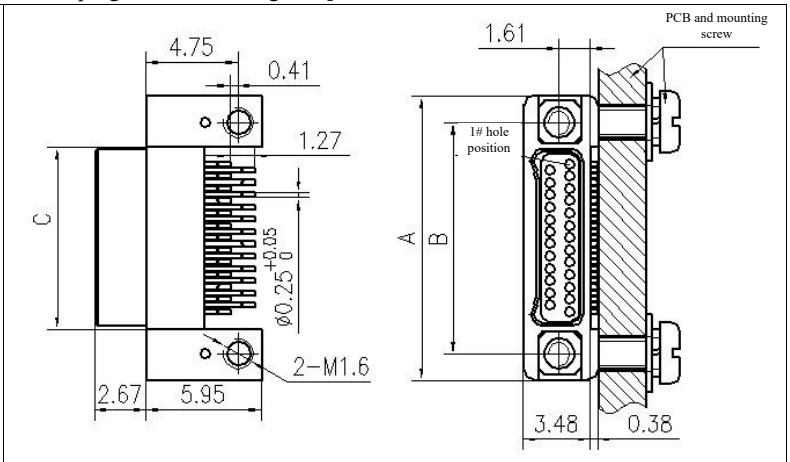
Use SMT welding technology;

Welding leads are easy to deform, so pay attention to protection.

PCB Package Dimensions (References)		
		
		
		
		
		

[J63A-2C2-XXX-121-TH horizontally-mounted surface-mount plug with connecting nuts]





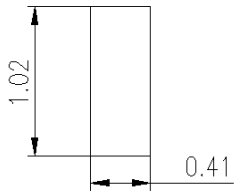
Number of cores	A	B	C
9	9.63	6.86	4.31
15	11.53	8.76	6.22
21	13.44	10.67	8.13
25	14.71	11.94	9.4
31	16.61	13.84	11.3
37	18.52	15.75	13.21
51	22.96	20.19	17.65
65	27.41	24.64	22.1
69	28.68	25.91	23.37

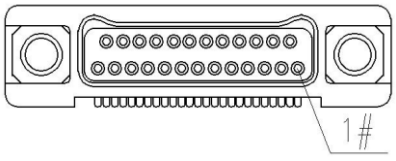
Suitable for the connector with the long-row end of the contact horizontally mounted against the mounting plate and butted with the socket with locking screws;

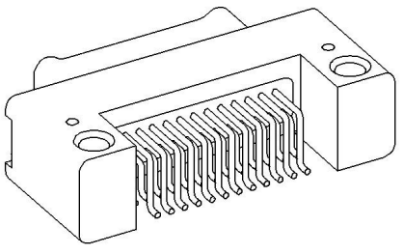
Use SMT welding technology, not applicable to manual welding;

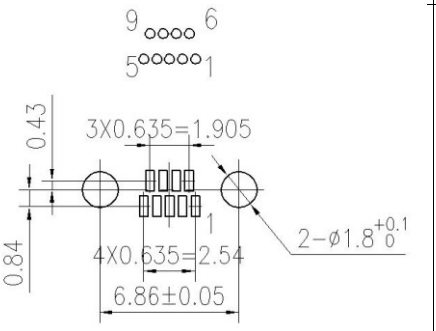
Welding leads are easy to deform, so pay attention to protection.

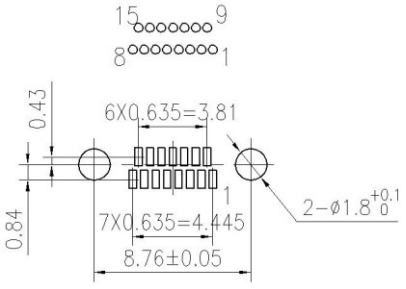
PCB Package Dimensions (References)

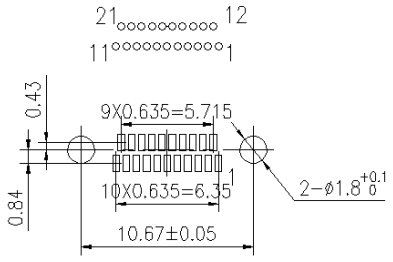


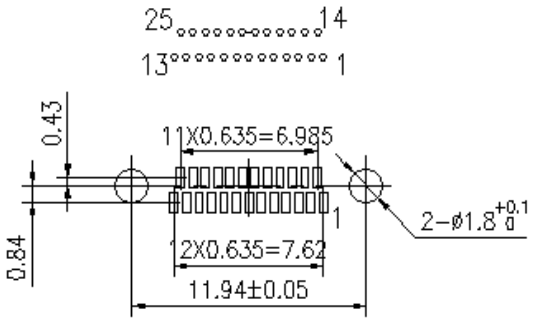


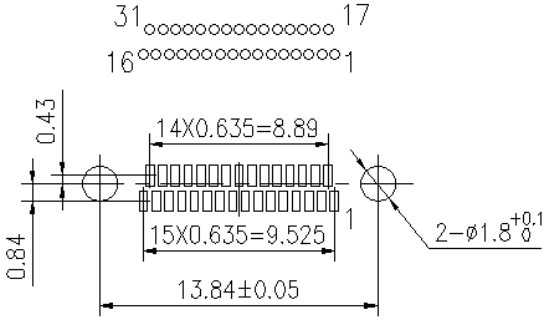


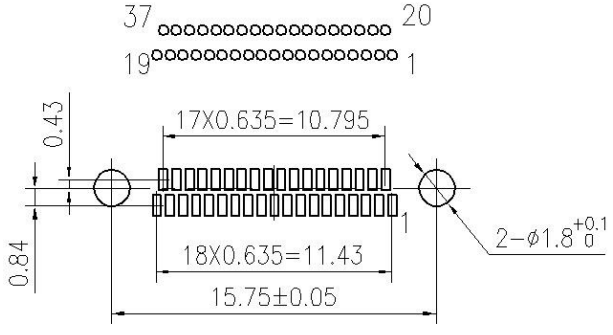


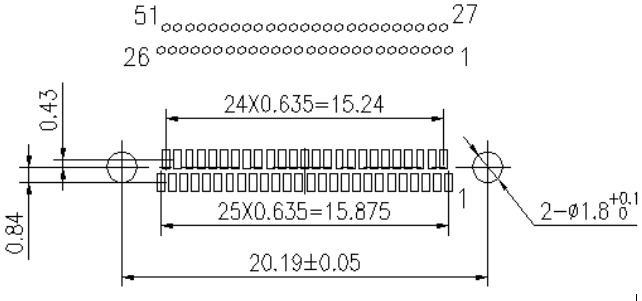


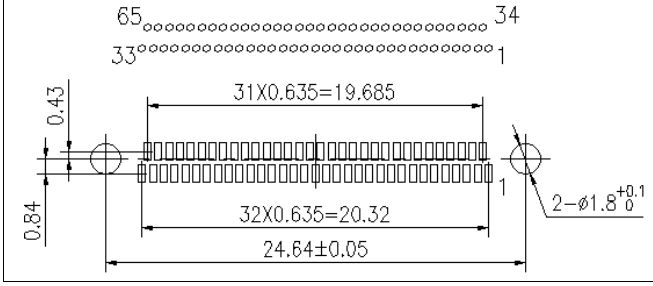


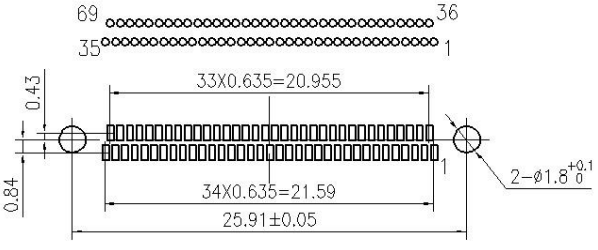




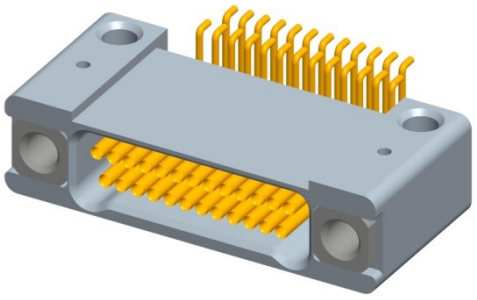


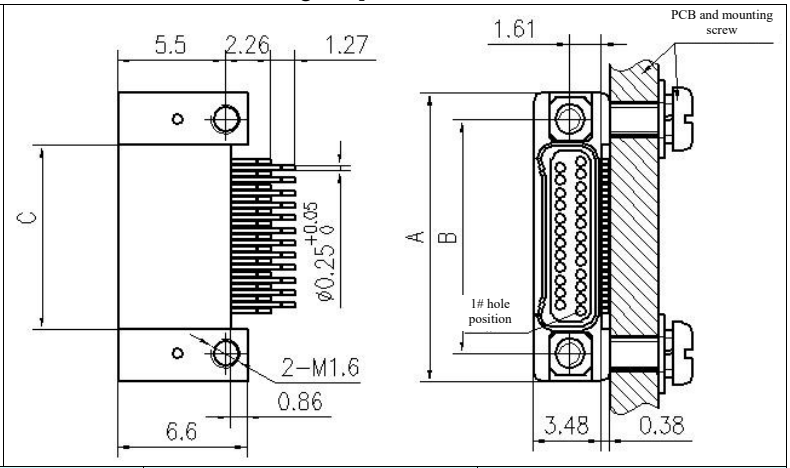






[J63A-2D2-XXX-221-TH horizontally-mounted surface-mount socket with connecting nuts]





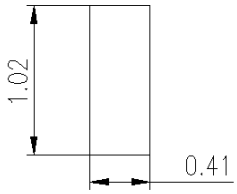
Number of cores	A	B	C
9	9.63	6.86	4.31
15	11.53	8.76	6.22
21	13.44	10.67	8.13
25	14.71	11.94	9.4
31	16.61	13.84	11.3
37	18.52	15.75	13.21
51	22.96	20.19	17.65
65	27.41	24.64	22.1
69	28.68	25.91	23.37

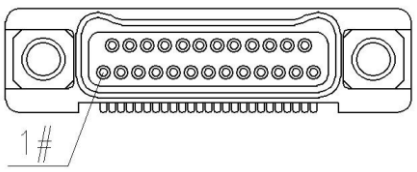
Suitable for the connector with the long-row end of the contact horizontally mounted against the mounting plate and butted with the plug with locking screws;

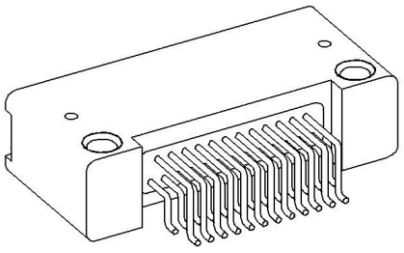
Use SMT welding technology, not applicable to manual welding;

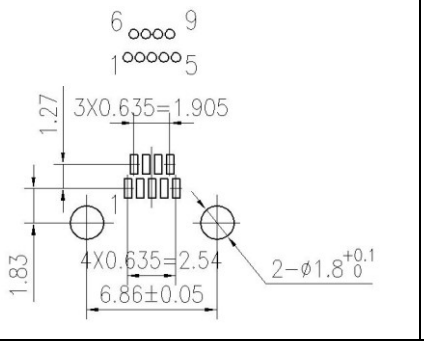
Welding leads are easy to deform, so pay attention to protection.

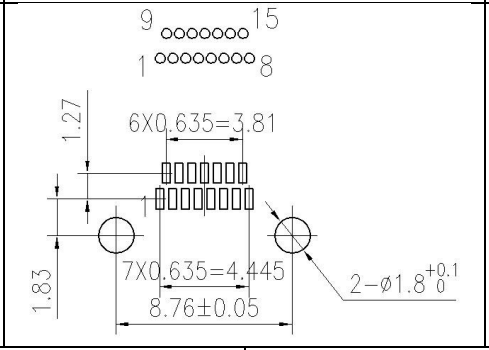
PCB Package Dimensions (References)

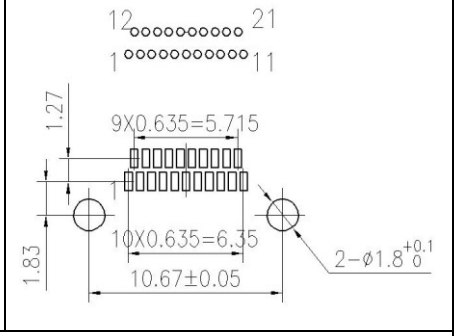


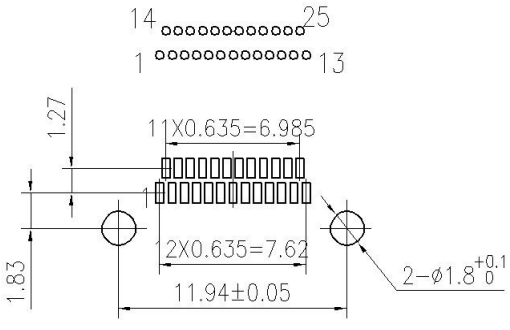


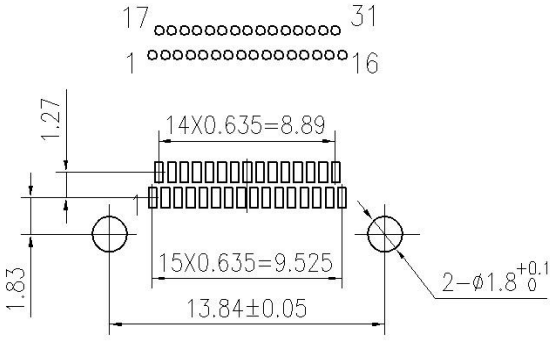


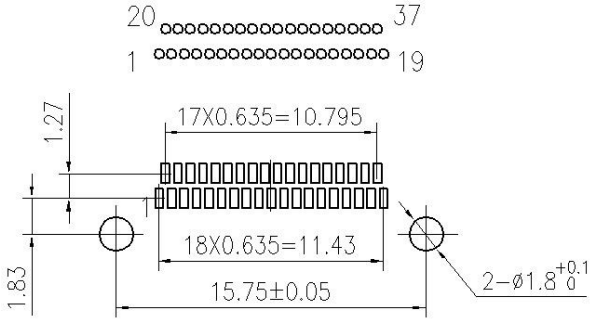


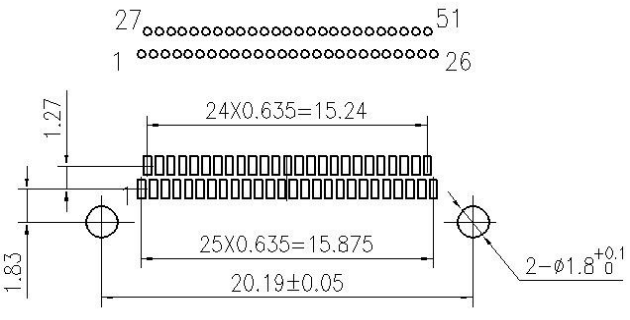


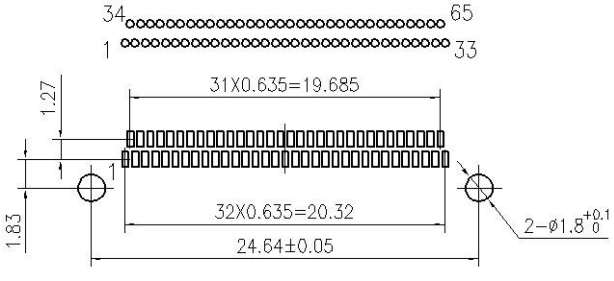


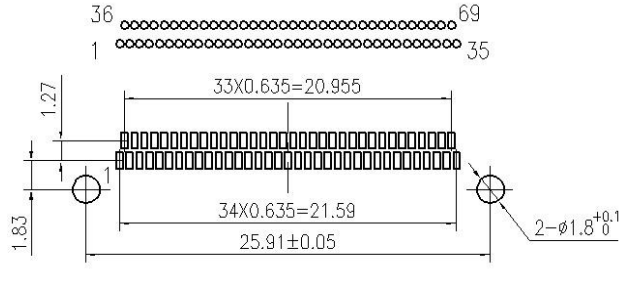




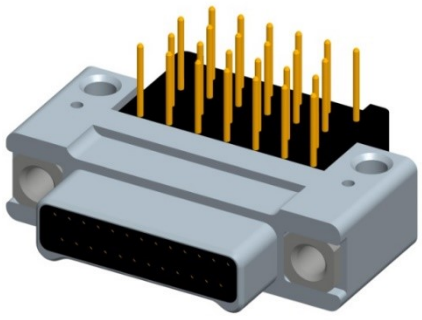




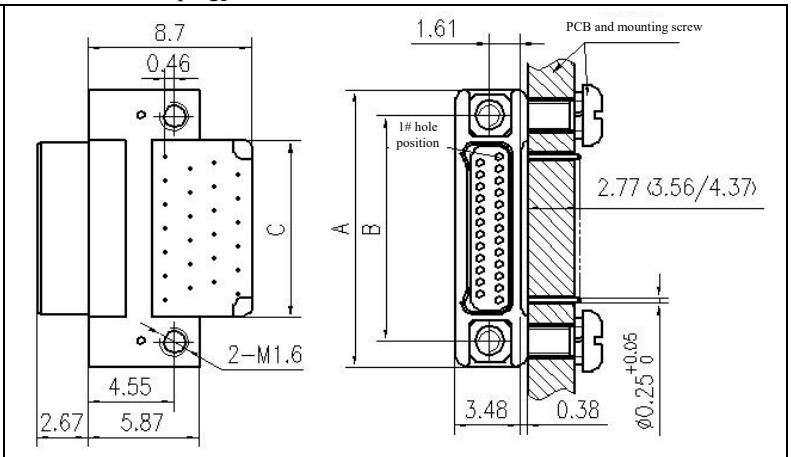


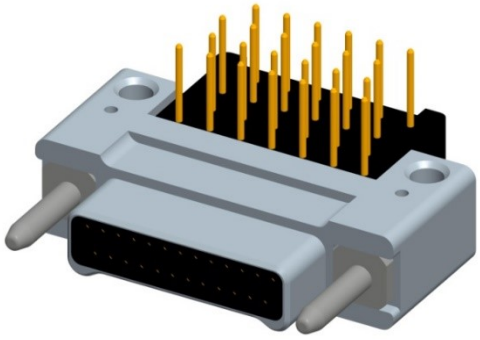


[J63A-2E2-XXX-32(33) (34)1-TH(DZ) horizontally-mounted bent PCB plug]

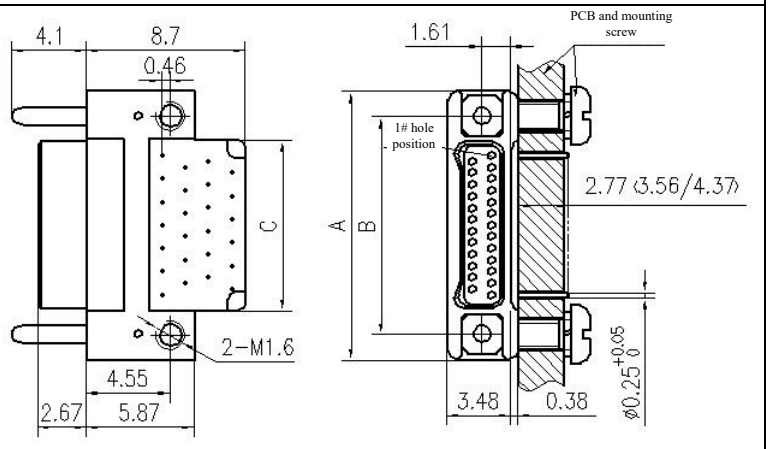


J63A-2E2-XXX-321-TH





J63A-2E2-XXX-321-DZ



Number of cores	A	B	C
9	9.63	6.86	4.25
15	11.53	8.76	6.15
21	13.44	10.67	8.06
25	14.71	11.94	9.33
31	16.61	13.84	11.23
37	18.52	15.75	13.14
51	22.96	20.19	17.58
65	27.41	24.64	22.03
69	28.68	25.91	23.3

Suitable for the connector with the long-row end of the contact horizontally mounted against the mounting plate. J63A-2E2-XXX-321-TH is butted with the socket with locking screws, and J63A-2E2-XXX-321-DZ is butted with the socket with a guide hole;

The lead has three length specifications: the termination form 32 represents the lead length of 2.77 mm;

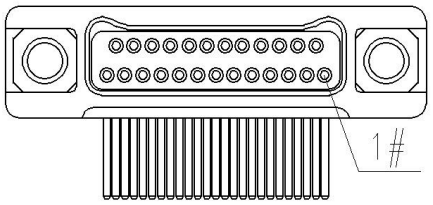
The termination form 33 represents the lead length of 3.56 mm;

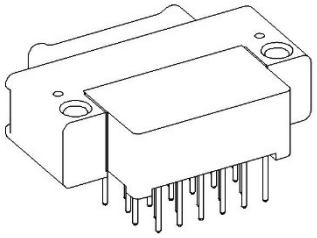
The termination form 34 represents the lead length of 4.37 mm;

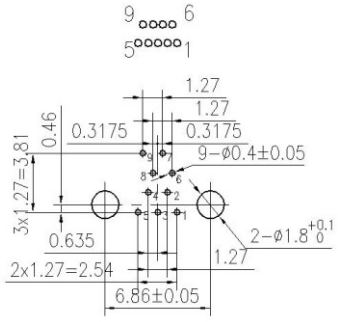
Locking parts include: TH connecting nut;

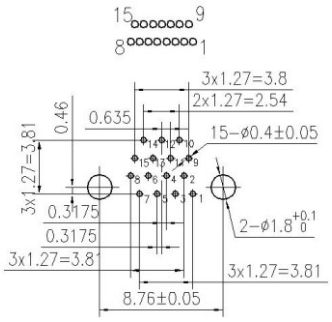
DZ guide post;

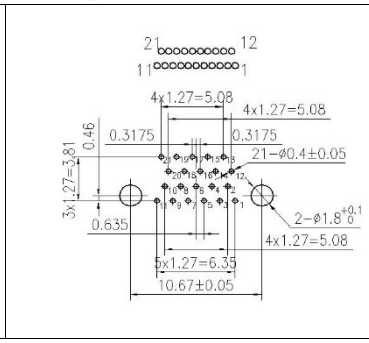
PCB Package Dimensions (References)

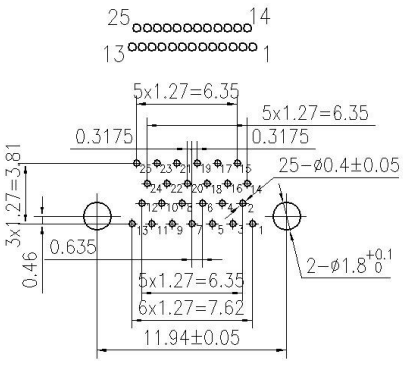


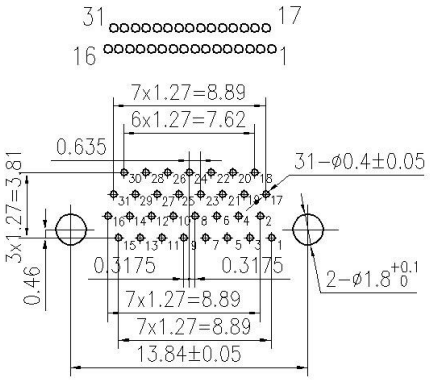


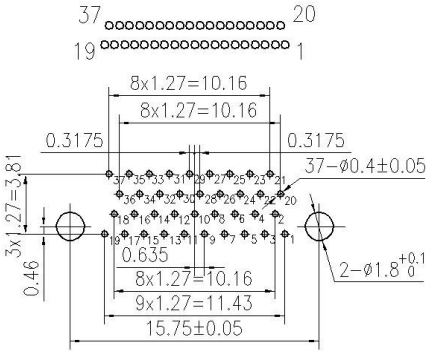


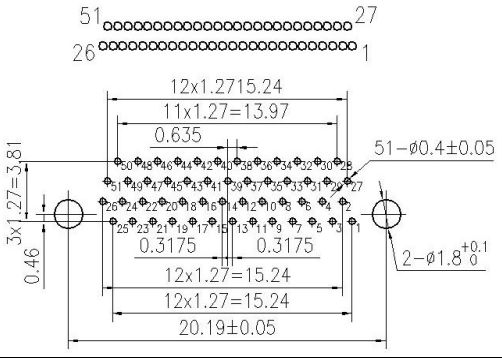


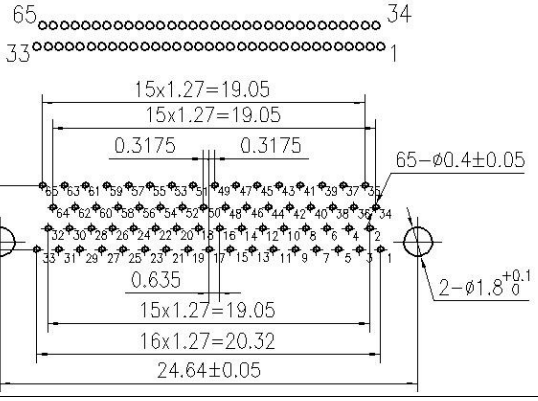


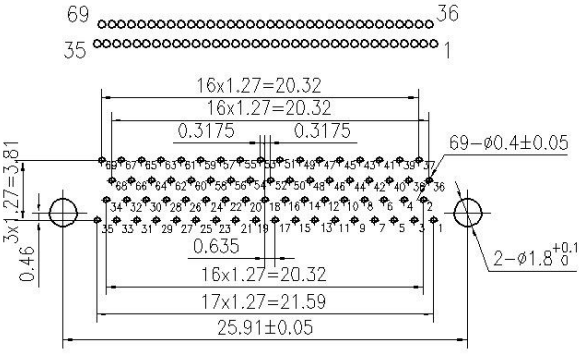




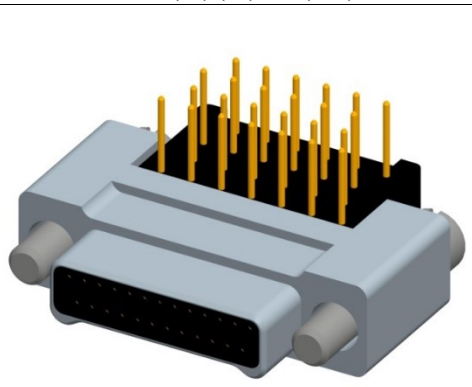


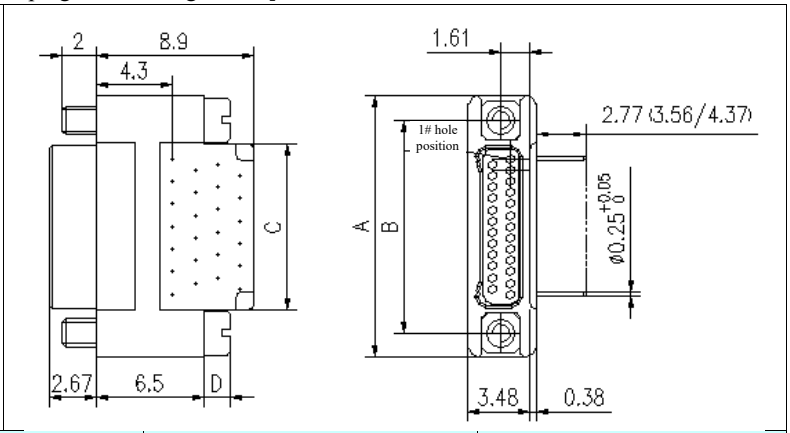






[J63A-2E2-XXX-32(33) (34)1-JC(JC1) flexible bent PCB plug with locking screws]





Number of cores	A	B	C
9	9.63	6.86	4.25
15	11.53	8.76	6.15
21	13.44	10.67	8.06
25	14.71	11.94	9.33
31	16.61	13.84	11.23
37	18.52	15.75	13.14
51	22.96	20.19	17.58
65	27.41	24.64	22.03
69	28.68	25.91	23.3

Suitable for the flexible PCB free-end connector, and butted with the socket with connecting nuts;

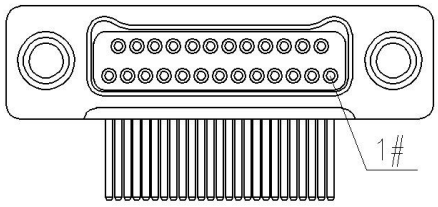
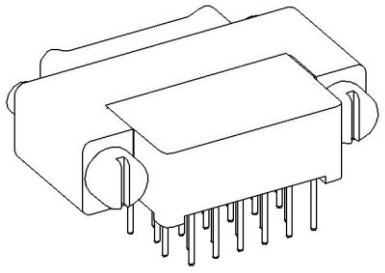
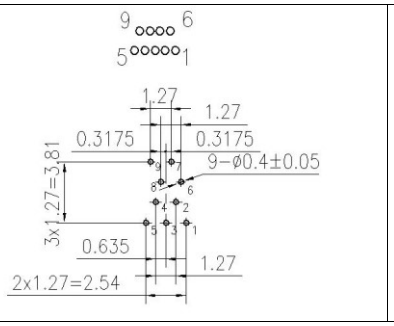
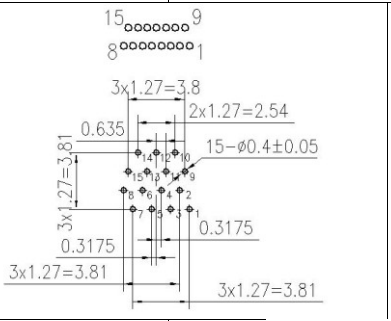
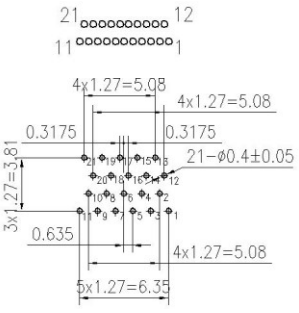
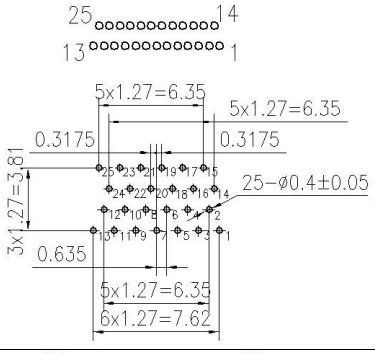
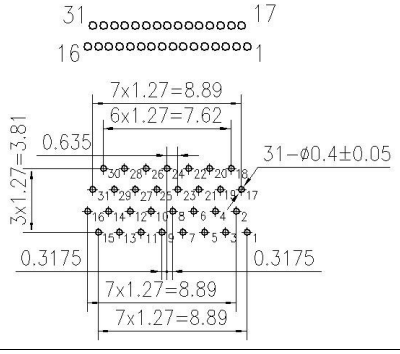
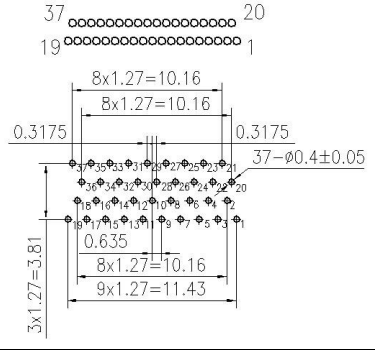
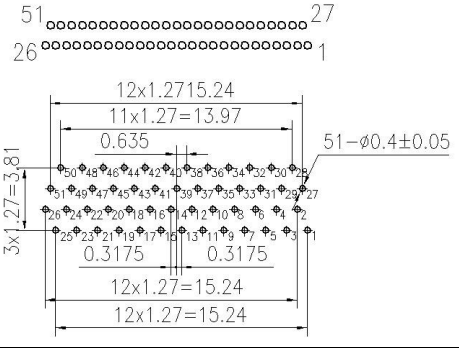
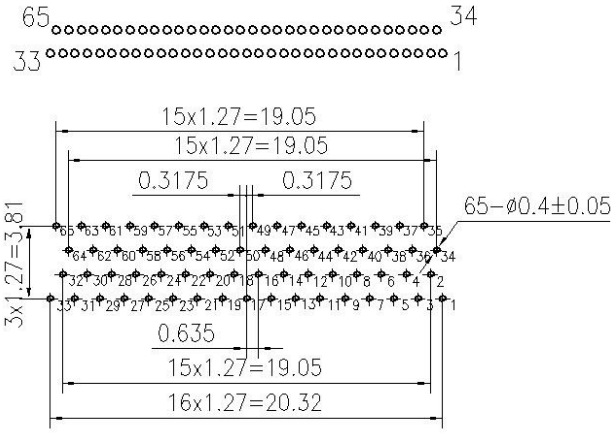
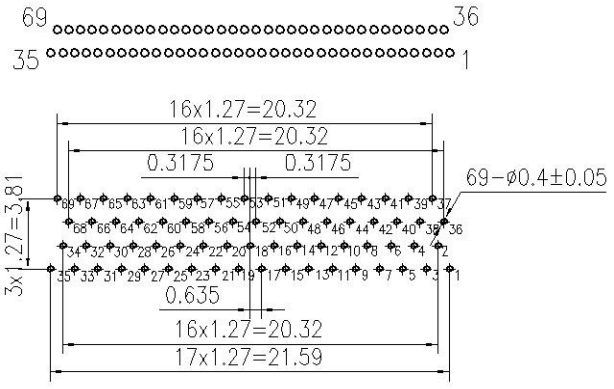
The lead has three length specifications: the termination form 32 represents the lead length of 2.77 mm;

The termination form 33 represents the lead length of 3.56 mm;

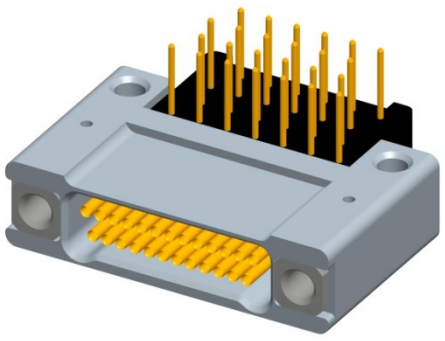
The termination form 34 represents the lead length of 4.37 mm;

Locking parts include: JC slotted locking screw, D = 1.5mm;

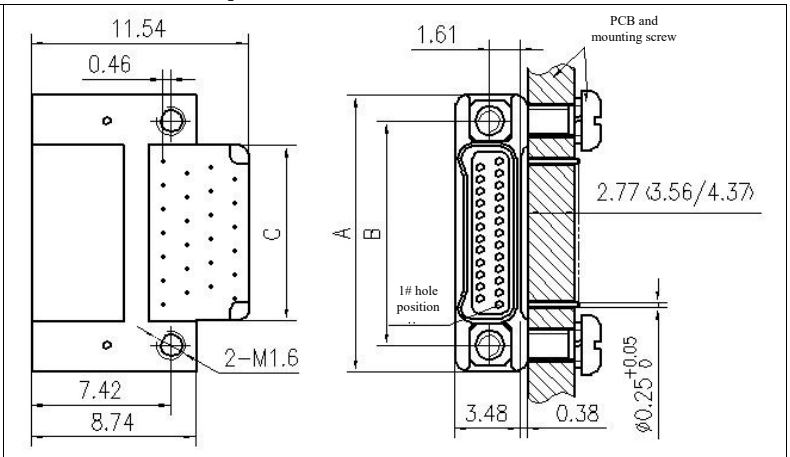
JC1 hexagon socket locking screw, D = 2.1mm;

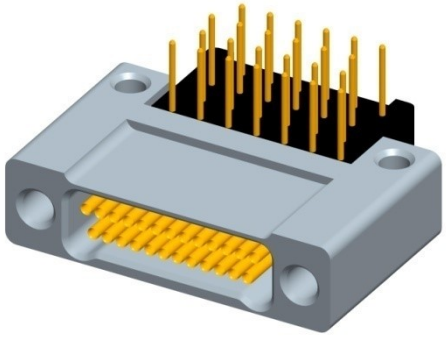
PCB Package Dimensions (References)	
	
		
	
	
	

[J63A-2F2-XXX-43(44) (45)1-TH(DK) horizontally-mounted bent PCB socket]

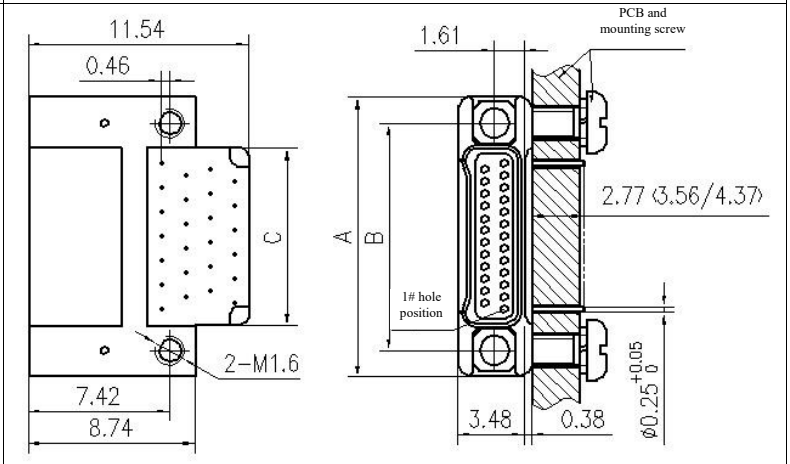


J63A-2F2-XXX-431-TH





J63A-2F2-XXX-431-DK



Number of cores	A	B	C
9	9.63	6.86	4.25
15	11.53	8.76	6.15
21	13.44	10.67	8.06
25	14.71	11.94	9.33
31	16.61	13.84	11.23
37	18.52	15.75	13.14
51	22.96	20.19	17.58
65	27.41	24.64	22.03
69	28.68	25.91	23.3

Suitable for the connector with the long-row end of the contact horizontally mounted against the mounting plate. J63A-2F2-XXX-431-TH is butted with the plug with locking screws, and J63A-2F2-XXX-431-DK is butted with the plug with a guide post;

The lead has three length specifications: the termination form 43 represents the lead length of 2.77 mm;

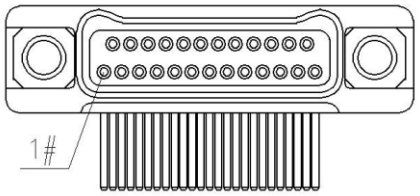
The termination form 44 represents the lead length of 3.56 mm;

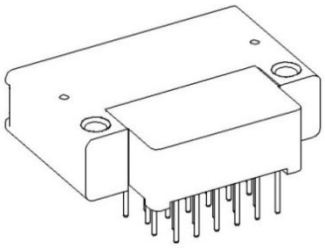
The termination form 45 represents the lead length of 4.37 mm;

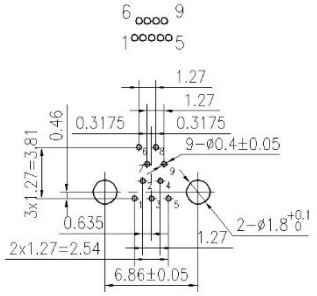
Locking parts include: TH connecting nut;

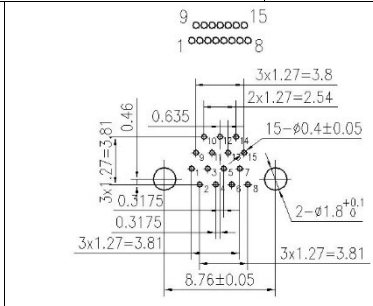
DK guide hole.

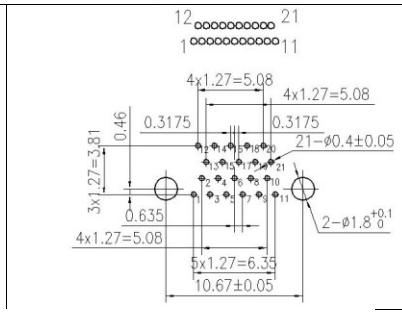
PCB Package Dimensions (References)

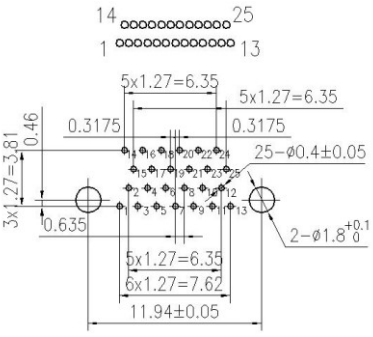


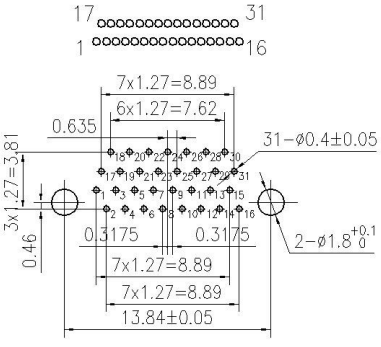


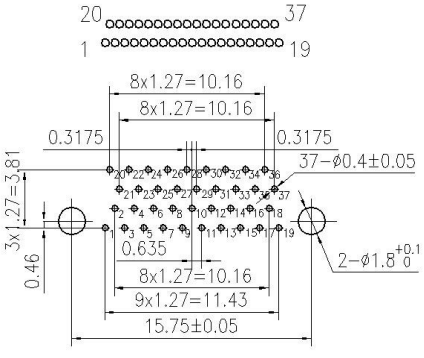


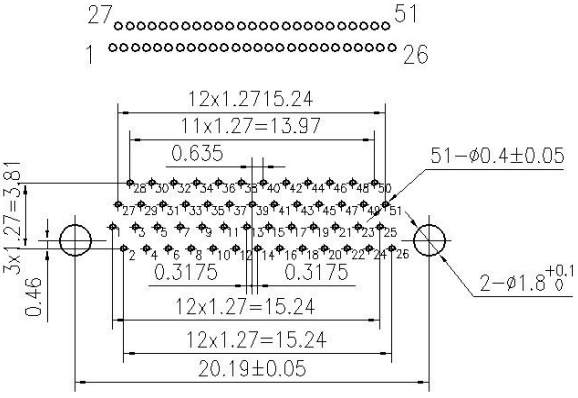


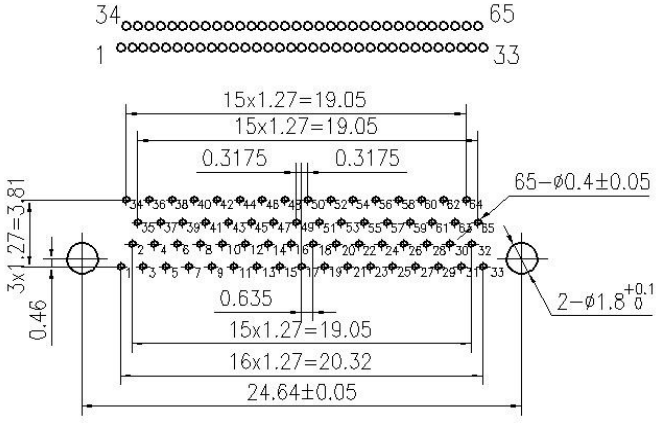


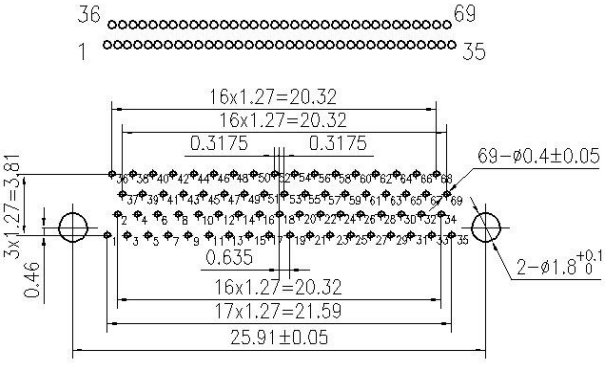




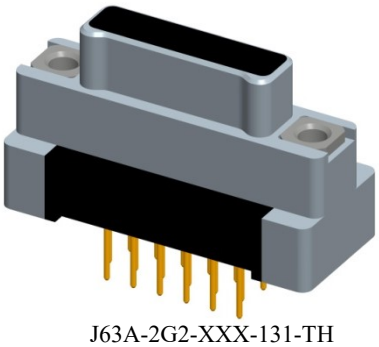




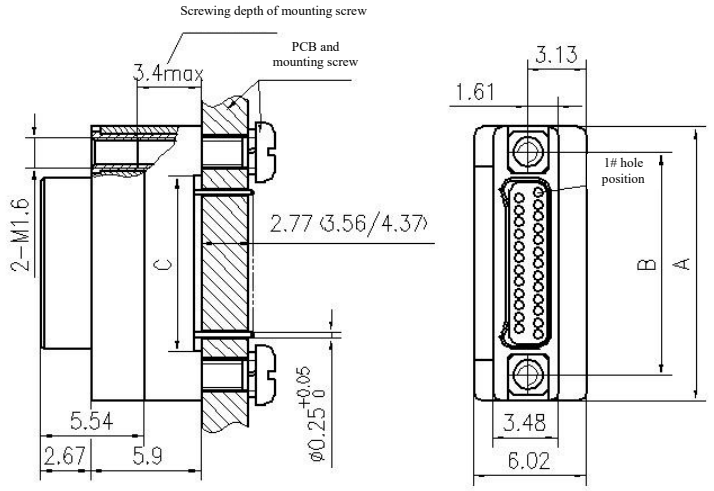


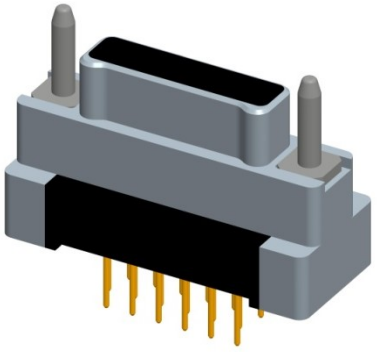


[J63A-2G2-XXX-13(14) (15)1-TH(DZ) vertically-mounted in-line PCB plug]

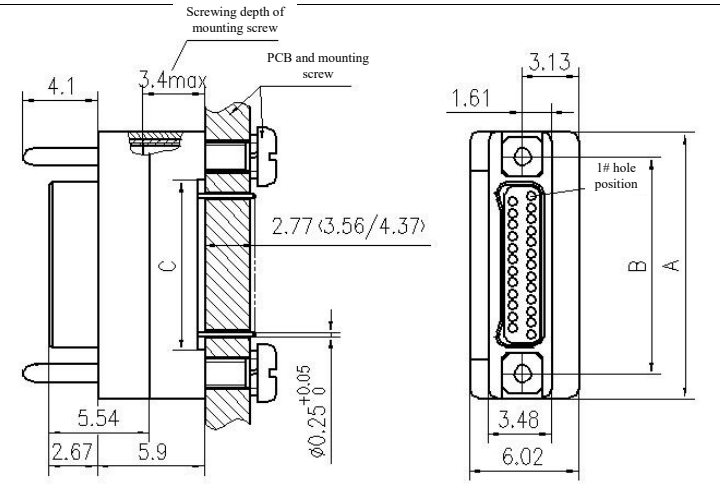


J63A-2G2-XXX-131-TH





J63A-2G2-XXX-131-DZ



Number of cores	A	B	C
9	9.63	6.86	4.31
15	11.53	8.76	6.22
21	13.44	10.67	8.13
25	14.71	11.94	9.4
31	16.61	13.84	11.3
37	18.52	15.75	13.21
51	22.96	20.19	17.65
65	27.41	24.64	22.1
69	28.68	25.91	23.37

Suitable for vertically-mounted connector. J63A-2G2-XXX-131-TH is butted with the socket with locking screws, and J63A-2G2-XXX-131-DZ is butted with the socket with a guide hole;

The lead has three length specifications: the termination form 13 represents the lead length of 2.77 mm;

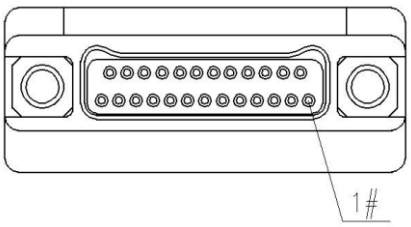
The termination form 14 represents the lead length of 3.56 mm;

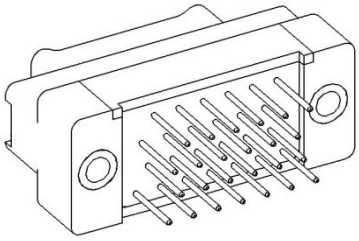
The termination form 15 represents the lead length of 4.37 mm;

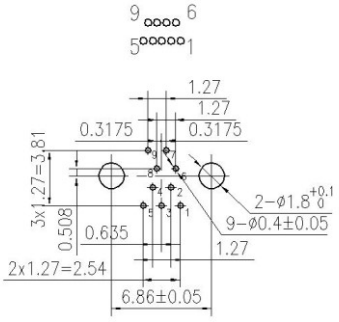
Locking parts include: TH connecting nut;

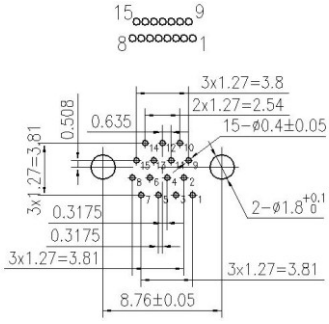
DZ guide post;

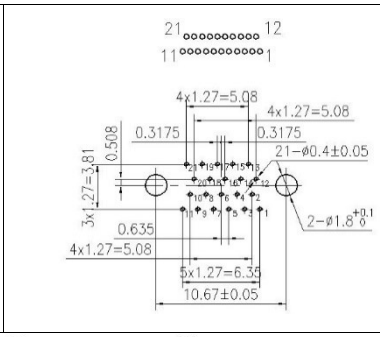
PCB Package Dimensions (References)

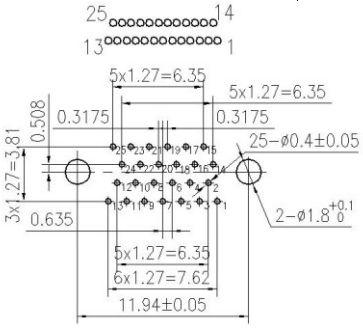


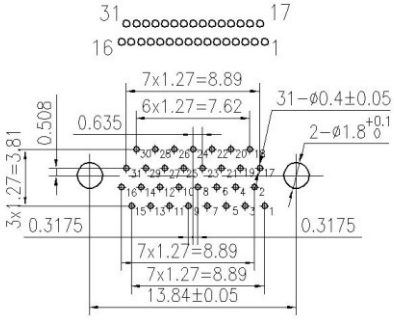


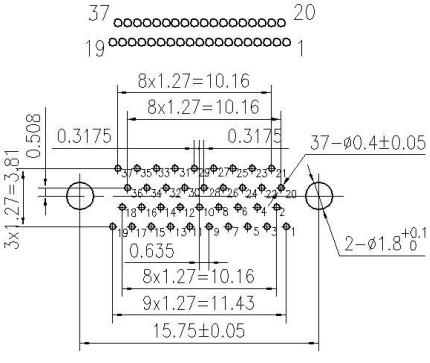


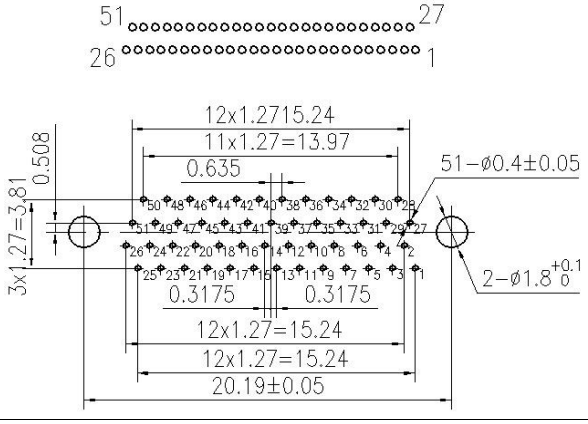


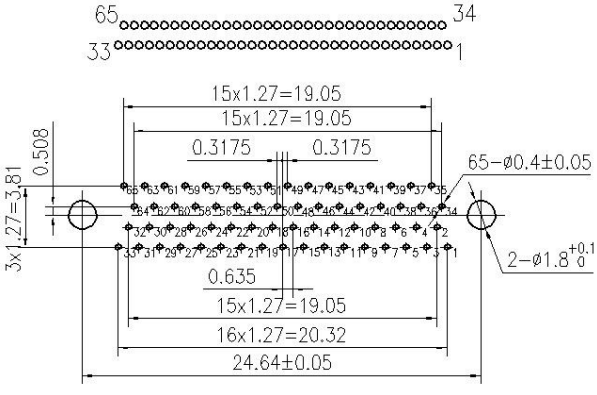


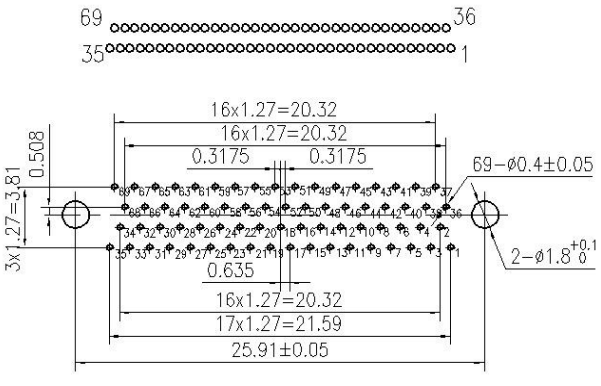




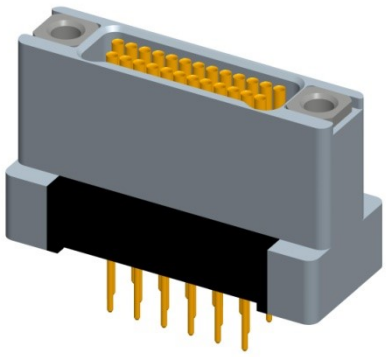




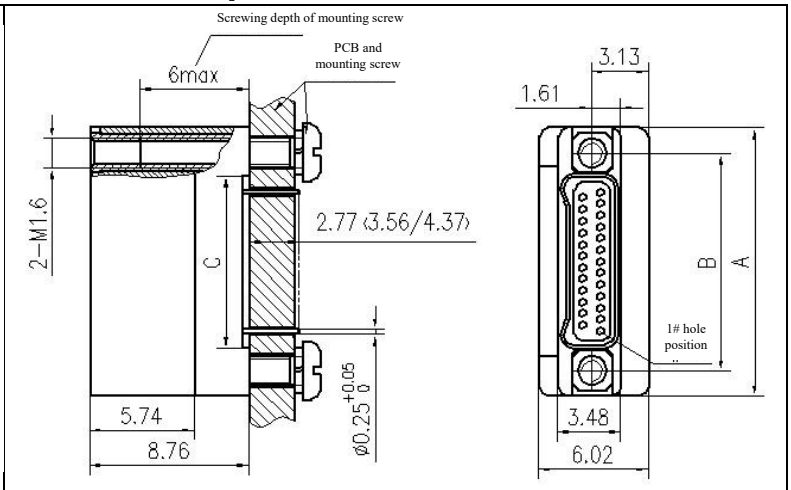


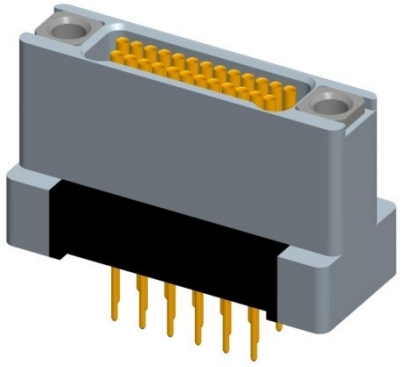


[J63A-2H2-XXX-23(24) (25)1-TH(DK) vertically-mounted in-line PCB socket]

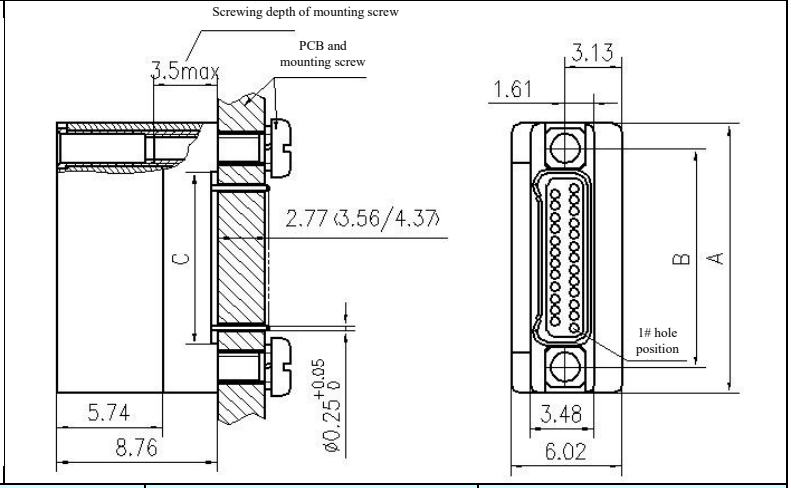


J63A-2H2-XXX-231-TH





J63A-2H2-XXX-231-DK



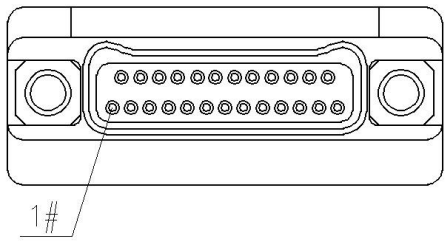
Number of cores	A	B	C
9	9.63	6.86	4.31
15	11.53	8.76	6.22
21	13.44	10.67	8.13
25	14.71	11.94	9.4
31	16.61	13.84	11.3
37	18.52	15.75	13.21
51	22.96	20.19	17.65
65	27.41	24.64	22.1
69	28.68	25.91	23.37

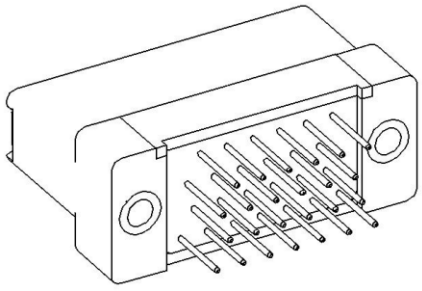
Suitable for vertically-mounted connector. J63A-2H2-XXX-231-TH is butted with the plug with locking screws, and J63A-2H2-XXX-231-DK is butted with the plug with a guide post;

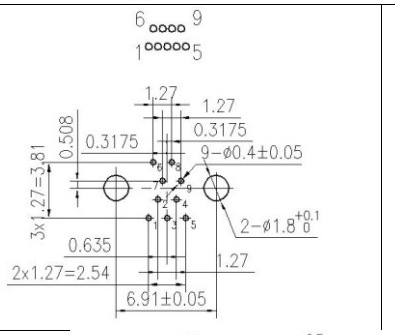
The lead has three length specifications: the termination form 23 represents the lead length of 2.77 mm;
The termination form 24 represents the lead length of 3.56 mm;
The termination form 25 represents the lead length of 4.37 mm;

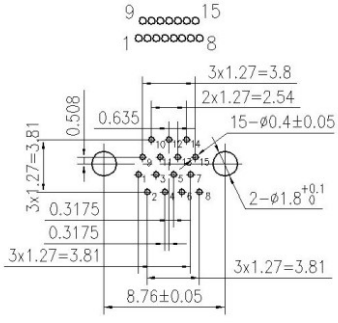
Locking parts include: TH connecting nut;
DK guide hole.

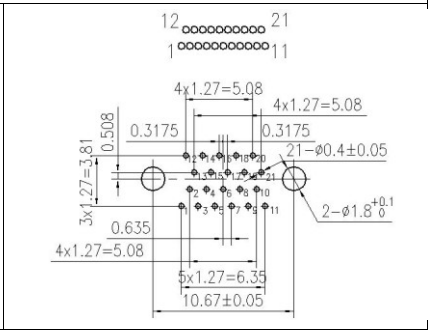
PCB Package Dimensions (References)

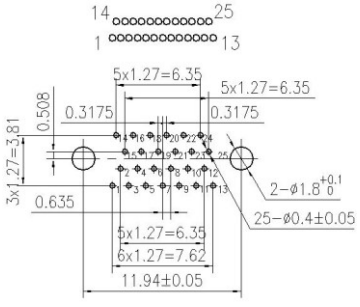


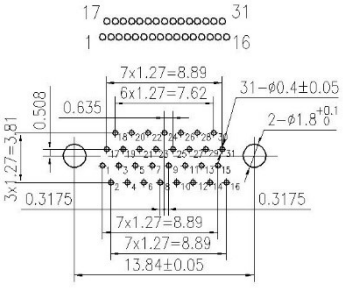


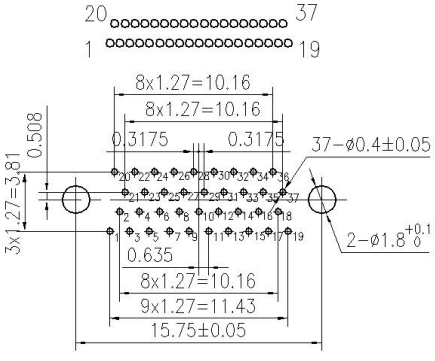


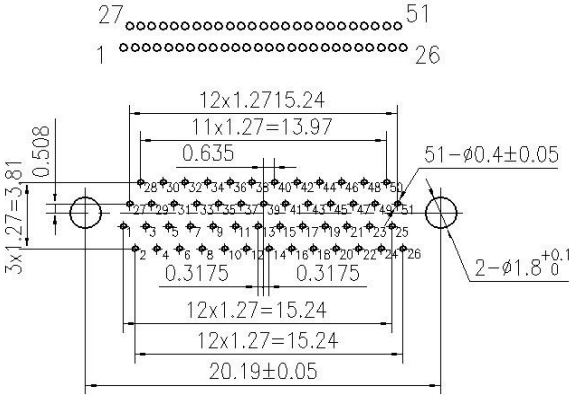


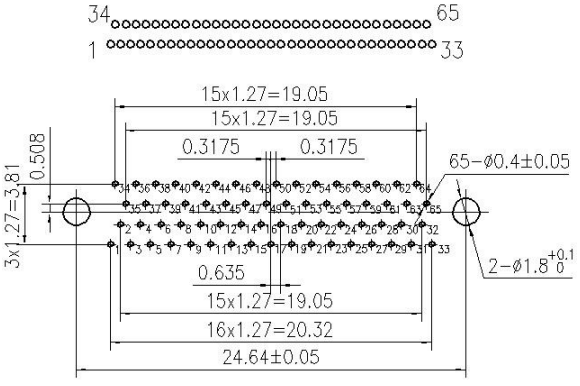


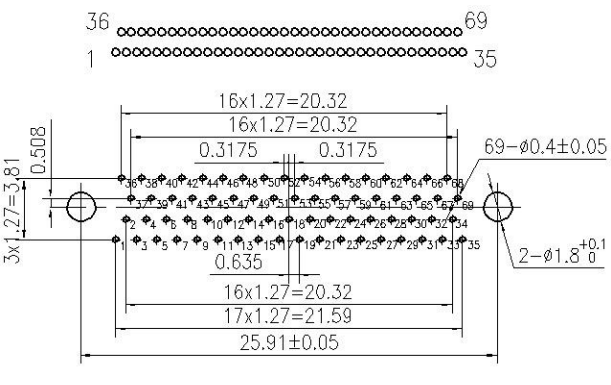




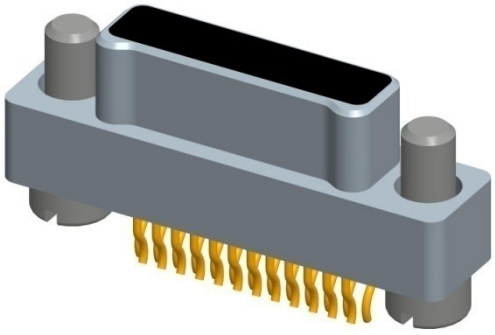


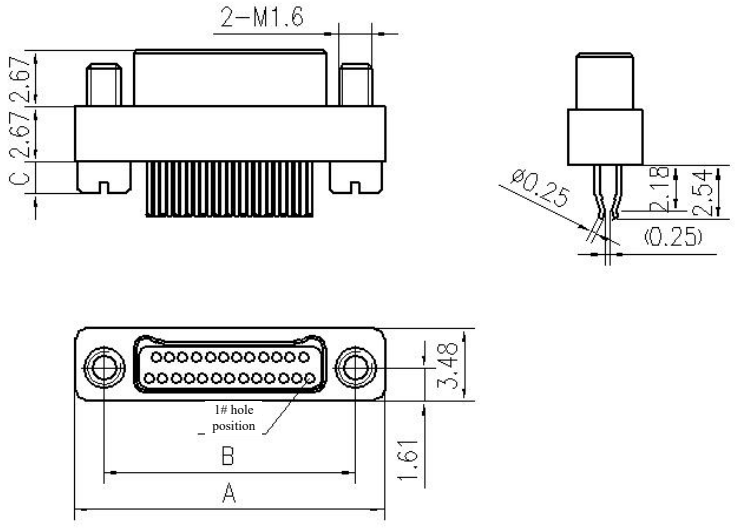






[J63A-212-XXX-121-JC(JC1) straddling flexible surface-mount plug with locking screws]





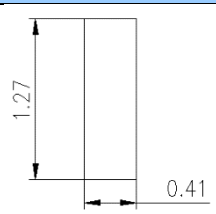
Number of cores	A	B
9	9.63	6.86
15	11.53	8.76
21	13.44	10.67
25	14.71	11.94
31	16.61	13.84
37	18.52	15.75
51	22.96	20.19
65	27.41	24.64
69	28.68	25.91

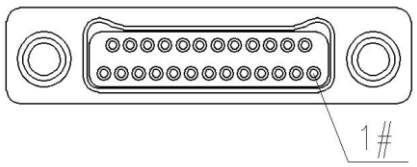
Suitable for the flexible PCB free-end connector with a thickness of not more than 0.25 mm, and butted with the socket with connecting nuts;

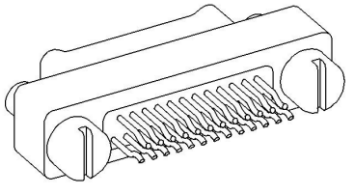
Locking parts include: JC slotted locking screw, C = 1.5mm;

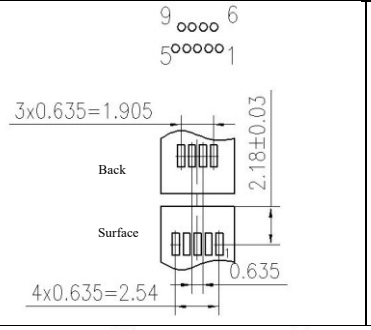
JC1 hexagon socket locking screw, C = 2.1mm.

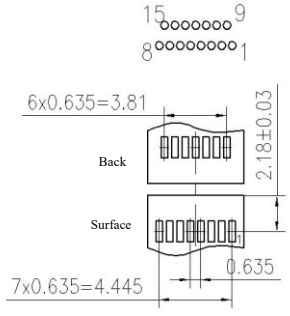
PCB Package Dimensions (References)

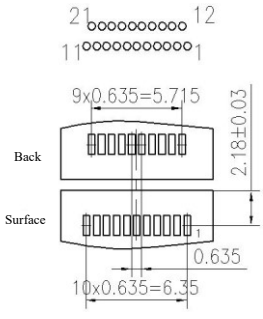


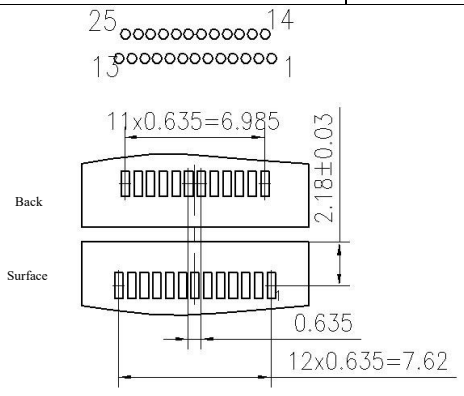


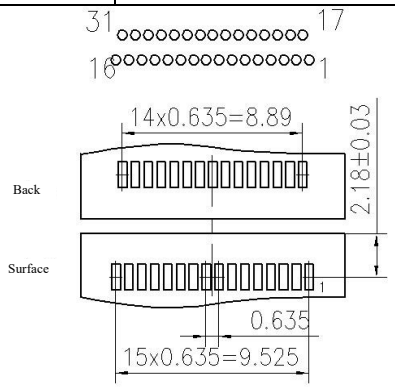


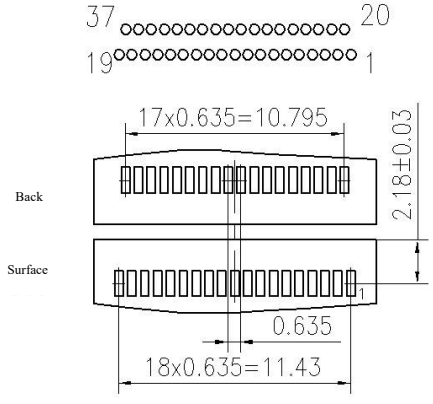


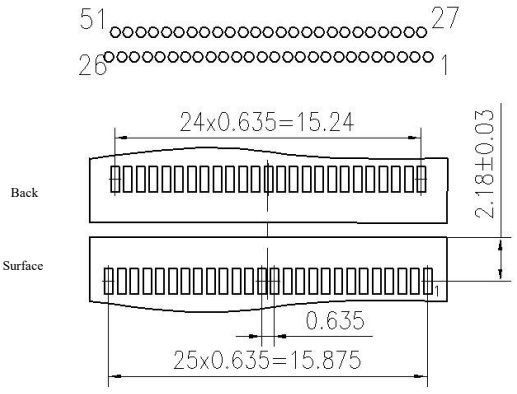


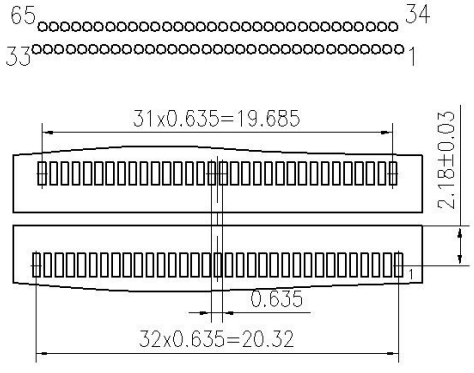


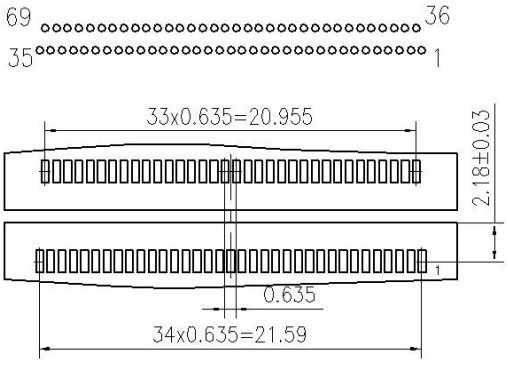




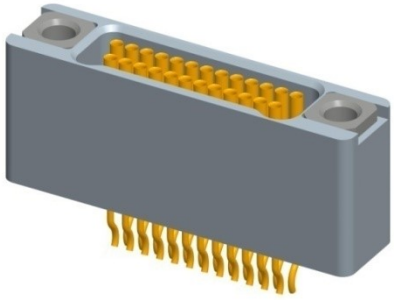


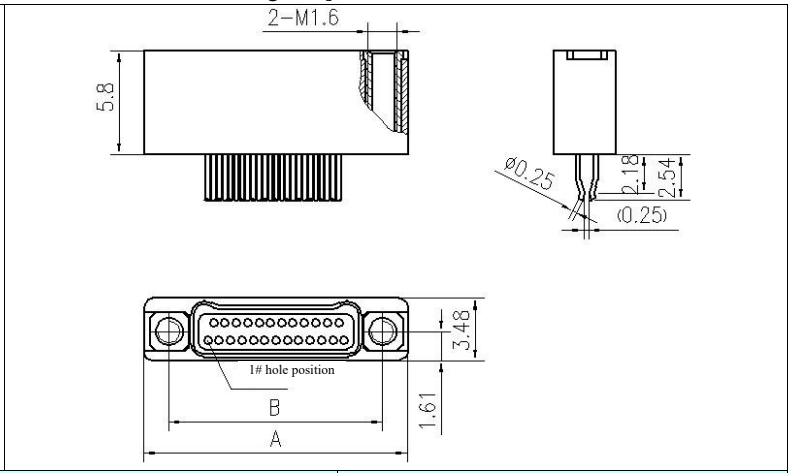






[J63A-222-XXX-221-TH Straddling flexible surface-mount socket with connecting nuts]

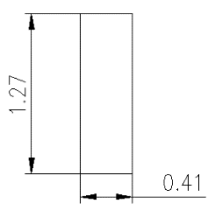


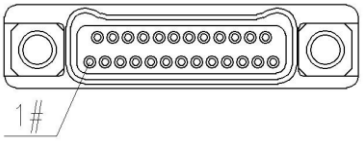


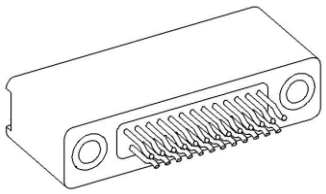
Number of cores	A	B
9	9.63	6.86
15	11.53	8.76
21	13.44	10.67
25	14.71	11.94
31	16.61	13.84
37	18.52	15.75
51	22.96	20.19
65	27.41	24.64
69	28.68	25.91

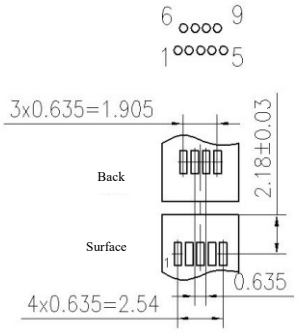
Suitable for the flexible PCB fixed-end connector with a thickness of not more than 0.25 mm, and butted with the plug with locking screws.

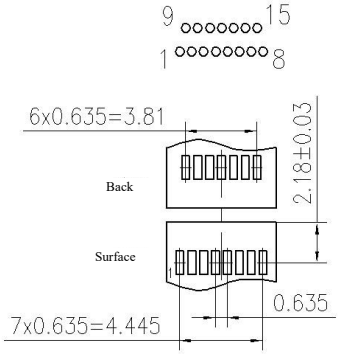
PCB Package Dimensions (References)

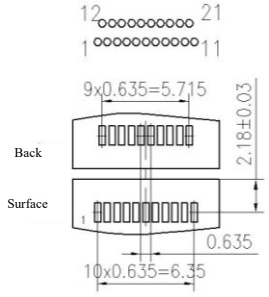


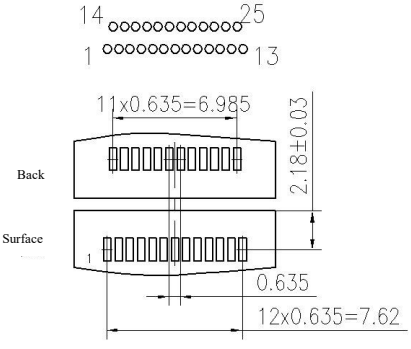


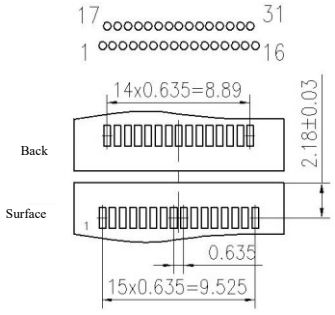


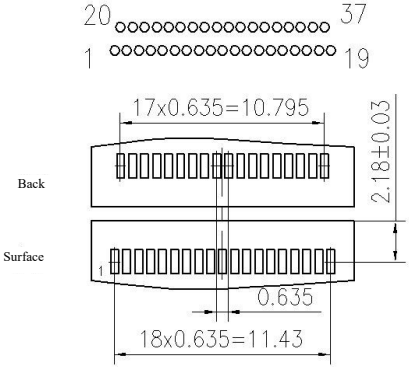


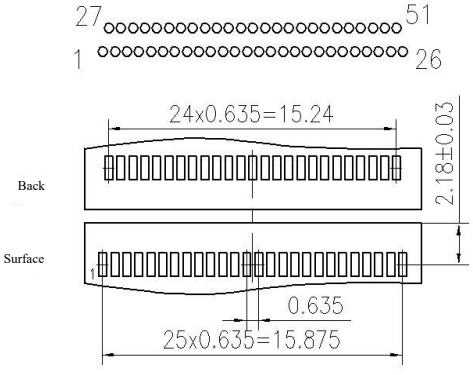


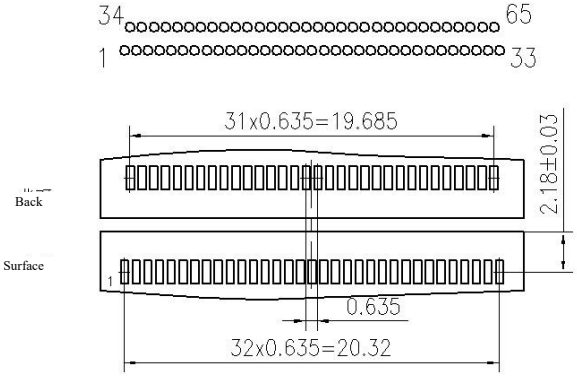


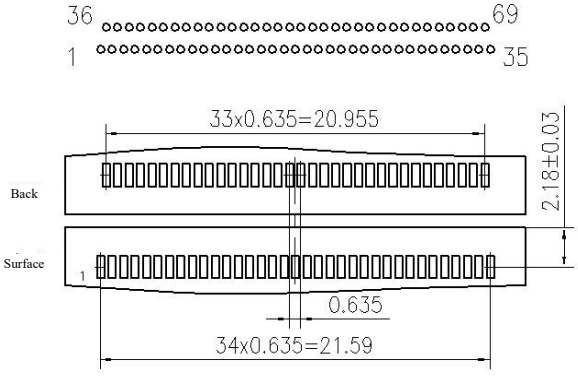






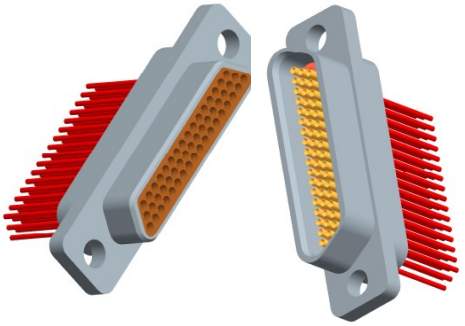






J30J Series Micro-rectangular Electrical Connector

Product Overview



- Trapezoidal housing positioning, in-line micro-rectangular electrical connector;
- The contact adopting flexible twist pins and rigid Jack structure;
- Small in size, light in weight, easy to use and reliable in performance;
- Number of cores: 11 specifications of 9, 15, 21, 25, 31, 37, 51, 66, 74, 100 and 144 cores;
- Execute enterprise standard:

Q/Ag 1.296 Detailed Specification for J30J Micro-rectangular Electrical Connectors (conforming to MIL-C-83513, equivalent to MIL-C-83513)

Q/Ag 1.296.2 Detailed Specification for J30J Micro-rectangular Electrical Connectors (conforming to aerospace standard Q/QJA 20113/24-2018)

Product Performance

Mechanical Properties

Housing	Aluminum alloy, stainless steel
Plating	Nickel plating, passivation
Insulator	Thermoplastic
Contact	Gold-plated copper alloy, crimping type, welding type, PCB type
Mechanical life	500 plugging and unplugging cycles

Impact	490m/s^2	
Vibration	Sinusoidal vibration	Frequency 10 ~ 2000 Hz Acceleration 196 m/s^2
Random vibration	Power spectral density 0.4G^2/Hz, Total acceleration RMS 23.1G	

Electrical Performance

Contact resistance and rated current of contacts

Contact Specification	Contact resistance mΩ		Rated current A
	Before lifetime	After lifetime	
Twist pins	≤10	≤20	3

Magnetic permeability	Not more than 2.0
Insulation resistance	under normal conditions ≥ 5000 MΩ; under damp and hot conditions ≥ 1 MΩ
Withstand voltage	under normal conditions ≥ 600Vrms; under damp and hot conditions ≥ 360Vrms, Under low pressure conditions ≥ 150Vrms

Environmental Performance

Temperature range	-55 ℃ ~ +125 ℃	Relative humidity	90% ~ 95% at 40 ℃
Salt spray	48h	Working air pressure	101.33 kPa ~ 4.39 kPa

Model Designation

	J30J	A	-	9	TJ	W	P42	-	J	(Additional Information)
Code of main designation	J30J: Nickel-plated aluminum alloy housing 30JS: Stainless steel housing passivation									
Series variant	No indication: basic type A - Quick-lock type; R - Reverse-mounted type D - Mounting hole is changed to M2-6H M - Glue seal; M1 - Glass-sintered seal									
Number of contacts	9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144									
Contact type	TJ – plug installed with the pin, ZK – socket installed with the Jack TK - plug installed with the Jack, ZJ - socket installed with the pin (reverse-mounted type)									
Tail type	See Table 1									
Locking assembly type	Free end: L, L7, L9, K, K2 Fixed end: P, P0, P2, P3, P4, P5, P7, P8, P9, P10, etc.									
Basic variant	See Table 2. The blank of this item means no variant; if there are multiple items, they shall be written in alphabetical order, such as -AD									
Additional Information	Wire requirements: See Table 3, for crimping type products only									

Table 1

Contact tail form	Mark code	Contact tail form	Mark code
Crimping wire type	No indication	Welding	S
In-line PCB, lead length 5.7	N	In-line PCB, lead length 6.7	N3
In-line PCB, lead length 7.2	N4	In-line PCB, lead length 8	N8
Bent PCB, height exposed the mounting surface 3	W	Bent PCB, height exposed the mounting surface 2.6	W2.6
Bent PCB, height exposed the mounting surface 3.5	W3.5	Bent PCB, height exposed the mounting surface 4.5	W4.5

Table 2

Basic variant	Mark code	Basic variant	Mark code
Shielding mesh clamp at tail end of housing	A	A1 clamp assembly	A1
A2 clamp assembly	A2	A3 clamp assembly	A3
The outgoing direction of the product is vertical to the axial direction of the contact	C	Curved short-side outgoing, shielded	C1
Curved long-side outgoing, shielded	C2	Flange length, width and mounting hole spacing are increased	Q
Flange length, width and mounting hole spacing are increased	Q8	The abutting end of the socket housing flange is provided with an anti-rotation groove	D
Combination of variant A and variant Q8	AQ8	Combination of variant A and variant D	AD
PCB grid spacing 1.27 × 2.54 (column × row)	J		

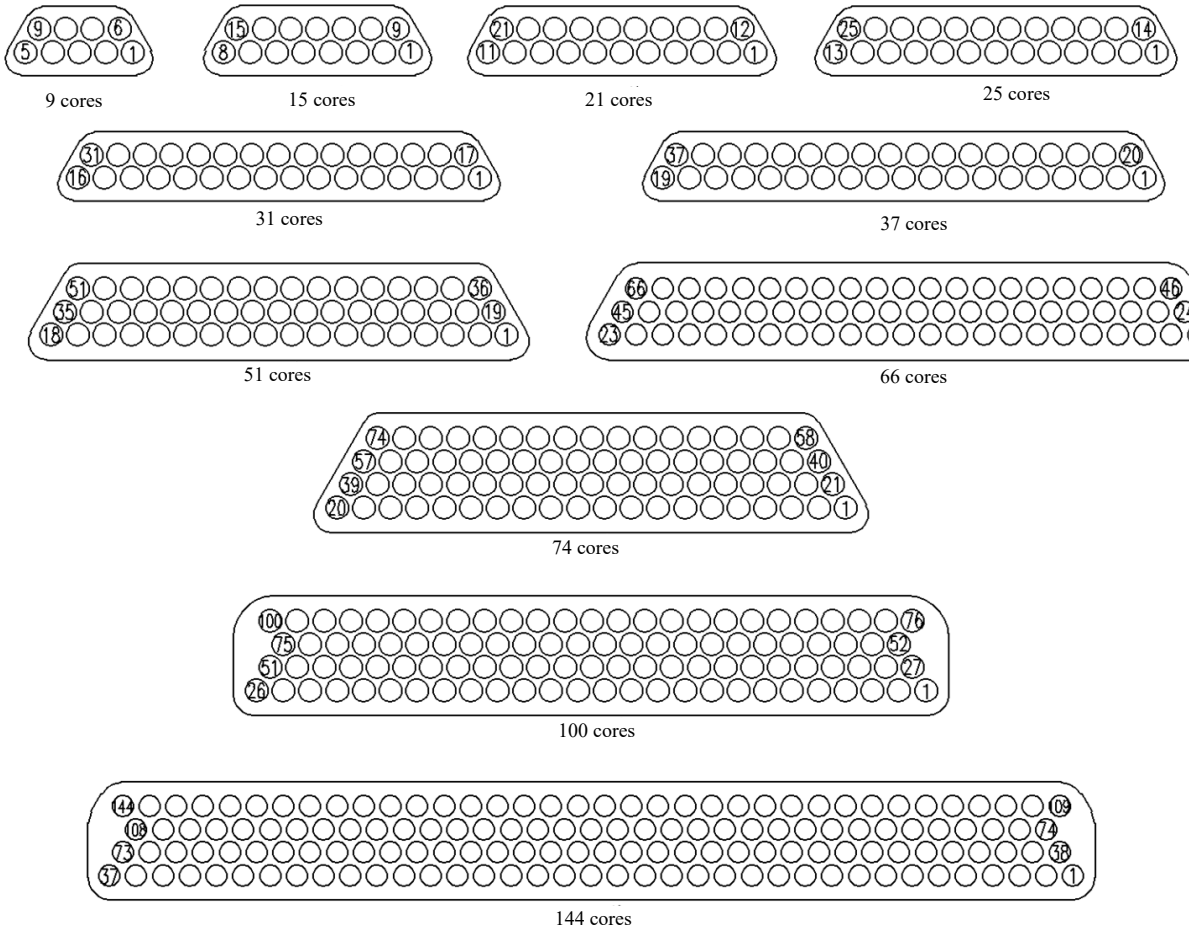
Table 3

No.	Classification feature	Classification content	Mark code
1	Wire color	R: red; W: white; M: purple; G: green; A: gray; U: blue; Y: yellow; B: black; N: orange;	R, W, M, G, A, U, Y, B, N
2	L	Connector with wires	L
3	Wire length	1000: wire length value in mm	1000
4	Wire specification	A: 0.15mm^2 AFR-250 B: 0.12mm^2 AFR-250 D: 0.15mm^2 AFRP-250 F: 0.15mm^2 AF-250 etc.	A, B, D, F etc.
5	Additional requirements	No indication: no additional requirements 1: Wire jacket nylon sleeve 2: Wire jacket anti-wave sleeve 3: Wire jacket anti-wave sleeve and nylon sleeve 4: Marker at the end of wire, etc.	1, 2,3, 4, etc.

Model example: J30J-31ZKP-A (WL200A3)

The above marks indicate that the number of contacts is 31 cores, the socket is installed with the Jack, the end of the contact is crimped, with a P-type locking assembly, and the end of the housing is equipped with a shielding mesh clamp; the specification of the wire is AFR-250, the cross-sectional area of the wire core is 0.15 mm^2, the length is 200 mm, and the color is white; the whole wire harness is covered with a anti-wave sleeve and a nylon sleeve.

J30J Series Spectrum Arrangement (View of Pin-mounted Insulator Insertion Surface)



9 cores

15 cores

21 cores

25 cores

31 cores

37 cores

51 cores

66 cores

74 cores

100 cores

144 cores

Note: The positions of the above contacts are arranged as viewed from the butt end of the plug, and the socket end is opposite to it.

Classification of J30J Series Plug and Socket

Type of Plug and Socket		Basic Identification	Structural Features
Crimping type	Basic type	Plug J30J-TJ Socket J30J-ZK	Metal housing, electroless nickel plating, wire crimping, straight outgoing
	Variant	Plug J30J-TJ-A Socket J30J-ZK-A	Compared with J30J-TJ/ZK, a straight cable clamp is added at the tail of the product
		Plug J30J-TJ-C Socket J30J-ZK-C	Compared with J30J-TJ/ZK, the wire is 90° bent outgoing
		Plug J30J-TJ-C1 Socket J30J-ZK-C1	Compared with J30J-TJ/ZK, the curved clamp is added, with short-side outgoing
		Plug J30J-TJ-C2 Socket J30J-ZK-C2	Compared with J30J-TJ/ZK, the curved clamp is added, with long-side outgoing
		Plug J30J-TJ-D Socket J30J-ZK-D	Compared with J30J-TJ/ZK, an anti-rotation groove is added on the flange
		Plug J30J-TJ-AD Socket J30J-ZK-AD	Compared with J30J-TJ/ZK-A, an anti-slip groove is added on the side of the housing, and an anti-rotation groove is added on the flange
		Plug J30J-TJ- Q Socket J30J-ZK-Q	Compared with J30J-TJ/ZK, the housing flange and installation dimensions are increased to the corresponding dimensions
		Plug J30J-TJ-Q8 Socket J30J-ZK-Q8	Compared with J30J-TJ/ZK, the housing flange and installation dimensions are increased to the corresponding dimensions
		Plug J30J-TJ-AQ8 Socket J30J-ZK-AQ8	Compared withJ30J-TJ/ZK-A, the housing flange and installation dimensions are increased to the corresponding dimensions
Welding type		Plug J30J-TJS Socket J30J-ZKS	Compared with J30J-TJ/ZK, the contact termination is welding cup type
In-line PCB type		Plug J30J-TJN	In-line PCB type; the PCB grid spacing is 2.54 × 2.54, and the lead length is 5.7

	Socket J30J-ZKN	
	Plug J30J-TJN3 Socket J30J-ZKN3	Compared with J30J-TJN/ZKN, the lead length is extended to 6.7
	Plug J30J-TJN4 Socket J30J-ZKN4	Compared with J30J-TJN/ZKN, the lead length is extended to 7.2
	Plug J30J-TJN8 Socket J30J-ZKN8	Compared with J30J-TJN/ZKN, the lead length is extended to 8
	Plug J30J-TJN-J Socket J30J-ZKN-J	In-line PCB type; the PCB grid spacing is 1.27 × 2.54, and the lead length is 5.7
	Plug J30J-TJN3-J Socket J30J-ZKN3-J	Compared with J30J-TJN/ZKN-J, the lead length is extended to 6.7
	Plug J30J-TJN4-J Socket J30J-ZKN4-J	Compared with J30J-TJN/ZKN-J, the lead length is extended to 7.2
	Plug J30J-TJN8-J Socket J30J-ZKN8-J	Compared with J30J-TJN/ZKN-J, the lead length is extended to 8
Bent PCB type	Plug J30J-TJW Socket J30J-ZKW	Bent PCB type; the PCB grid spacing is 2.54 × 2.54, and the lead length is 3
	Plug J30J-TJW2.6 Socket J30J-ZKW2.6	Compared with J30J-TJW/ZKW, the lead length is reduced to 2.6
	Plug J30J-TJW3.5 Socket J30J-ZKW3.5	Compared with J30J-TJW/ZKW, the lead length is extended to 3.5
	Plug J30J-TJW4.5 Socket J30J-ZKW4.5	Compared with J30J-TJW/ZKW, the lead length is extended to 4.5
	Plug J30J-TJW-J Socket J30J-ZKW-J	Bent PCB type; the PCB grid spacing is 1.27 × 2.54, and the lead length is 3
	Plug J30J-TJW2.6-J Socket J30J-ZKW2.6-J	Compared with J30J-TJW/ZKW-J, the lead length is reduced to 2.6
	Plug J30J-TJW3.5-J Socket J30J-ZKW3.5-J	Compared with J30J-TJW/ZKW-J, the lead length is extended to 3.5
	Plug J30J-TJW4.5-J Socket J30J-ZKW4.5-J	Compared with J30J-TJW/ZKW-J, the lead length is extended to 4.5
Quick-lock type	Plug J30JA-TJ Socket J30JA-ZK	Both sides of the product are directly inserted by a locking piece to realize quick locking
Reverse-mounted pin and Jack type	Plug J30JA-TK Socket J30JA-ZJ	Compared with J30JA-TJ/ZK, the plug is installed with the Jack and the socket is installed with the pin
	Plug J30JR-TK Socket J30JR-ZJ	The plug is installed with the Jack and the socket is installed with the pin
	Plug J30JR-TK-A Socket J30JR-ZJ-A	Compared with J30JR-TK/ZJ, a straight cable clamp is added at the tail of the product
	Plug J30JR-TKS Socket J30JR-ZJS	Compared with J30JR-TK/ZJ, the contact termination is welding cup type
	Plug J30JR-TKN Socket J30JR-ZJN	The contact termination is in-line PCB type; the PCB grid spacing is 2.54 × 2.54
	Plug J30JR-TKN-J Socket J30JR-ZJN-J	The contact termination is in-line PCB type; the PCB grid spacing is 1.27 × 2.54
	Plug J30JR-TKW Socket J30JR-ZJW	The contact termination is bent PCB type; the PCB grid spacing is 2.54 × 2.54
	Plug J30JR-TKW-J Socket J30JR-ZJW-J	The contact termination is bent PCB type; the PCB grid spacing is 1.27 × 2.54
Mounting hole variant	Plug J30JD-TJ Socket J30JD-ZK	Mounting hole is changed to M2-6H
Glue-sealed type	Socket J30JM-ZK	The air leakage rate index is 5×10^{-2}Pa·cm^3/s
Glass-sintered sealing type	Socket J30JM1-ZKS	The air leakage rate index is 1×10^{-3}Pa·cm^3/s
Stainless steel series variant	Main designation of the series is J30JS	The housing and locking device are all made of stainless steel, and the rest are the same as the ordinary products

Instructions for Product Selection

J30J series products are in-line micro-rectangular electrical connectors with trapezoidal housing positioning, and the contacts are flexible pin and rigid Jack structure. The products are available in various forms such as crimping type, welding type and PCB type, which can be used together. Any type of plug and socket with the same number of cores can be used together.

When J30J products are selected, the plug assembly, socket assembly, clamp assembly and locking assembly shall be selected at the same time, so that the plug or socket with locking function can be selected. The clamp assembly is not necessary. The clamp assemblies include type A, type A1, type A2 and type A3. The type A clamp assembly is formed by lengthening the housing and adding a clamping plate, which is not removable, and its maximum length and width shall not exceed the length and width of the flange. Type A1, A2 and A3 clamp assemblies are two-clasp type clamp assemblies, and their overall dimensions exceed the flange width. Type A3 clamp assembly can only be used with the free-end locking assembly; it can be selected as required.

In addition, since not all plug and socket assemblies, locking assemblies and clamp assemblies can be combined and matched arbitrarily, the following items should be known when selecting J30J products:

1. The plug and socket assemblies equipped with the clamp assembly should not be equipped with the locking assembly installed in front of the board (that is, the mounting screw is suitable for the locking assembly installed in front of the board), because the existence of the clamp will make the mounting plate unable to be installed; if the plug and socket assemblies equipped with the clamp assembly are to be equipped with the locking assembly installed behind the board, the thickness of the mounting plate must be considered as “mounting plate + 0.7”;
2. The plug and socket assemblies with a capital letter “D” in the model cannot be equipped with locking assemblies such as L, L1 ~ L8, K, K1, etc.
3. If the plug and socket assemblies with the capital letter “D” in the model are to be equipped with the locking assembly installed behind the board, the thickness of the mounting plate must be considered as “mounting plate + 0.6”.
4. The J30J-TJ/ZK-Q plug (socket) assembly is equipped with a flange-interface rubber pad by default, but the rubber pad is meaningful only when the plug (socket) assembly is equipped with a fixed-end locking assembly, and the rubber pad is not required if the plug (socket) assembly is assembled with a free-end locking assembly. If the plug (socket) assembly is equipped with a special locking assembly, it is necessary to determine whether to use a flange-interface rubber pad according to whether the locking assembly needs to be fixed with the mounting plate. However, considering the uniformity of the product status, no matter what kind of locking assemblies are equipped, the rubber pad will leave the factory with the product.
5. When selecting the crimping connector, it is necessary to determine the color and length of the wire, whether the wire harness needs to be shielded, and whether the nylon sleeve is needed. If the user has other special requirements for the wire brand and wiring mode of the product, he should confirm with the company's technicians and confirm the product model before ordering.
6. If most of the holes of the product need to be connected with wires with thicker outer diameter, it should be considered whether the glue-filling cavity and clamp assembly of the product have enough accommodation space, and the conclusion can only be drawn after trial assembly.
7. For the treatment of empty points in the product, if there is no technical agreement or no consensus has been reached before, the empty points shall be blocked with jacks or pins that are not crimped with wires.

Operation Precautions

The specific operation process of the product: install the connector on the panel with the mounting screws, and then insert the plug and socket in place and screw the two locking screws into the corresponding locking screw holes to complete the connection.

The product is strictly prohibited to contact with acid, alkali and other polar solvents during transportation, storage and use.

When the product is not connected for a long time, it is necessary to cover the dust cover.

The welding temperature shall be no more than 280 ℃ and the welding time shall be no more than 3s when wire welding is performed on the welded product.

Instructions for Ordering Double-ended Cable Assembly

J30J series double-ended cable assembly is composed of two J30J products with the same core number. The same hole positions of the products at both ends of the cable assembly are butted one by one through AFR-250 wires. The cable can be covered with anti-wave sleeve and nylon silk sleeve. The type of the products at both ends of the cable, the locking assembly and the length of the cable, the specification and color of the wire, and whether the cable is covered with anti-wave sleeve or nylon sleeve can be selected. Withstand voltage of the cable assembly AC 600Vrms, insulation resistance ≥ 5000MΩ. See the diagram below:

J30J Double-ended Cable Assembly:

30J-A Double-ended Cable Assembly:

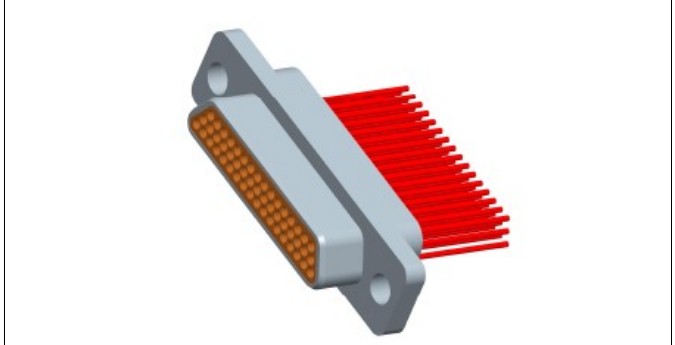
Model Designation

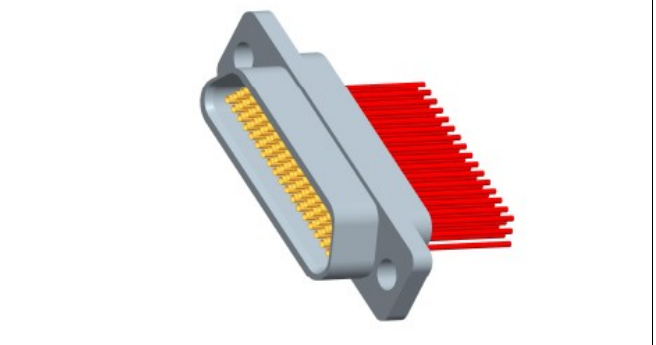
		J30J	-9	TJ	L	-	/	J30J	-9	TJ	L	-	(Wire)
Code of main designation	J30J: basic type 30JS: Stainless steel housing					A						A	
Number of contacts	9, 15, 21, 25, 31, 37, 51, 74, 100, 144												
Contact type	TJ – plug installed with the pin, ZK – socket installed with the Jack TK - plug with a Jack, ZJ - socket with a pin												
Type of locking assembly	See J30J model designation for details												
Identification of variants	No identification - Ordinary J30J crimping products; A - Shielding mesh clamp at tail end of housing												
Code of main designation	Same as above												
Number of contacts	Same as above, and the number of cores at both ends shall be consistent												
Contact type	Same as above												
Locking assembly type	See J30J model designation for details												
Identification of variants	Same as above												
Detailed description of wires	See J30J model designation for details												

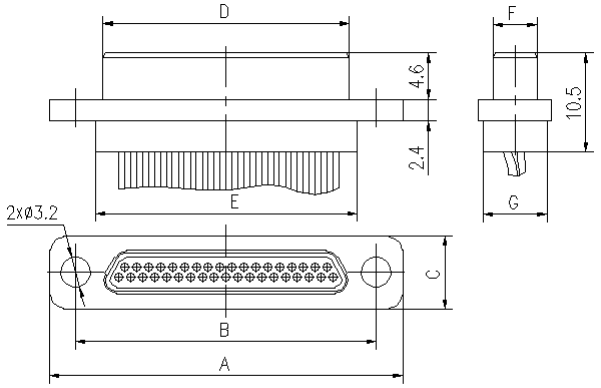
Overall and Installation Dimensions

J30J crimping wire type J30J-TJ/ZK

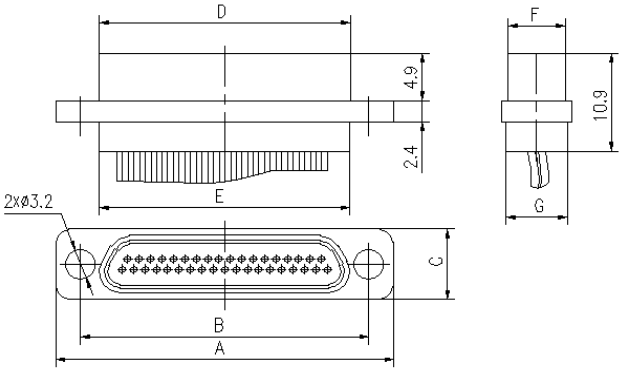
Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TJ	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZK







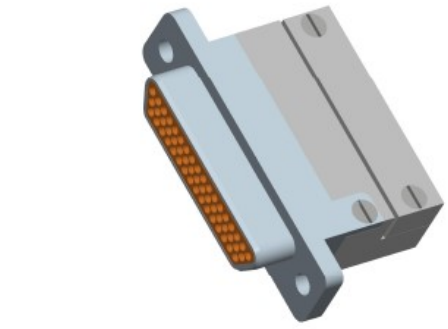
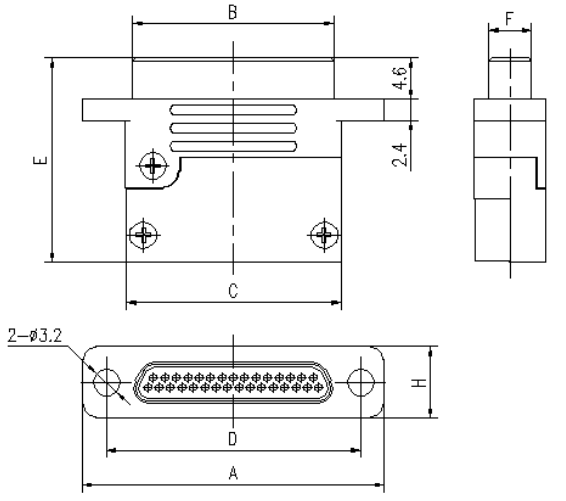
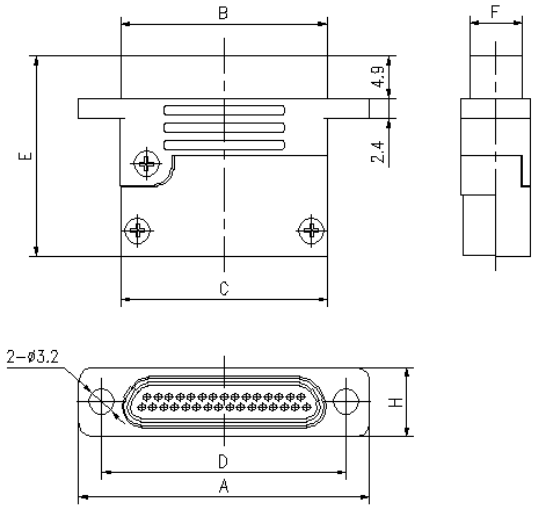
J30J-XXXTJ



J30J-XXXZK

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	27.8			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	
144	66.6	58.6		49	50.6	50.6			

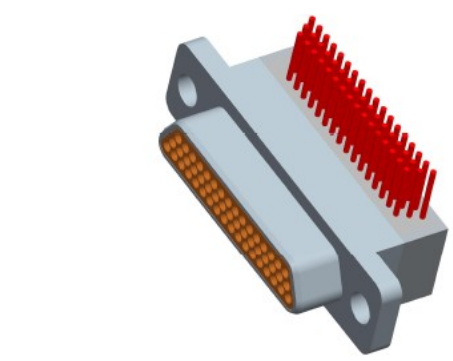
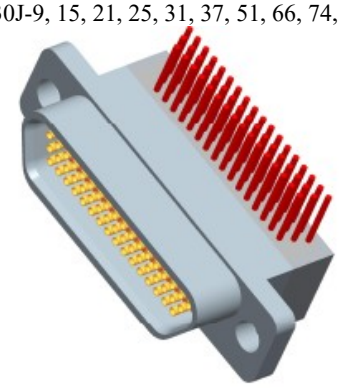
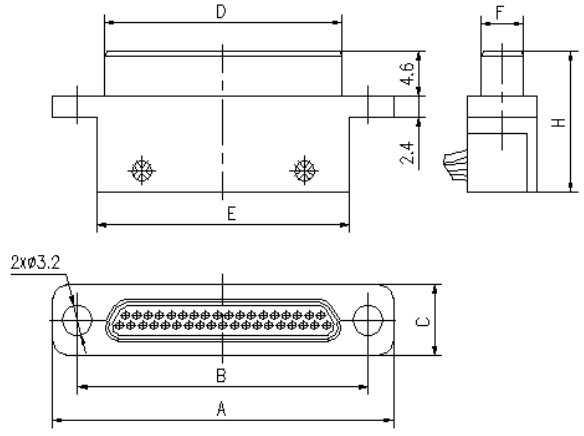
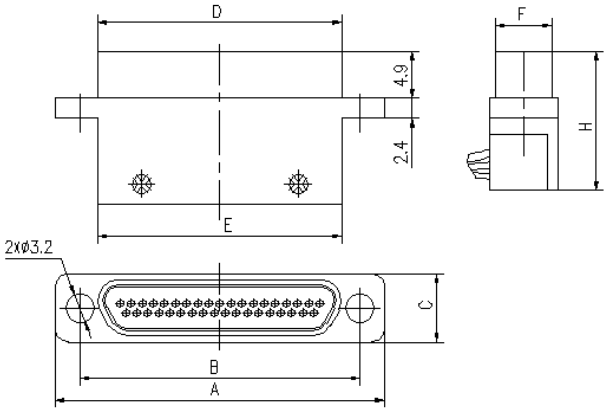
J30J Extended J30J-TJ/ZK-A (with shielding clamp assembly)

Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TJ-A	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZK-A
	
	
J30J-XXXTJ-A	J30J-XXXZK-A

Number of cores	A (mm)	B (mm)		C (mm)	D (mm)	E (mm)		F (mm)		H (mm)
		Plug	Socket			Plug	Socket	Plug	Socket	
9	19.6	8.3	9.8	9.9	14.35	22.6	22.9	4.7	6.1	8
15	23.5	12.3	13.7	13.8	18.16					
21	27.4	16	17.4	17.6	21.97		23			
25	29.8	18.6	20	20.2	24.51					
31	33.6	22.4	23.8	24	28.32					
37	37.4	26.3	27.7	27.8	32.13					
51	36.4	25	26.5	26.6	30.86			5.8	7.2	9
66	42.9	31.4	32.9	33	37.3					
74	38.8	27.5	29	29.1	33.5	24.7	25.2	6.8	8.3	11
100	54.7	35	36.6	36.6	45.72	25			8.2	
144	66.6	49	50.6	50.6	58.6					

J30J crimp extended J30J-TJ/ZK-C

Crimping product where the wire-throwing direction of the tail end wire is perpendicular to the butt joint direction of the product.

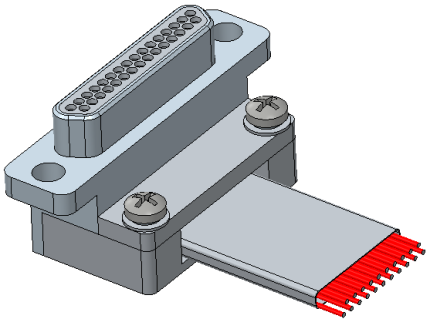
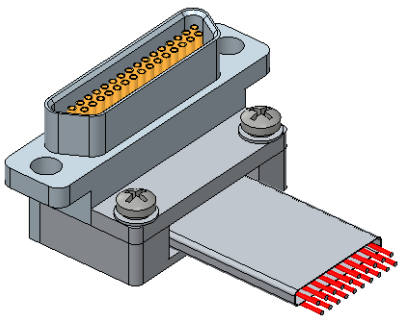
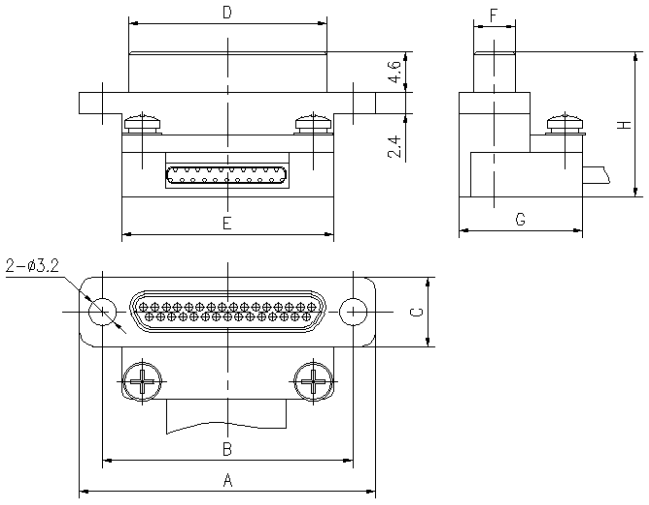
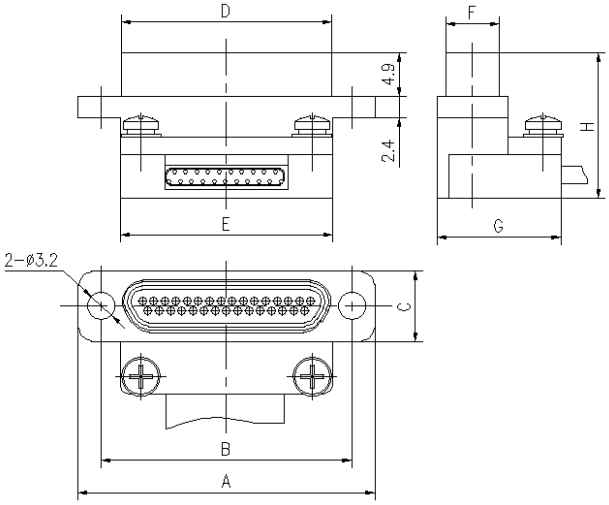
Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100TJ-C	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100ZK-C
	
 J30J-XXXTJ-C	 J30J-XXXZK-C

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		H (mm)	
				Plug	Socket		Plug	Socket	Plug	Socket
9	19.6	14.35	8	8.3	9.8	9.9	4.7	6.1	16.5	16.9
15	23.5	18.16		12.3	13.7	13.8				
21	27.4	21.97		16	17.4	17.6				
25	29.8	24.51		18.6	20	20.2				
31	33.6	28.32		22.4	23.8	24				
37	37.4	32.13		26.3	27.7	27.8				
51	36.4	30.86	9.1	25	26.5	26.6	5.8	7.2	15.5	15.9
66	42.9	37.3		31.4	32.9	33			17.8	18.2
74	38.8	33.5	10.1	27.5	29	29.1	6.8	8.3	19	19.4
100	54.7	45.72		35	36.6	36.6		8.2		

Note: Note that the outgoing direction of J30J-TJ-C plug is opposite to that of J30J-ZK-C socket.

J30J crimp extended J30J-TJ/ZK-C1

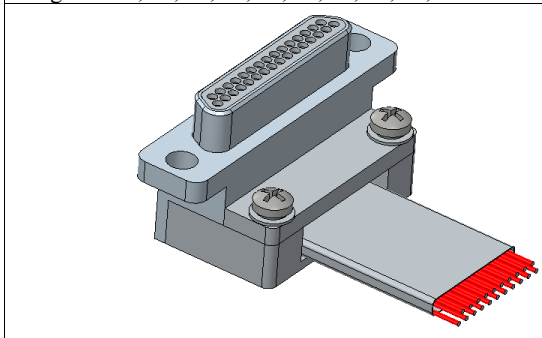
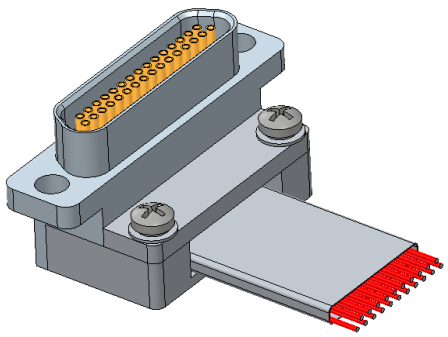
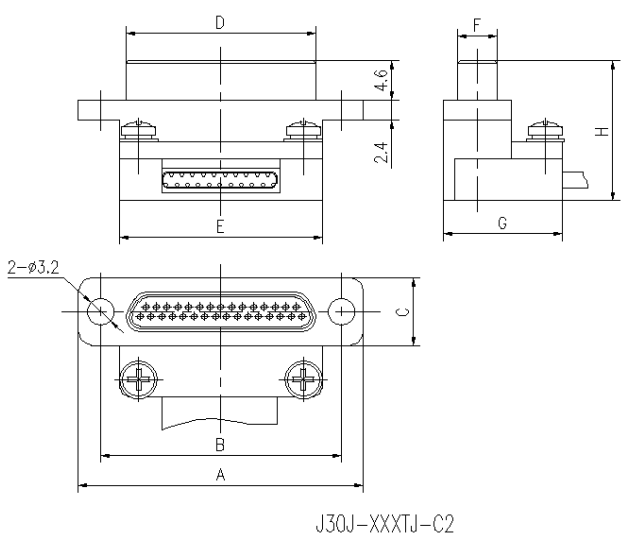
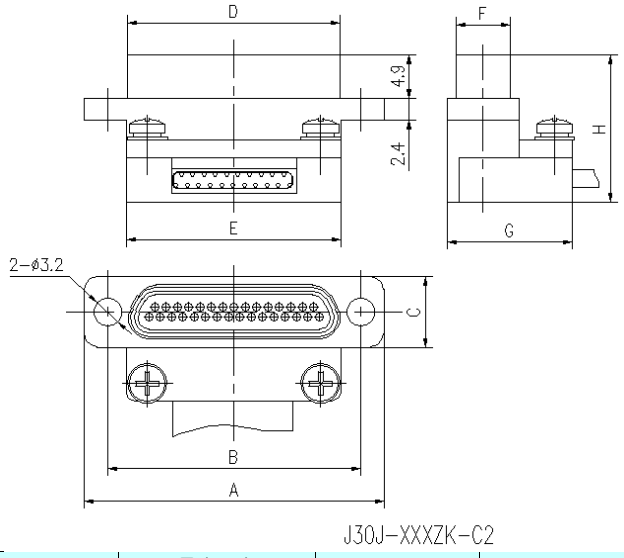
On the basis of the original J30J series crimping products, a curved clamp is added and the wire harness is covered with metal anti-wave sleeve. The outlets of the plug and socket are on the narrow side of the housing. The height of the plug and socket is only 16.5 ~ 19mm, which is especially suitable for the occasions with limited space and shielding requirements. The clamping plate and the housing are fixed by screws.

Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100TJ-C1	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100ZK-C1
	
	
J30J-XXXTJ-C1	J30J-XXXZK-C1

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)	H (mm)
				Plug	Socket		Plug	Socket		
9	19.6	14.35	8	8.3	9.8	9.9	4.7	6.1	14	16.5
15	23.5	18.16		12.3	13.7	13.8				
21	27.4	21.97		16	17.4	17.6				
25	29.8	24.51		18.6	20	20.2				
31	33.6	28.32		22.4	23.8	24				
37	37.4	32.13		26.3	27.7	27.8				
51	36.4	30.86	9.1	25	26.5	26.6	5.8	7.2		
66	42.9	37.3		31.4	32.9	33				
74	38.8	33.5	10.1	27.5	29	29.1	6.8	8.3	18.3	19
100	54.7	45.72		35	36.6	36.6		8.2		

J30J crimp extended J30J-TJ/ZK-C2

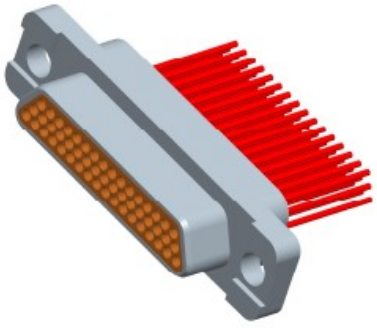
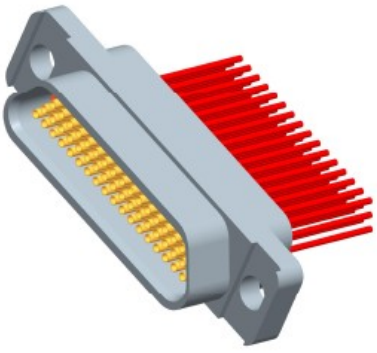
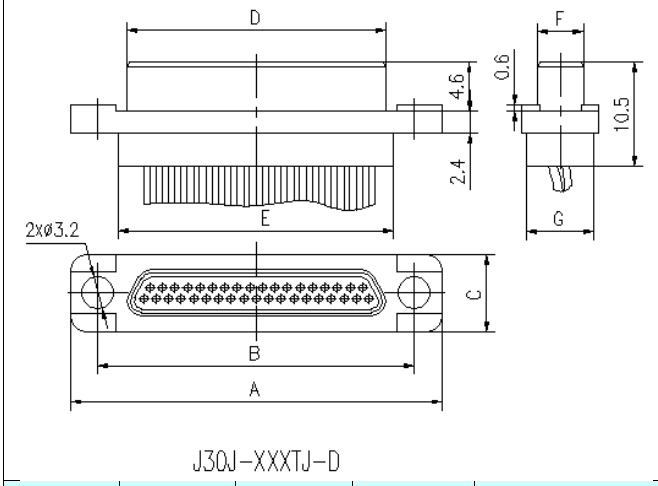
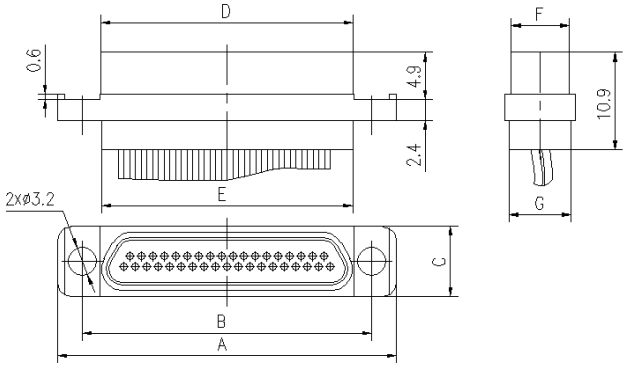
The direction of outlet of plug and socket is opposite to that of J30J-C1.

Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100TJ-C2	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100ZK-C2
	
	

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)	H (mm)
				Plug	Socket		Plug	Socket		
9	19.6	14.35	8	8.3	9.8	9.9	4.7	6.1	14	16.5
15	23.5	18.16		12.3	13.7	13.8				
21	27.4	21.97		16	17.4	17.6				
25	29.8	24.51		18.6	20	20.2				
31	33.6	28.32		22.4	23.8	24				
37	37.4	32.13		26.3	27.7	27.8				
51	36.4	30.86	9.1	25	26.5	26.6	5.8	7.2		
66	42.9	37.3		31.4	32.9	33				
74	38.8	33.5	10.1	27.5	29	29.1	6.8	8.3	18.3	19
100	54.7	45.72		35	36.6	36.6		8.2		

J30J crimp extended J30J-TJ/ZK-D

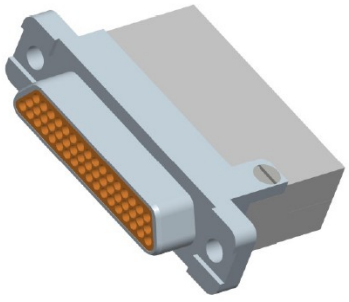
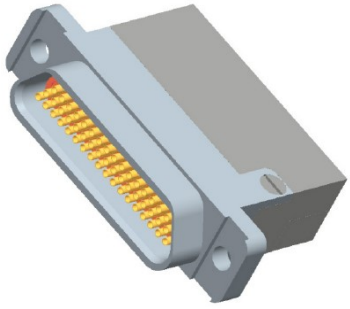
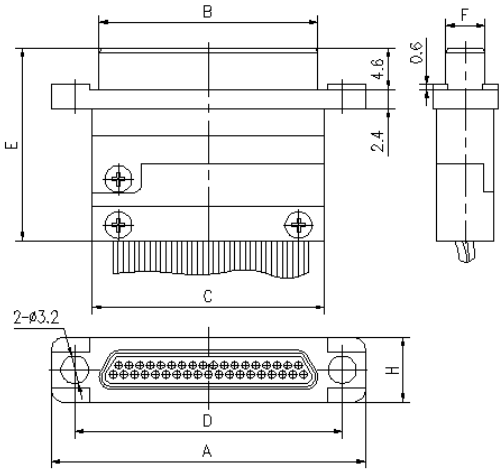
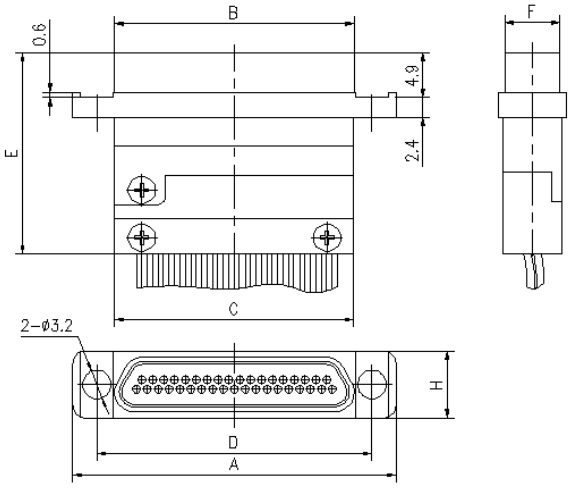
Crimping product where the housing flange is grooved to prevent the mounting screws from turning.

Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100TJ-D	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100ZK-D
	
 J30J-XXXTJ-D	 J30J-XXXZK-D

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	27.8			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	

J30J extended J30J- TJ/ZK-AD

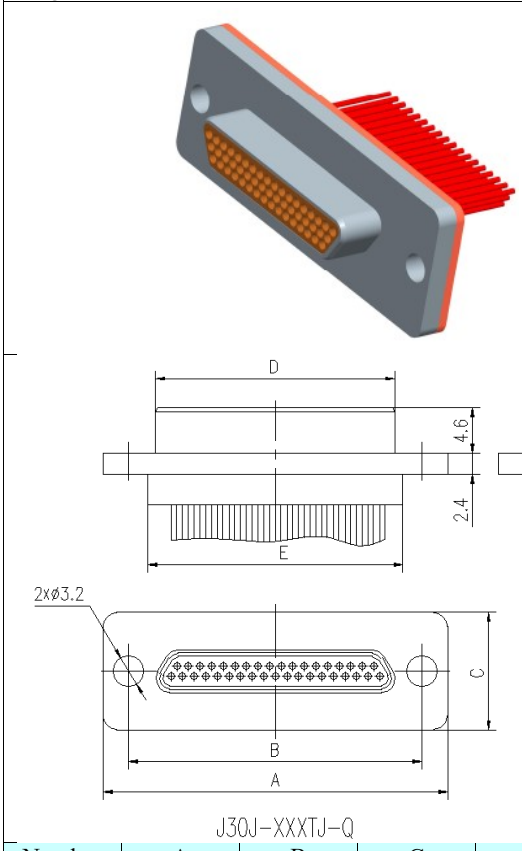
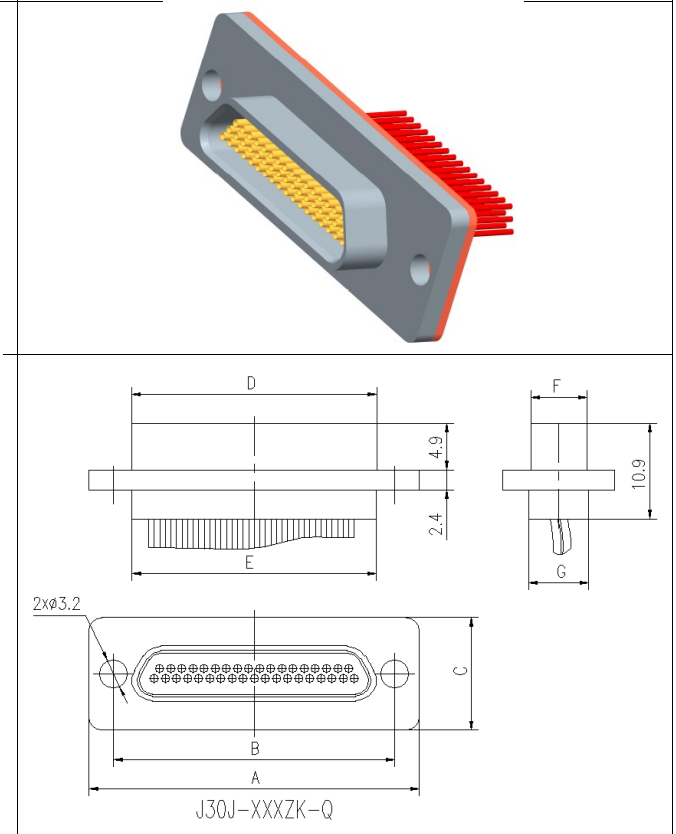
Crimping product where the tail end of the housing is provided with a shielding mesh clamp, and the housing flange is grooved to prevent the mounting screws from turning.

Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TJ-AD	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZK-AD
	
	
J30J-XXXTJ-AD	J30J-XXXZK-AD

Number of cores	A (mm)	B (mm) Plug	B (mm) Socket	C (mm)	D (mm)	E (mm) Plug	E (mm) Socket	F (mm) Plug	F (mm) Socket	H (mm)
9	19.6	8.3	9.8	9.9	14.35	22.6	22.9	4.7	6.1	8
15	23.5	12.3	13.7	13.8	18.16					
21	27.4	16	17.4	17.6	21.97		23			
25	29.8	18.6	20	20.2	24.51					
31	33.6	22.4	23.8	24	28.32					
37	37.4	26.3	27.7	27.8	32.13					
51	36.4	25	26.5	26.6	30.86			5.8	7.2	9
66	42.9	31.4	32.9	33	37.3					
74	38.8	27.5	29	29.1	33.5	24.7	25.1	6.8	8.3	11
100	54.7	35	36.6	36.6	45.72	25			8.2	
144	66.6	49	50.6	50.6	58.6					

J30J crimp extended J30J-TJ/ZK-Q

The length, width and the mounting hole spacing of the housing flange are increased, and the flange-interface gasket (thickness of 1.5mm) is provided.

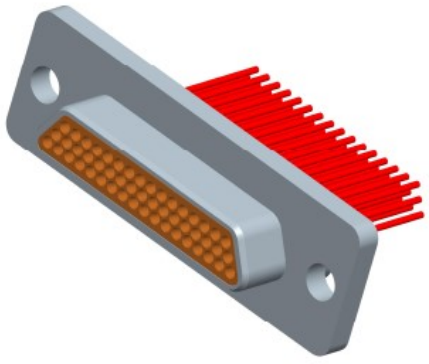
Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TJ	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZK
	

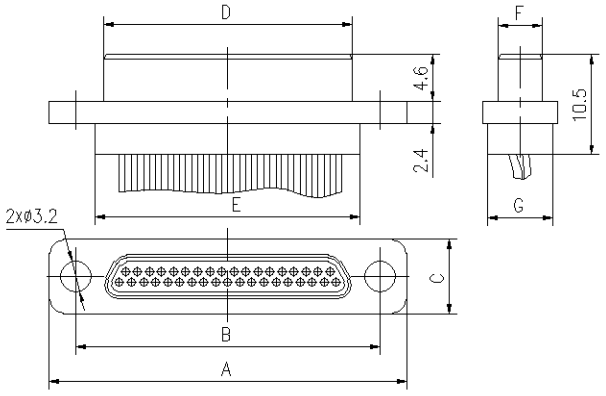
Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	26	21	14	8.3	9.8	9.9	4.7	6.1	6.8
15	29.9	24.9		12.3	13.7	13.8			
21	33.8	28.7		16	17.4	17.6			
25	36.2	31.2		18.6	20	20.2			
31	40	35		22.4	23.8	24			
37	43.8	38.9		26.3	27.7	27.8			
51	42.6	37.6	15.2	25	26.5	26.6	5.8	7.2	7.9
66	49.3	44	15.2	31.4	32.9	33			
74	45.2	40.2	16.1	27.5	29	29.1	6.8	8.3	9.1
100	61.1	52.4		35	36.6	36.6		8.2	
144	73	65.7		49	50.6	50.6			

J30J crimp extended J30J-TJ/ZK-Q8

The length, width and the mounting hole spacing of the housing flange are increased.

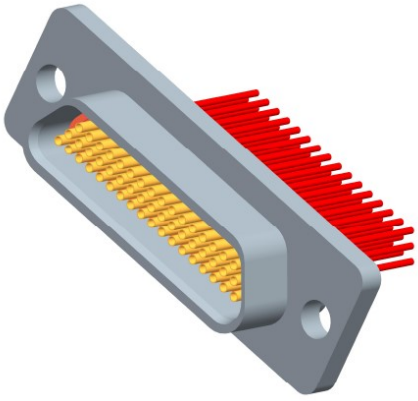
Plug: J30J-9, 15, 21, 25, 31, 37, 51TJ-Q8

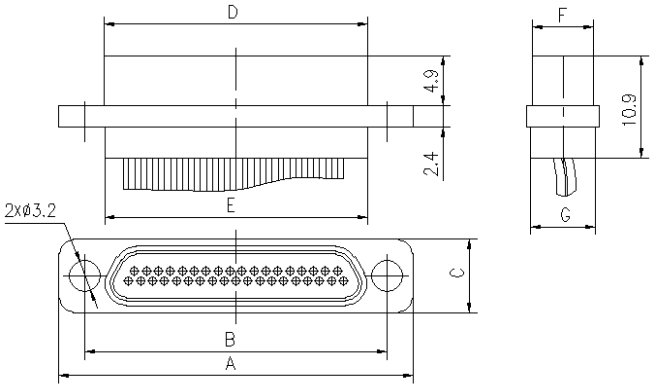




J30J-XXXTJ-Q8

Socket: J30J-9, 15, 21, 25, 31, 37, 51ZK-Q8



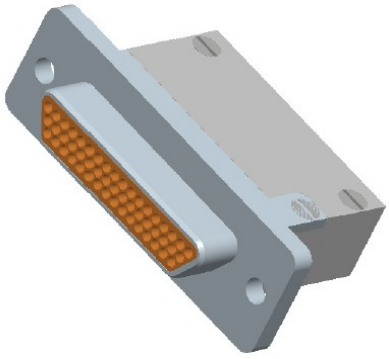
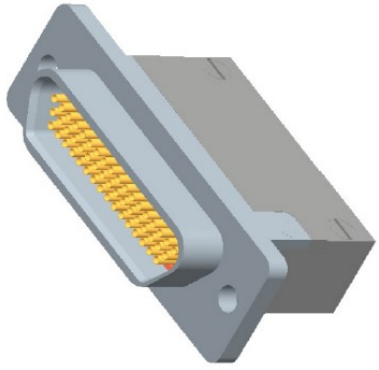
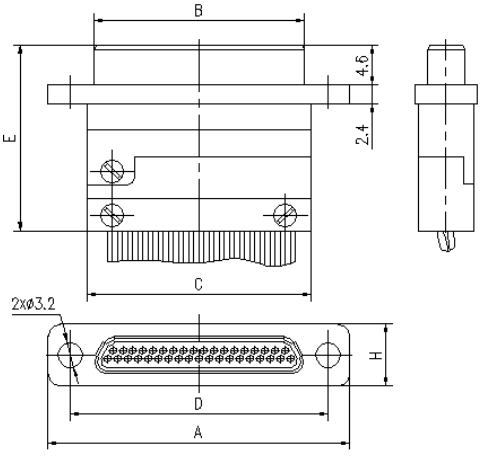
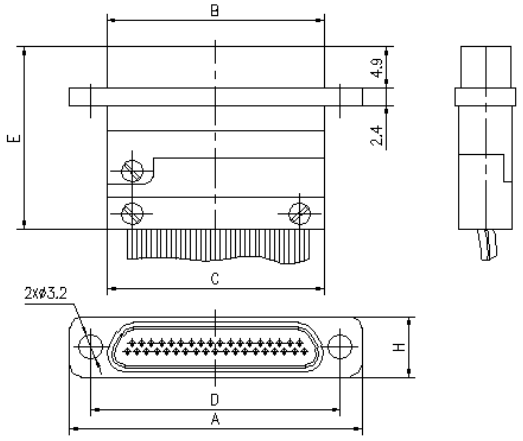


J30J-XXXZK-Q8

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	21.4	16.1	11.6	8.3	9.8	11.7	4.7	6.1	6.8
15	25.3	20		12.3	13.7	15.6			
21	29.2	23.8		16	17.4	19.4			
25	31.6	26.3		18.6	20	22			
31	35.4	30.1		22.4	23.8	25.8			
37	39.2	34		26.3	27.7	29.6			
51	38.2	32.6	12.6	25	26.5	28.4	5.8	7.2	7.9

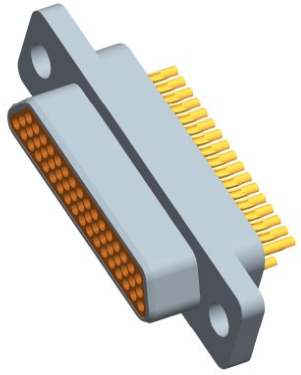
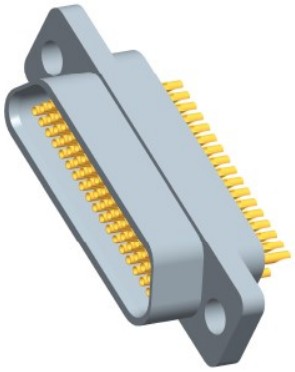
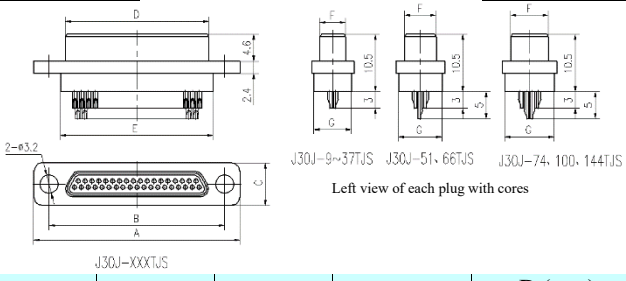
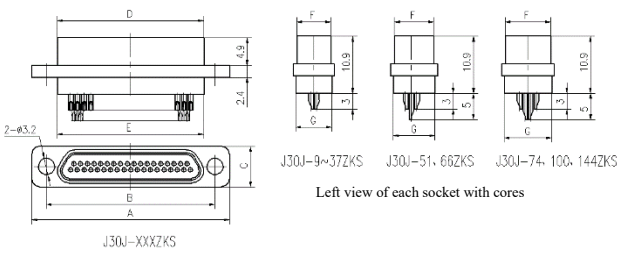
J30J extended J30J-TJ/ZK-AQ8

Crimping product where the tail end of the housing is provided with a shielding mesh clamp, and the length, width and the mounting hole spacing of the flange are increased.

Plug: J30J-9, 15, 21, 25, 31, 37, 51TJ-AQ8	Socket: J30J-9, 15, 21, 25, 31, 37, 51ZK-AQ8
	
 J30J-XXXTJ-AQ8	 J30J-XXXZK-AQ8

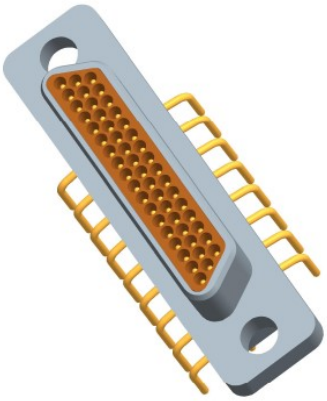
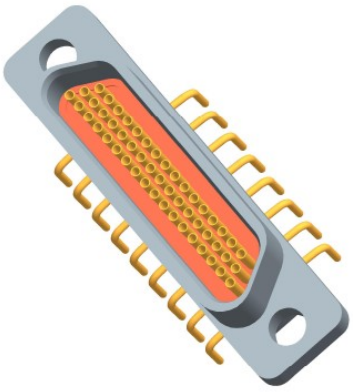
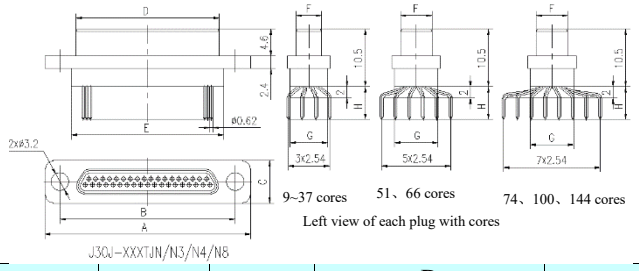
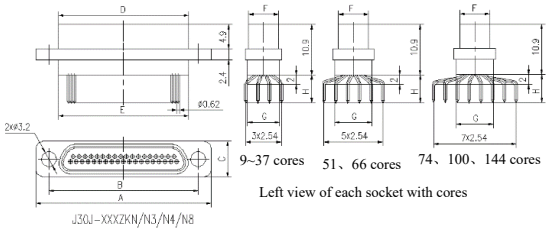
Number of cores	A (mm)	B (mm)		C (mm)	D (mm)	E (mm)		F (mm)		H (mm)
		Plug	Socket			Plug	Socket	Plug	Socket	
9	21.4	8.3	9.8	9.9	16.1	22.6	22.9	4.7	6.1	11.6
15	25.3	12.3	13.7	13.8	20					
21	29.2	16	17.4	17.6	23.8		23			
25	31.6	18.6	20	20.2	26.3					
31	35.4	22.4	23.8	24	30.1					
37	39.2	26.3	27.7	28	34					
51	38.2	25	26.5	26.6	32.6			5.8	7.2	12.6

J30J Basic Welding J30J-TJS/ZKS

Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TJS	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZKS
	
 Left view of each plug with cores	 Left view of each socket with cores

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	27.8			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	
144	66.6	58.6		49	50.6	50.6			

J30J in-line PCB J30J-TJN (N3/N4/N8)/ZKN (N3/N4/N8) (grid spacing 2.54 × 2.54)

Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TJN/N3/N4/N8	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZKN/N3/N4/N8
	
	

Number of cores	A	B	C	D		E	F		G
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	27.8			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	
144	66.6	58.6		49	50.6	50.6			

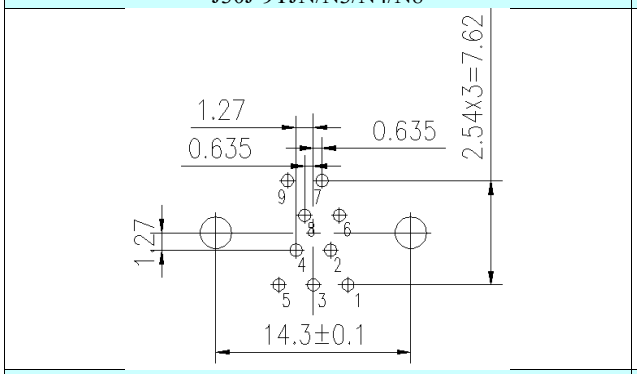
Where H is the lead height and the dimensions are as follows:

Type	N	N3	N4	N8
H	5.7	6.7	7.2	8

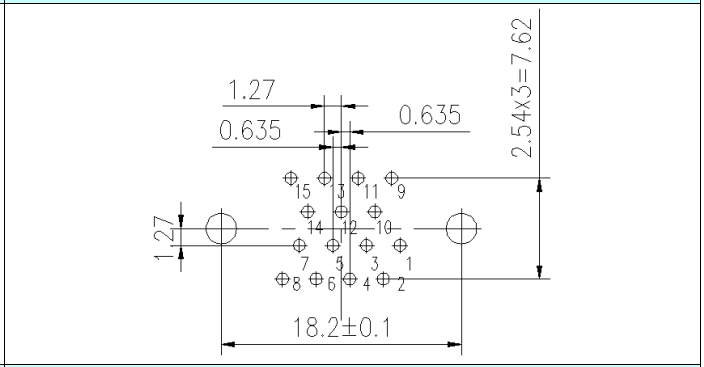
Hole size of J30J series in-line PCB plug (grid spacing 2.54 × 2.54): J30J-XXXTJN/N3/N4/N8;

The hole size of the pin is $\Phi 0.9_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.3_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

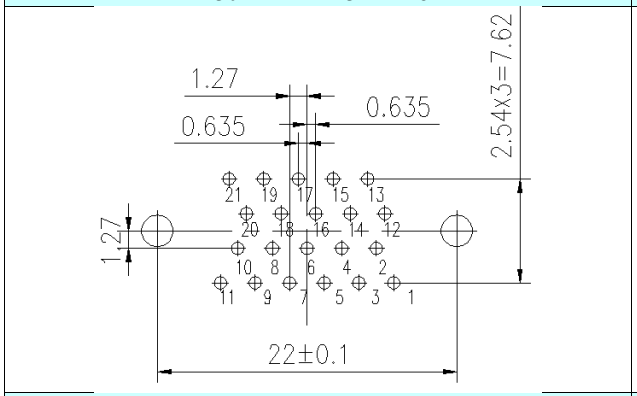
J30J-9TJN/N3/N4/N8



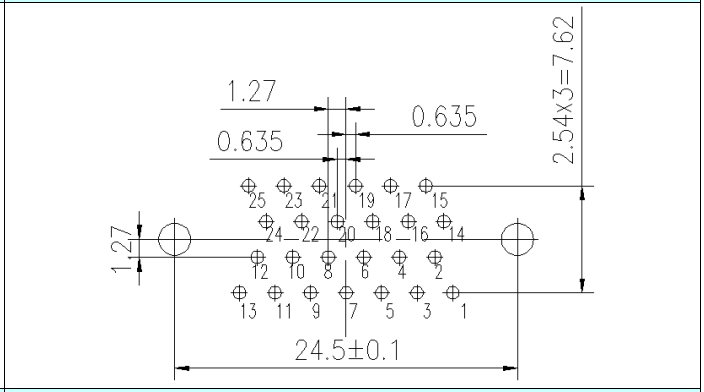
J30J-15TJN/N3/N4/N8



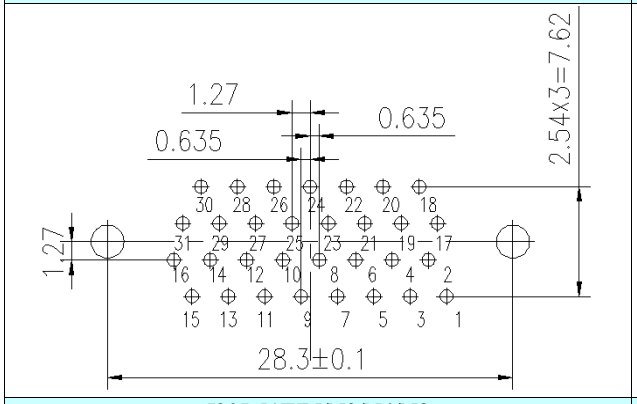
J30J-21TJN/N3/N4/N8



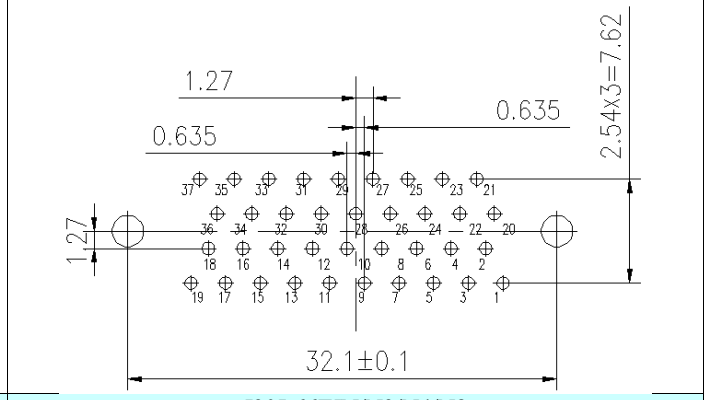
J30J-25TJN/N3/N4/N8



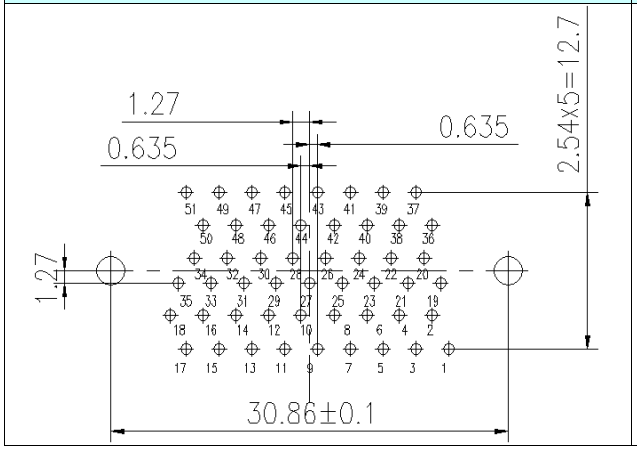
J30J-31TJN/N3/N4/N8



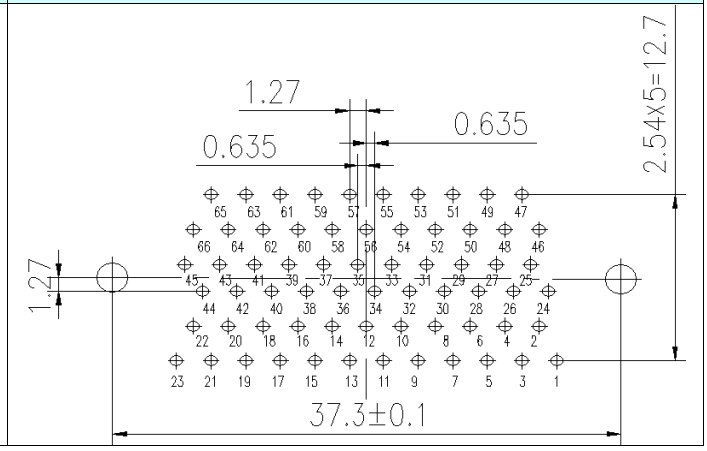
J30J-37TJN/N3/N4/N8



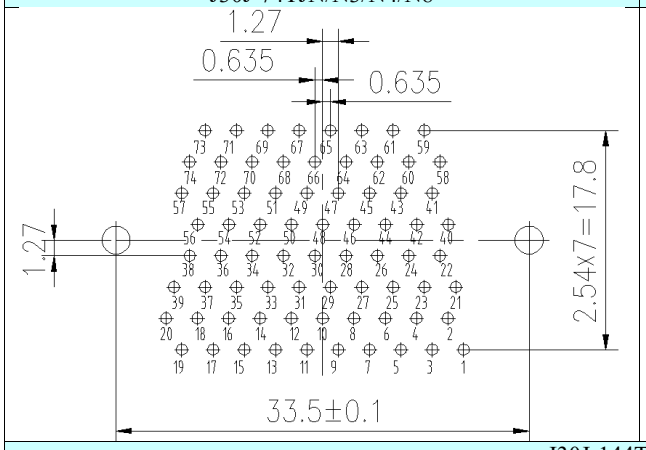
J30J-51TJN/N3/N4/N8



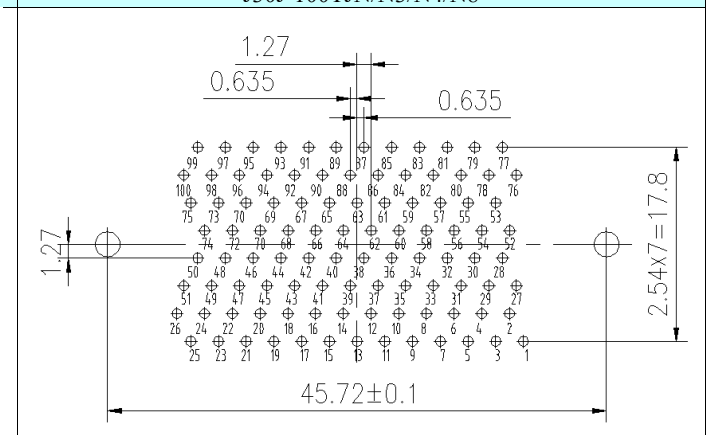
J30J-66TJN/N3/N4/N8



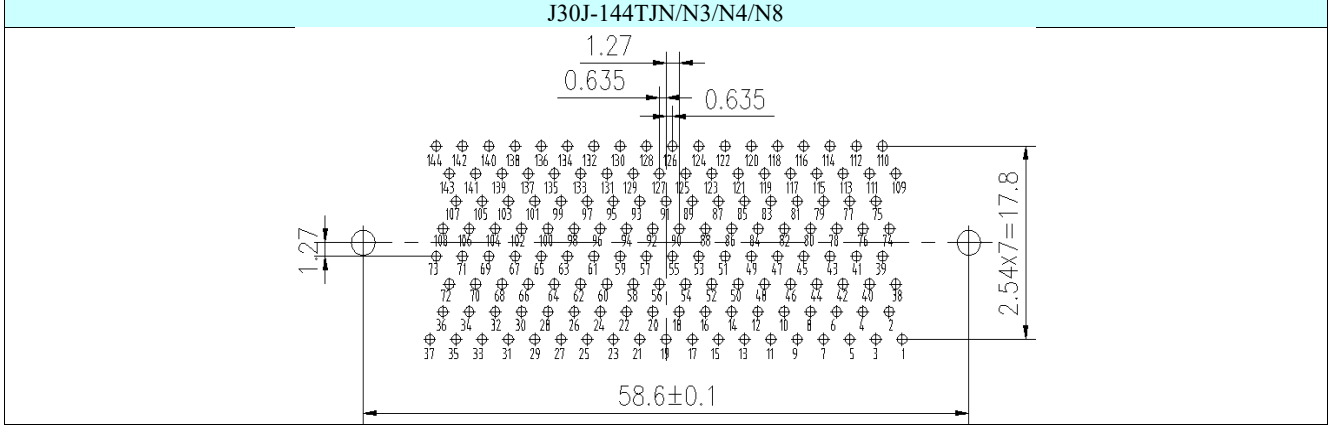
J30J-74TJN/N3/N4/N8



J30J-100TJN/N3/N4/N8



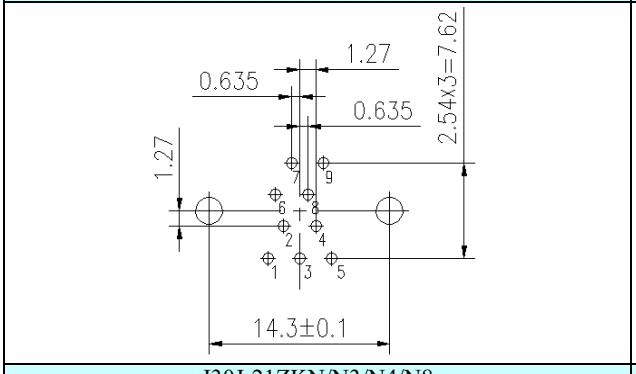
J30J-144TJN/N3/N4/N8



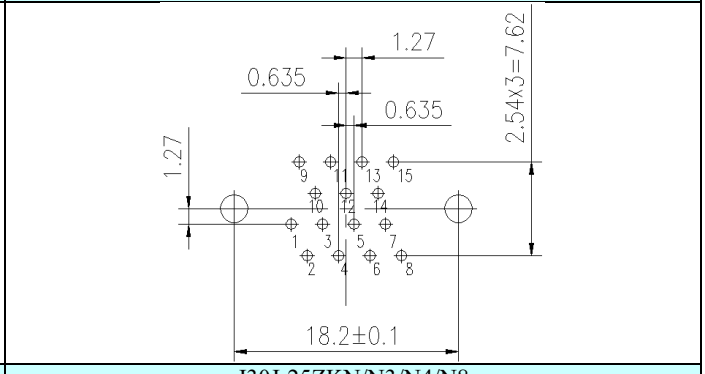
Hole size of J30J series in-line socket (grid spacing 2.54 × 2.54): J30J-XXXZKN/N3/N4/N8;

The hole size of the pin is $\Phi 0.9_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.3_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

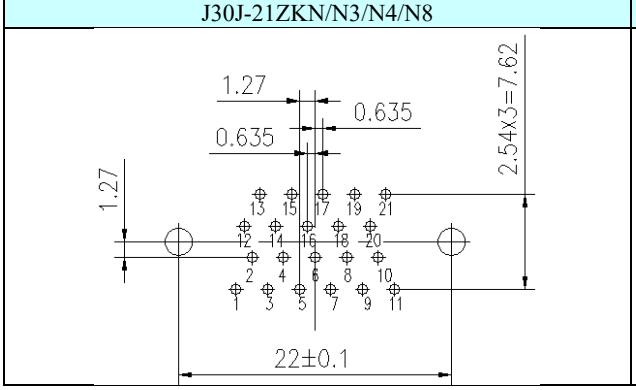
J30J-9ZKN/N3/N4/N8



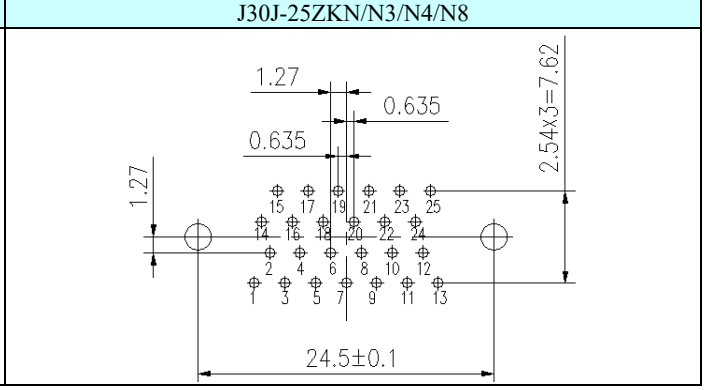
J30J-15ZKN/N3/N4/N8



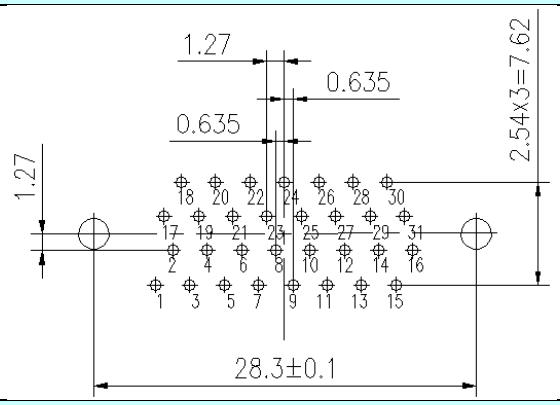
J30J-21ZKN/N3/N4/N8



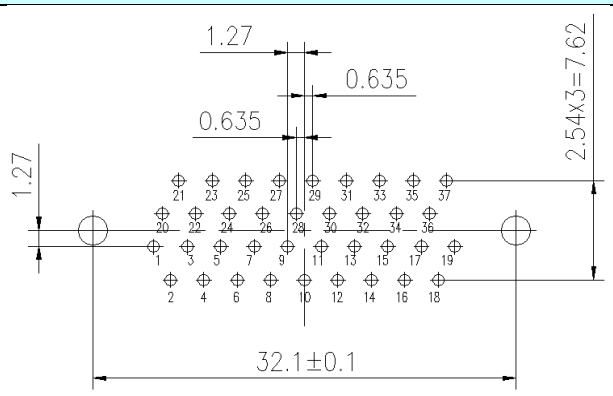
J30J-25ZKN/N3/N4/N8



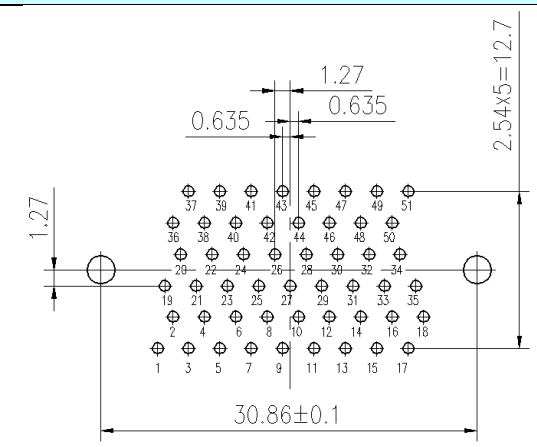
J30J-31ZKN/N3/N4/N8



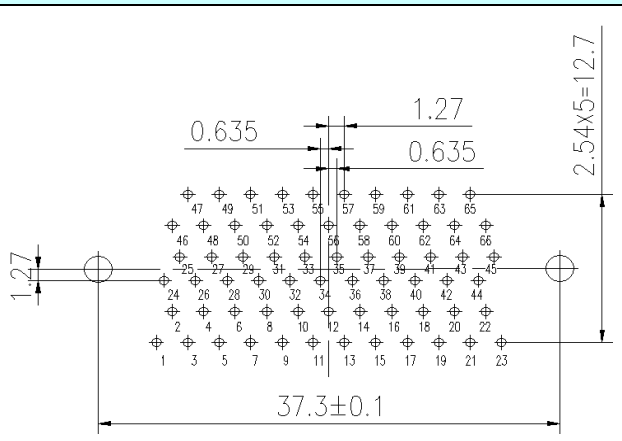
J30J-37ZKN/N3/N4/N8



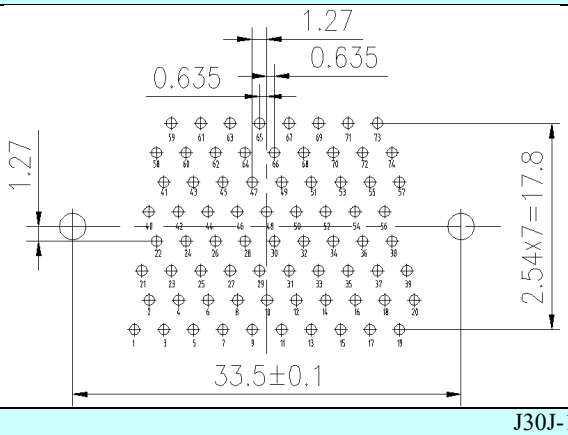
J30J-51ZKN/N3/N4/N8



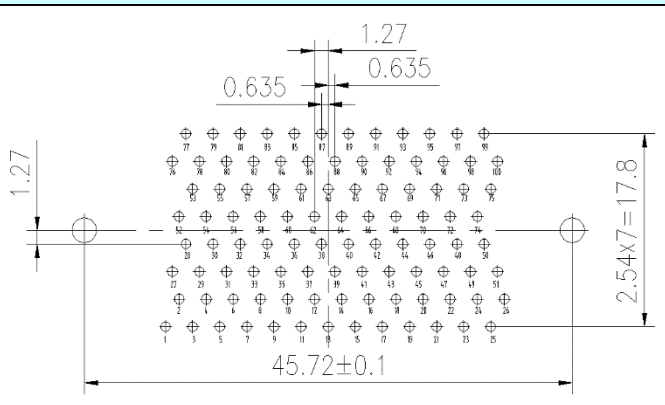
J30J-66ZKN/N3/N4/N8



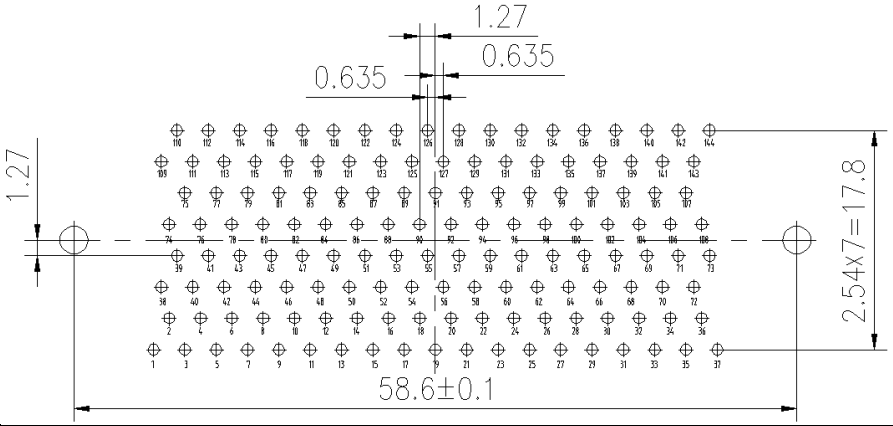
J30J-74ZKN/N3/N4/N8



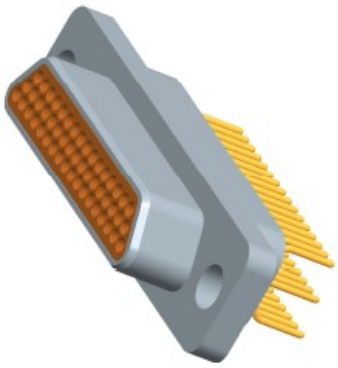
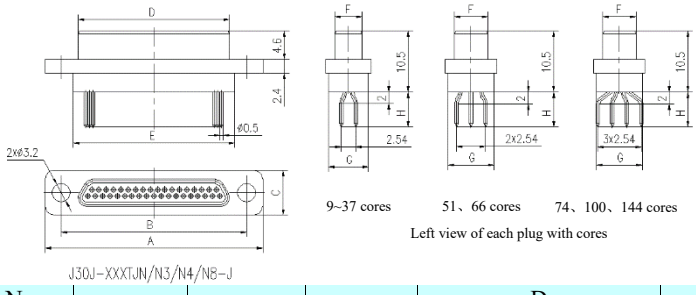
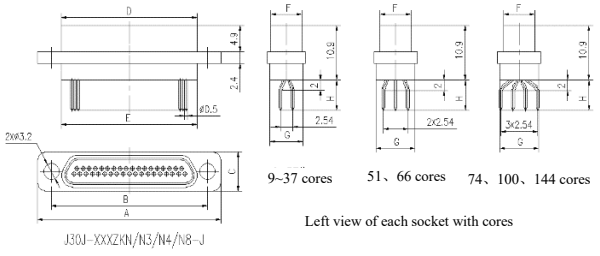
J30J-100ZKN/N3/N4/N8



J30J-144ZKN/N3/N4/N8



J30J in-line PCB J30J-TJN (N3/N4/N8)/ZKN (N3/N4/N8)-J (grid spacing 1.27 × 2.54)

Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TJN/N3/N4/N8-J	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZKN/N3/N4/N8-J
	
	

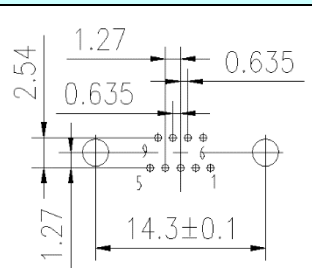
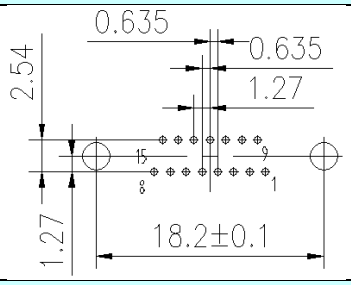
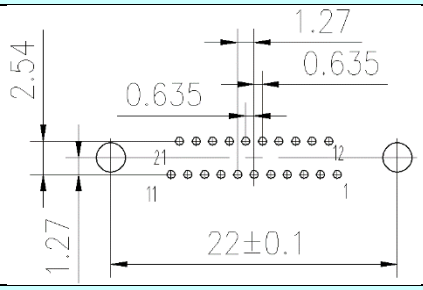
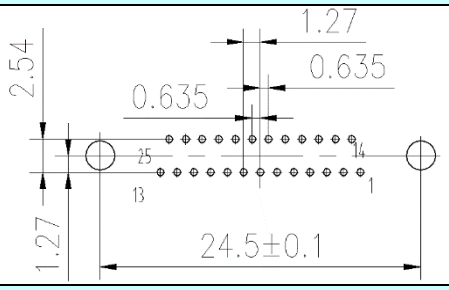
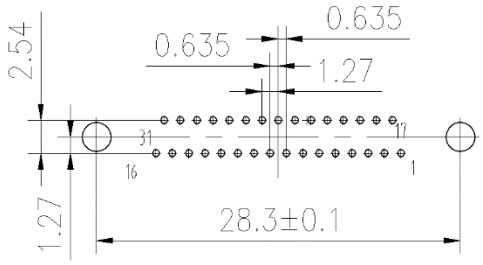
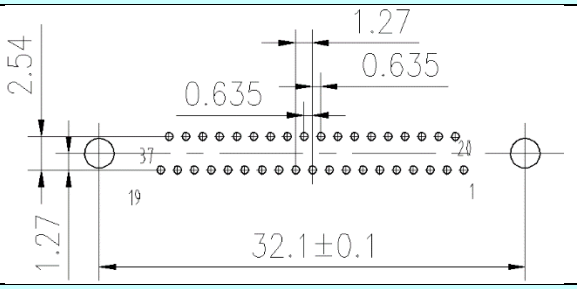
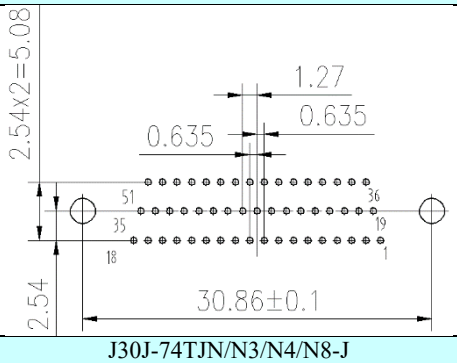
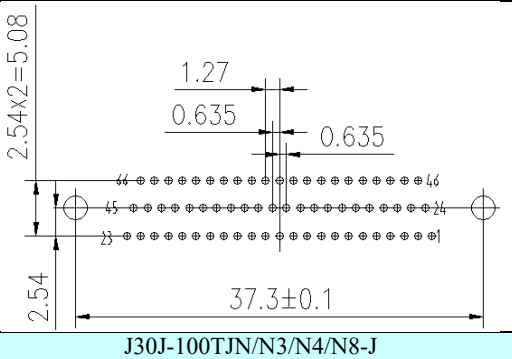
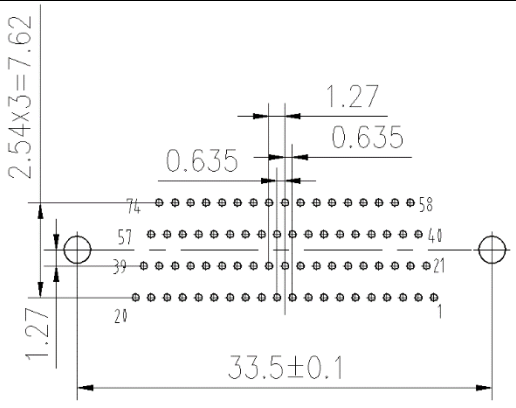
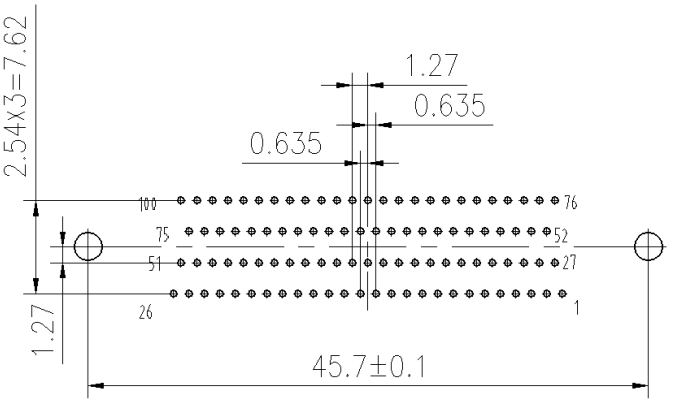
Number of cores	A	B	C	D		E	F		G
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	27.8			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	
144	66.6	58.6		49	50.6	50.6			

Where H is the lead height and the dimensions are as follows:

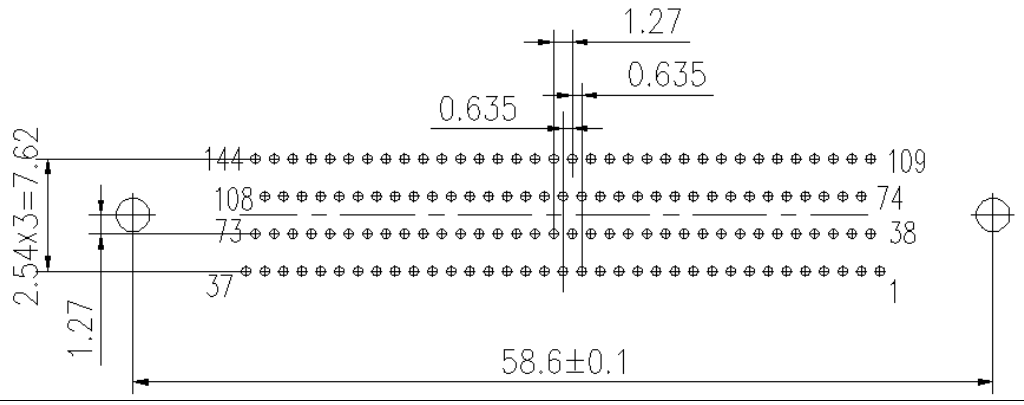
Type	N	N3	N4	N8
H	5.7	6.7	7.2	8

Hole size of J30J series in-line PCB plug (grid spacing 1.27 × 2.54): J30J-XXXTJN/N3/N4/N8-J;

The hole size of the pin is $\Phi 0.7^{+0.1}_{0}$, and the size of the mounting hole is $\Phi 2.3^{+0.1}_{0}$ (viewed from the threading direction of the PCB contact).

J30J-9TJN/N3/N4/N8-J	J30J-15TJN/N3/N4/N8-J
	
J30J-21TJN/N3/N4/N8-J	**J30J-25TJN/N3/N4/N8-J**
	
J30J-31TJN/N3/N4/N8-J	**J30J-37TJN/N3/N4/N8-J**
	
J30J-51TJN/N3/N4/N8-J	**J30J-66TJN/N3/N4/N8-J**
	
J30J-74TJN/N3/N4/N8-J	**J30J-100TJN/N3/N4/N8-J**
	

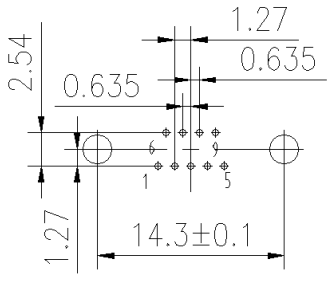
J30J-144TJN/N3/N4/N8-J



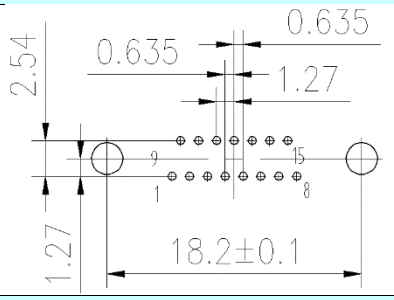
Hole size of J30J series in-line socket (grid spacing 1.27 × 2.54): J30J-XXXZKN/N3/N4/N8-J;

The hole size of the pin is $\Phi 0.7^{+0.1}_{0}$, and the size of the mounting hole is $\Phi 2.3^{+0.1}_{0}$ (viewed from the threading direction of the PCB contact).

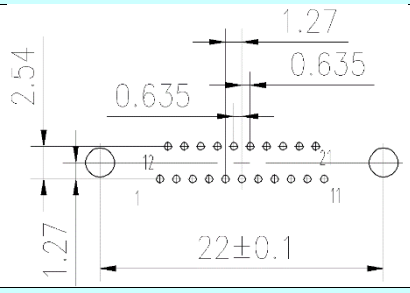
J30J-9ZKN/N3/N4/N8-J



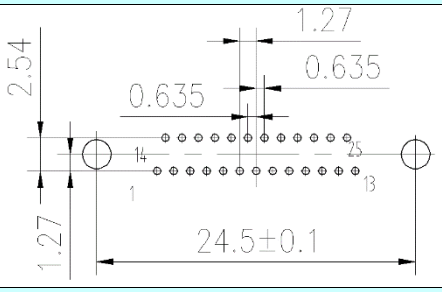
J30J-15ZKN/N3/N4/N8-J



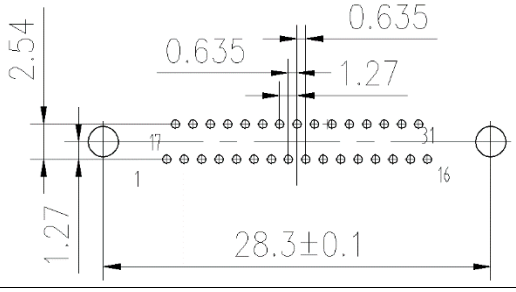
J30J-21ZKN/N3/N4/N8-J



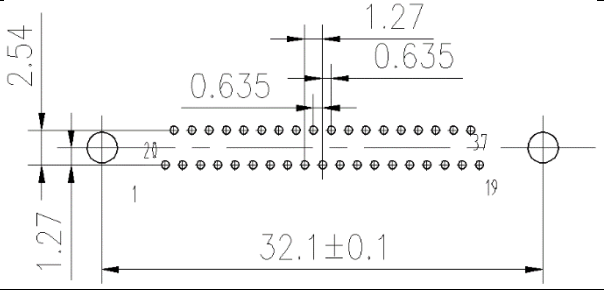
J30J-25ZKN/N3/N4/N8-J



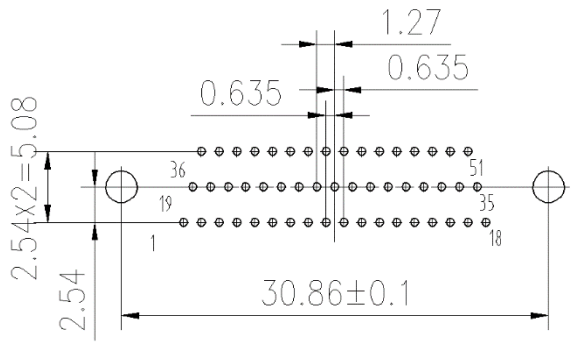
J30J-31ZKN/N3/N4/N8-J



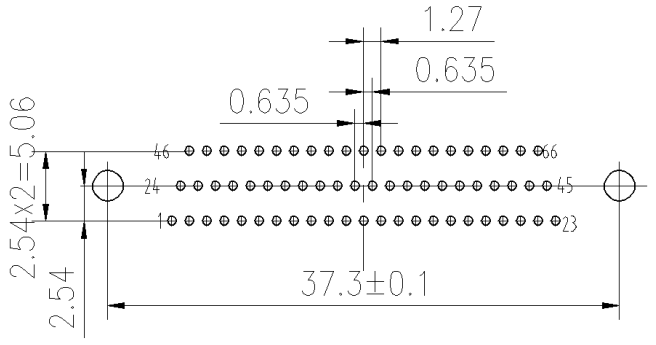
J30J-37ZKN/N3/N4/N8-J



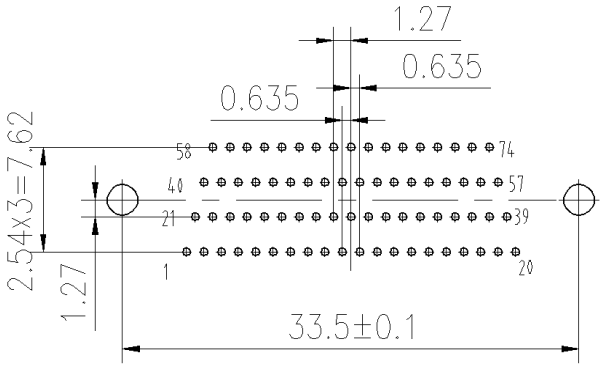
J30J-51ZKN/N3/N4/N8-J



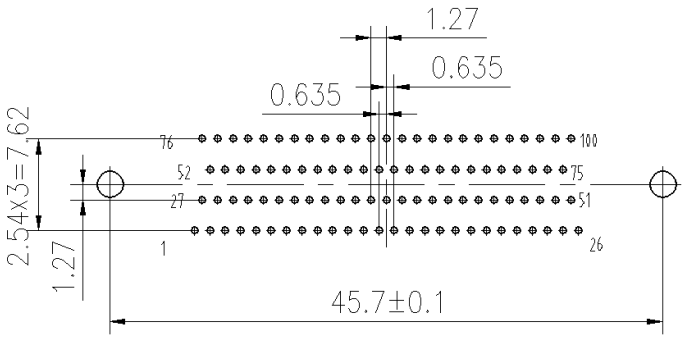
J30J-66ZKN/N3/N4/N8-J



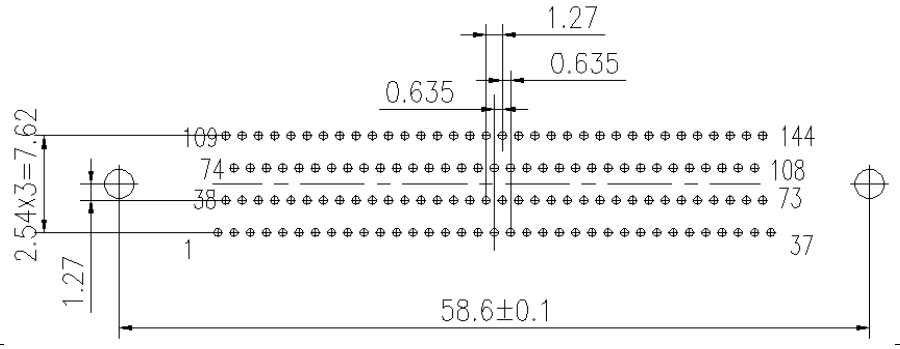
J30J-74ZKN/N3/N4/N8-J



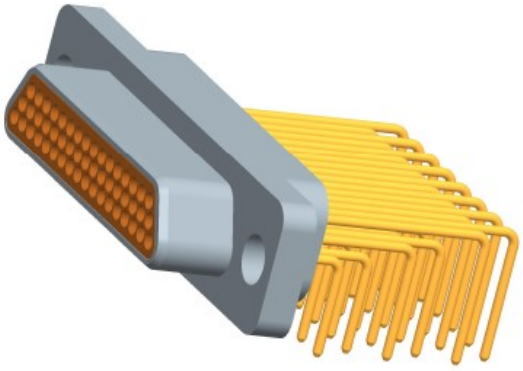
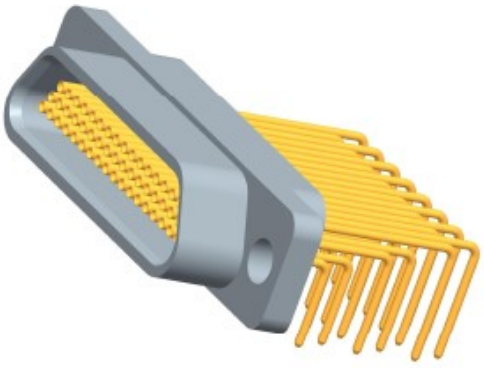
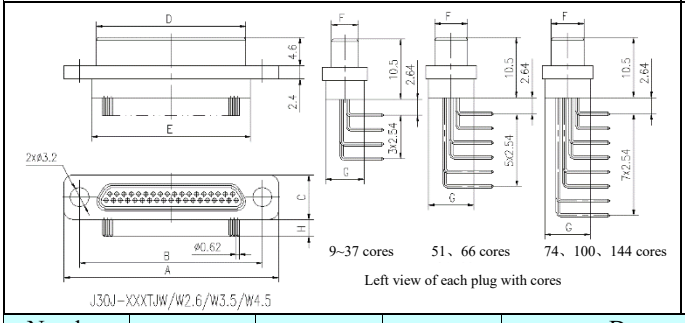
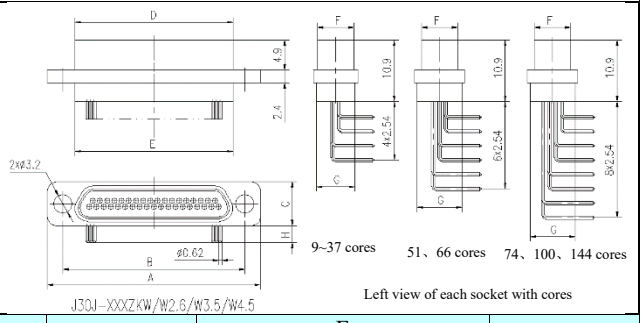
J30J-100ZKN/N3/N4/N8-J



J30J-144ZKN/N3/N4/N8-J



J30J bent PCB J30J-TJW (W2.6/W3.5/W4.5)/ZKW (W2.6/W3.5/W4.5) (grid spacing 2.54 × 2.54)

Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TJW/W2.6/W3.5/W4.5	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZKW/W2.6/W3.5/W4.5
	
 Left view of each plug with cores	 Left view of each socket with cores

Number of cores	A	B	C	D		E	F		G
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	27.8			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	
144	66.6	58.6		49	50.6	50.6			

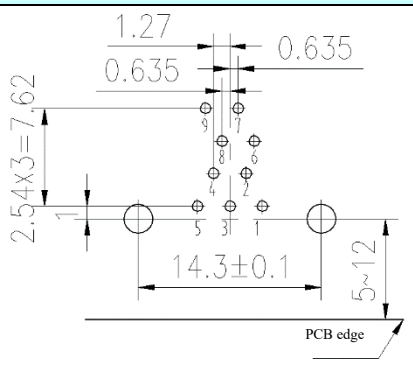
Where H is the height exposed the mounting surface, and the dimensions are as follows:

Type	W	W2.6	W3.5	W4.5
H	3	2.6	3.5	4.5

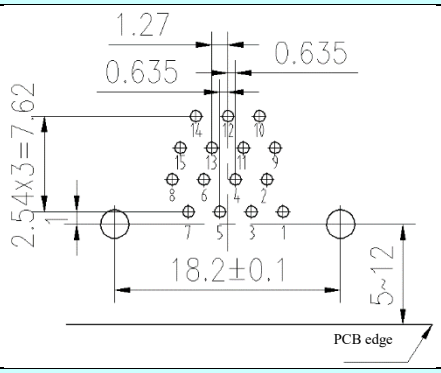
Hole size of J30J series bent PCB plug (grid spacing 2.54 × 2.54): J30J-XXXTJW/W2.6/W3.5/W4.5;

The hole size of the pin is $\Phi 0.9_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.3_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

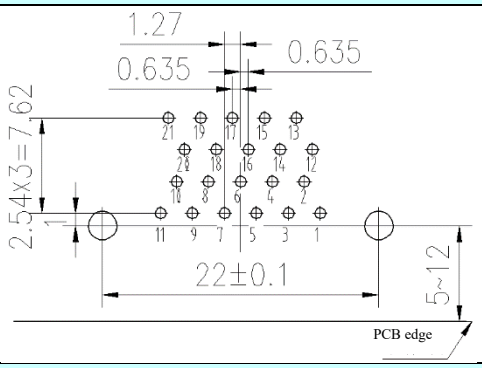
J30J-9TJW/W2.6/W3.5/W4.5



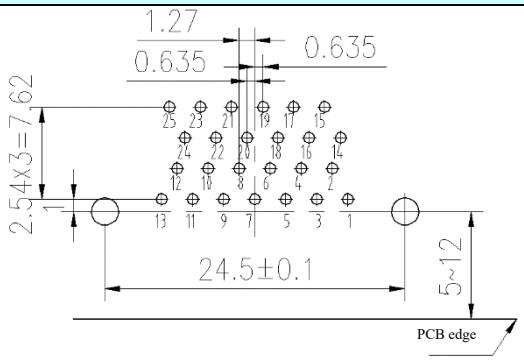
J30J-15TJW/W2.6/W3.5/W4.5



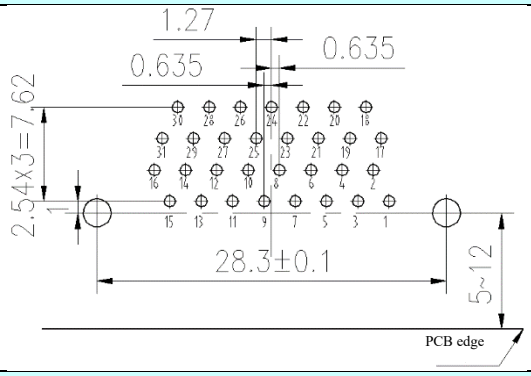
J30J-21TJW/W2.6/W3.5/W4.5



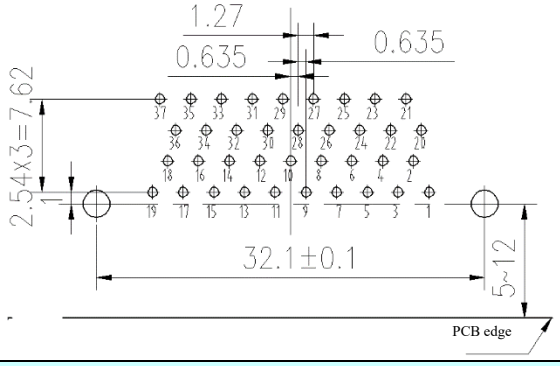
J30J-25TJW/W2.6/W3.5/W4.5



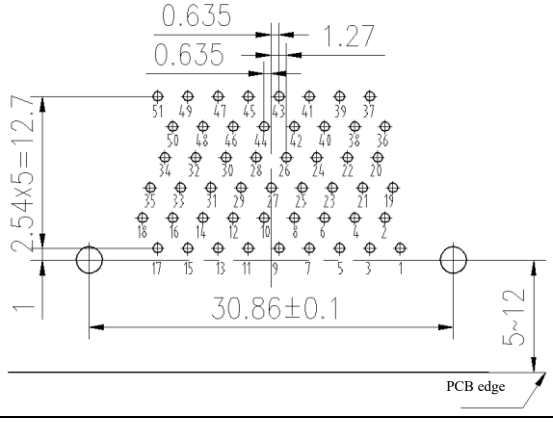
J30J-31TJW/W2.6/W3.5/W4.5



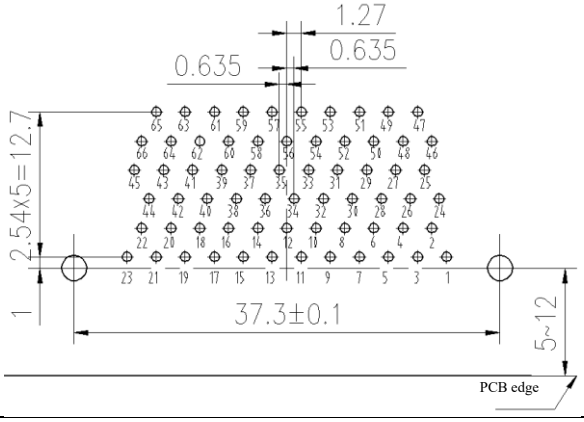
J30J-37TJW/W2.6/W3.5/W4.5



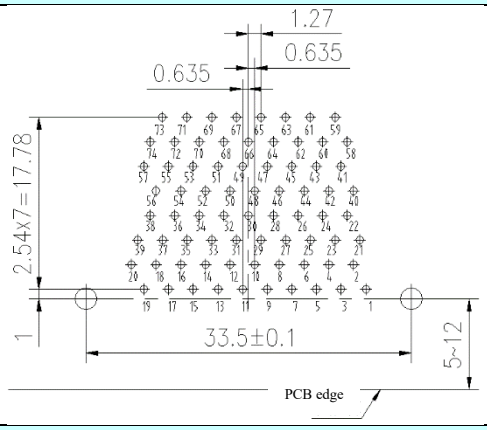
J30J-51TJW/W2.6/W3.5/W4.5



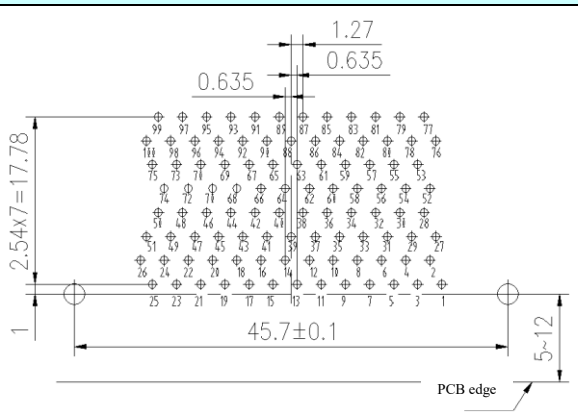
J30J-9TJW/W2.6/W3.5/W4.5



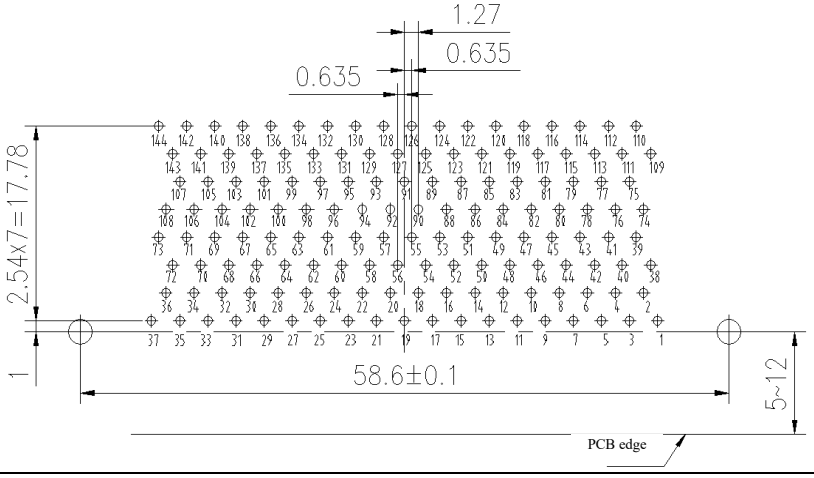
J30J-9TJW/W2.6/W3.5/W4.5



J30J-15TJW/W2.6/W3.5/W4.5



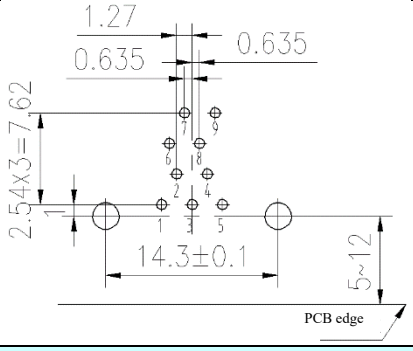
J30J-15TJW/W2.6/W3.5/W4.5



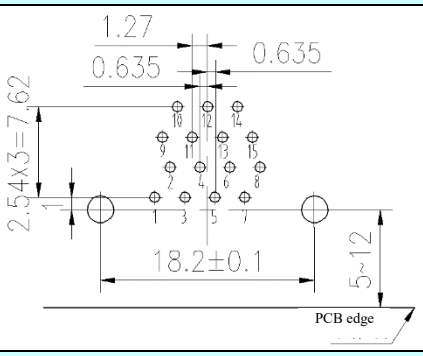
Hole size of J30J series bent socket (grid spacing 2.54 × 2.54): J30J-XXXZKW/W2.6/W3.5/W4.5;

The hole size of the pin is $\Phi 0.9_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.3_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

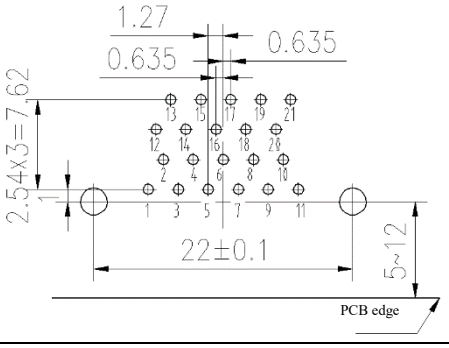
J30J-9ZKW/W2.6/W3.5/W4.5



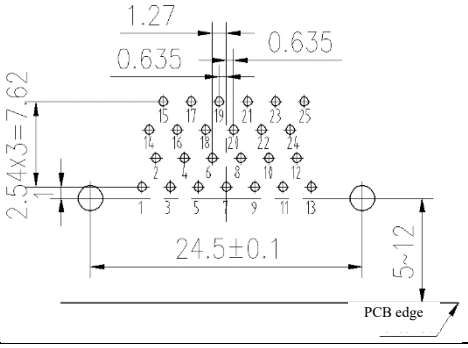
J30J-15ZKW/W2.6/W3.5/W4.5



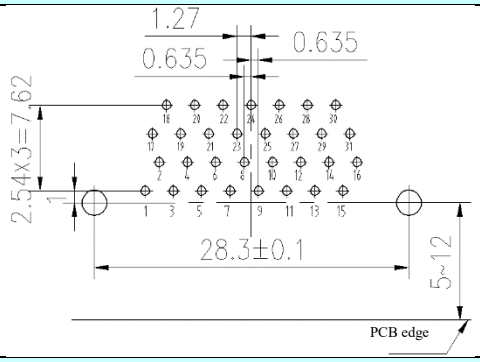
J30J-21ZKW/W2.6/W3.5/W4.5



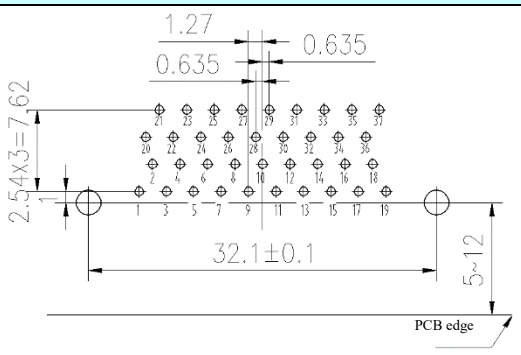
J30J-25ZKW/W2.6/W3.5/W4.5



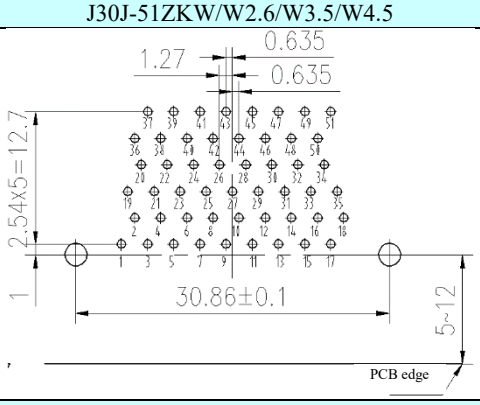
J30J-31ZKW/W2.6/W3.5/W4.5



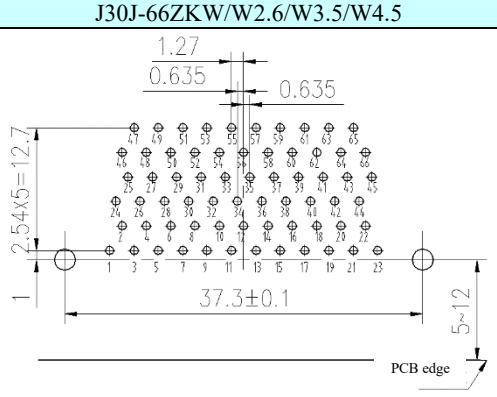
J30J-37ZKW/W2.6/W3.5/W4.5



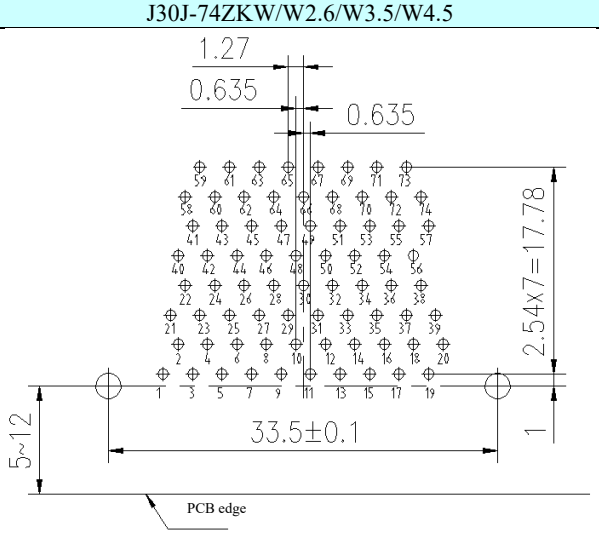
J30J-51ZKW/W2.6/W3.5/W4.5



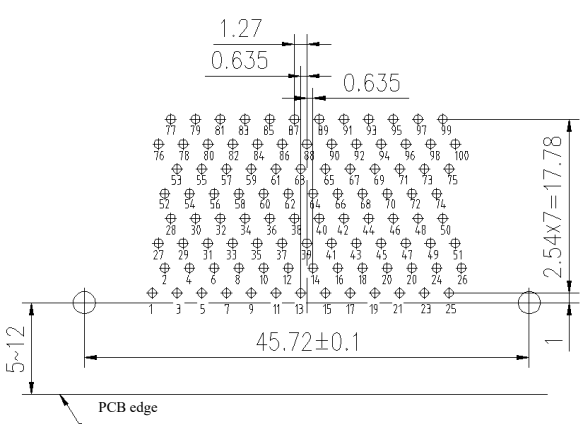
J30J-66ZKW/W2.6/W3.5/W4.5



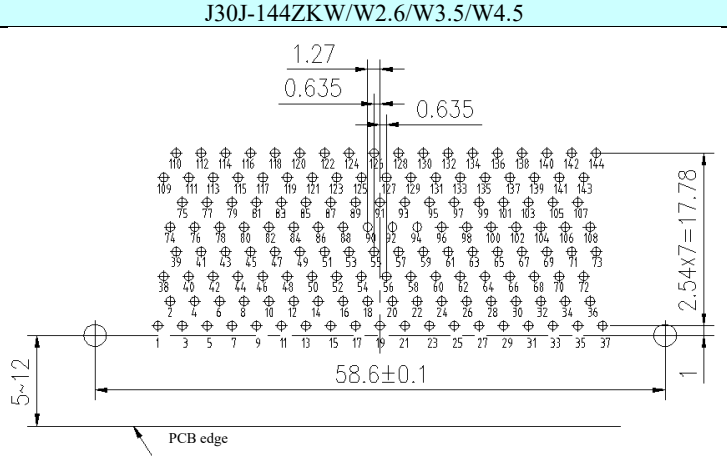
J30J-74ZKW/W2.6/W3.5/W4.5



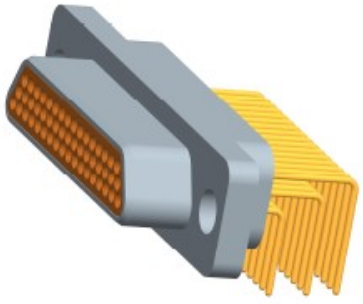
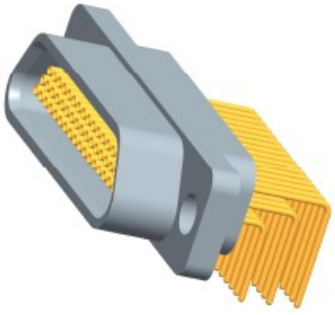
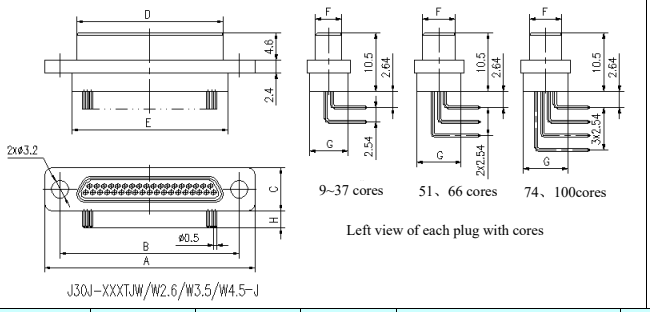
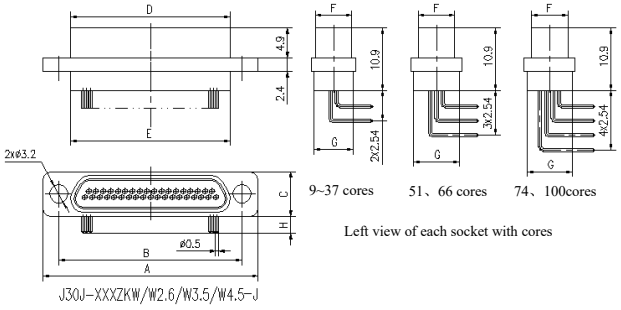
J30J-100ZKW/W2.6/W3.5/W4.5



J30J-144ZKW/W2.6/W3.5/W4.5



J30J bent PCB J30J-TJW (W2.6/W3.5/W4.5)/ZKW (W2.6/W3.5/W4.5)-J (grid spacing 1.27 × 2.54)

Plug: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TJW/W2.6/W3.5/W4.5-J	Socket: J30J-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZKW/W2.6/W3.5/W4.5-J
	
	

Number of cores	A	B	C	D		E	F		G
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	27.8			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	
144	66.6	58.6		49	50.6	50.6			

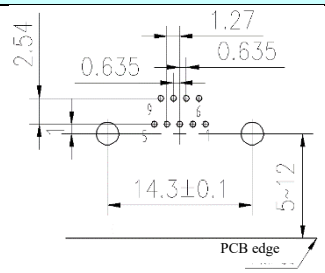
Where H is the height exposed the mounting surface, and the dimensions are as follows:

Type	W	W2.6	W3.5	W4.5
H	3	2.6	3.5	4.5

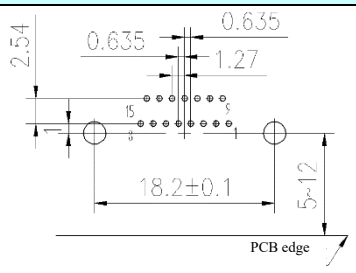
Hole size of J30J series bent PCB plug (grid spacing 1.27 × 2.54): J30J-XXXTJW/W2.6/W3.5/W4.5-J;

The hole size of the pin is $\Phi 0.7_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.3_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

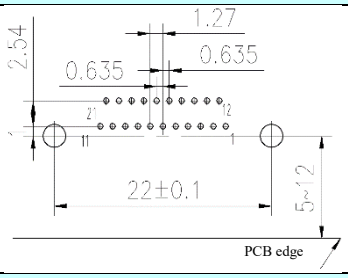
J30J-9TJW/W2.6/W3.5/W4.5-J



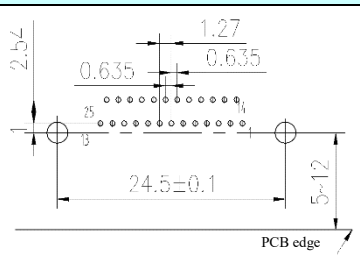
J30J-15TJW/W2.6/W3.5/W4.5-J



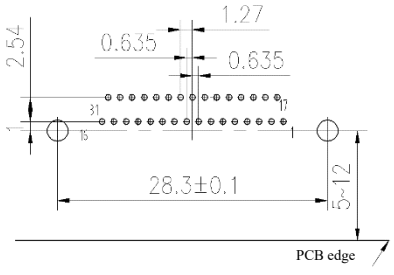
J30J-21TJW/W2.6/W3.5/W4.5-J



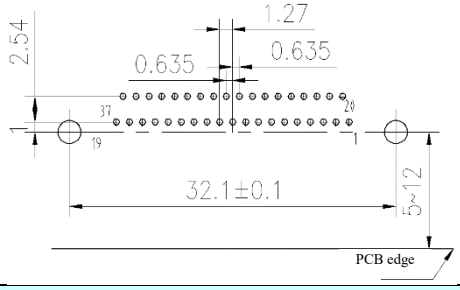
J30J-25TJW/W2.6/W3.5/W4.5-J



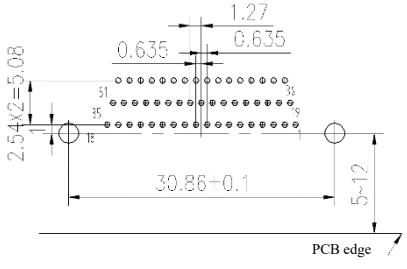
J30J-31TJW/W2.6/W3.5/W4.5-J



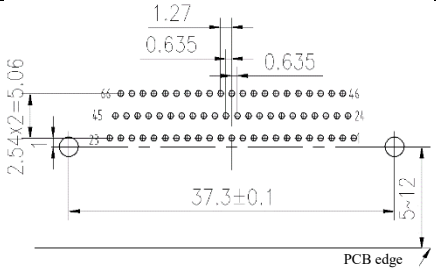
J30J-37TJW/W2.6/W3.5/W4.5-J



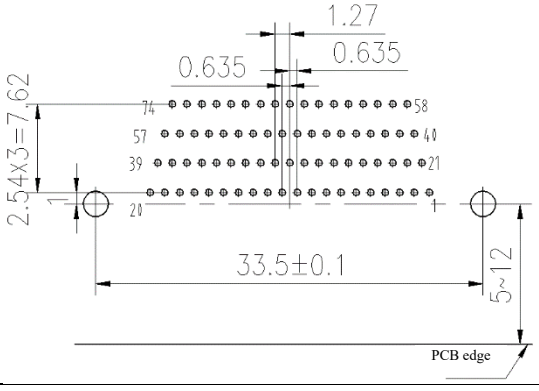
J30J-51TJW/W2.6/W3.5/W4.5-J



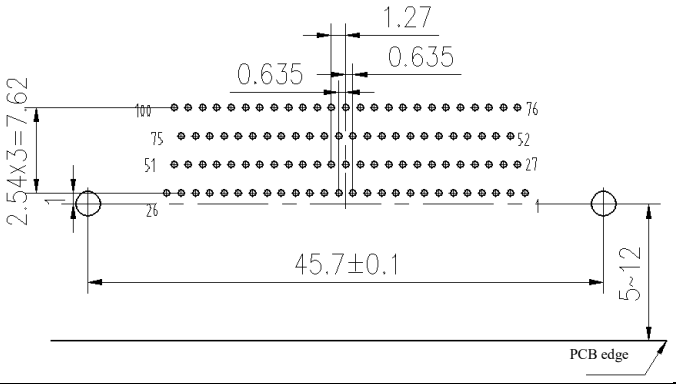
J30J-66TJW/W2.6/W3.5/W4.5-J



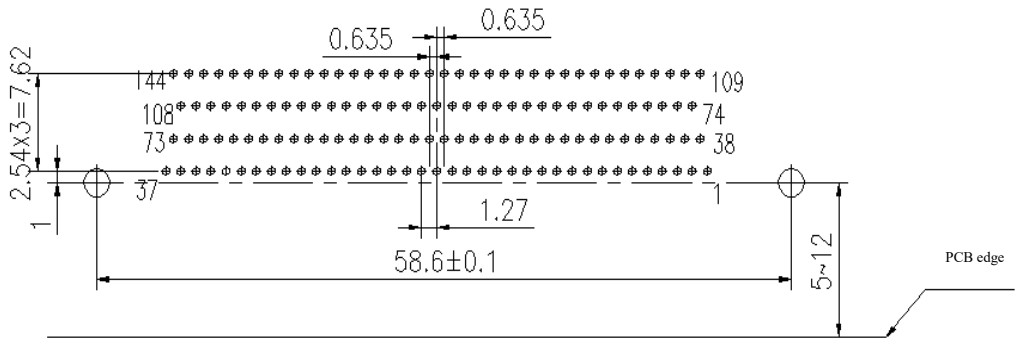
J30J-74TJW/W2.6/W3.5/W4.5-J



J30J-100TJW/W2.6/W3.5/W4.5-J



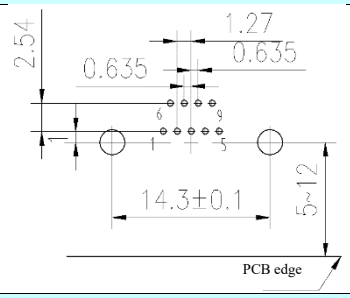
J30J-144TJW/W2.6/W3.5/W4.5-J



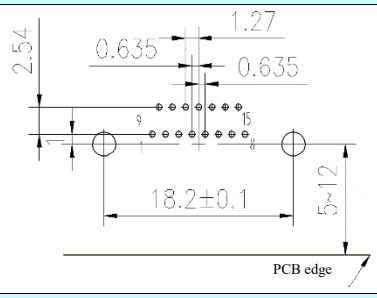
Hole size of J30J series bent socket (grid spacing 1.27 × 2.54): J30J-XXXZKW/W2.6/W3.5/W4.5-J;

The hole size of the pin is $\Phi 0.7_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.3_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

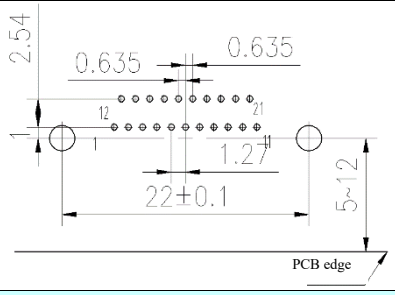
J30J-9ZKW/W2.6/W3.5/W4.5-J



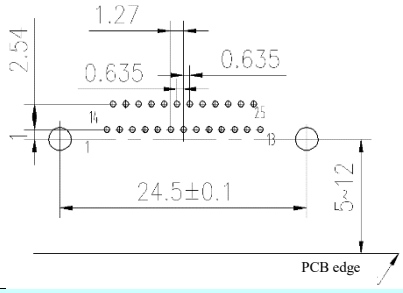
J30J-15ZKW/W2.6/W3.5/W4.5-J



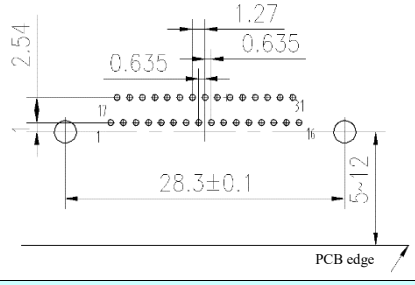
J30J-21ZKW/W2.6/W3.5/W4.5-J



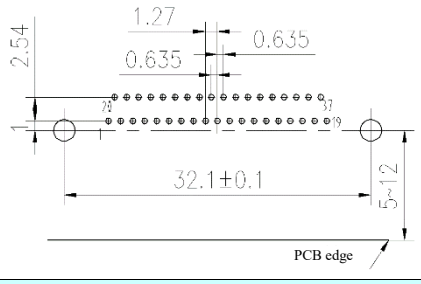
J30J-25ZKW/W2.6/W3.5/W4.5-J



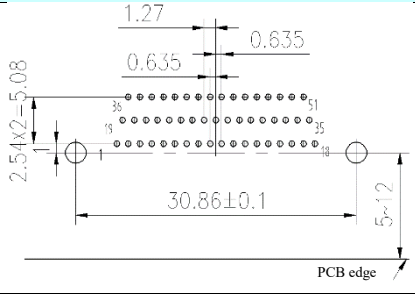
J30J-31ZKW/W2.6/W3.5/W4.5-J



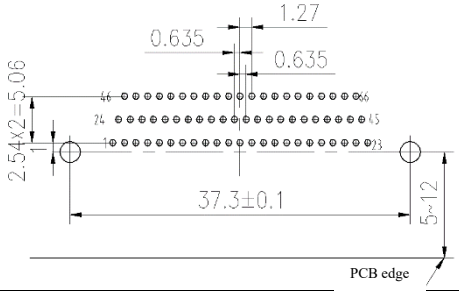
J30J-37ZKW/W2.6/W3.5/W4.5-J



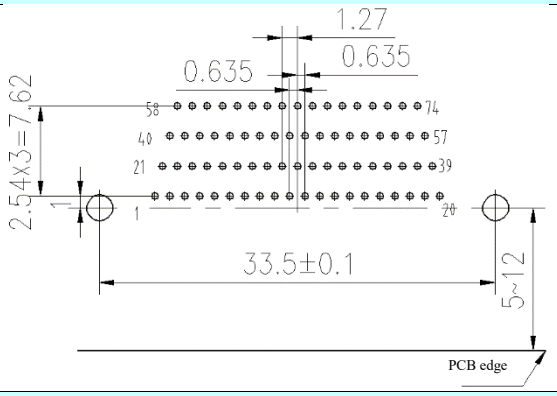
J30J-51ZKW/W2.6/W3.5/W4.5-J



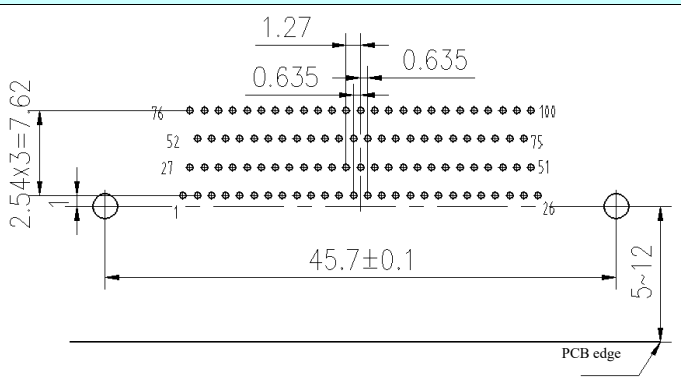
J30J-66ZKW/W2.6/W3.5/W4.5-J



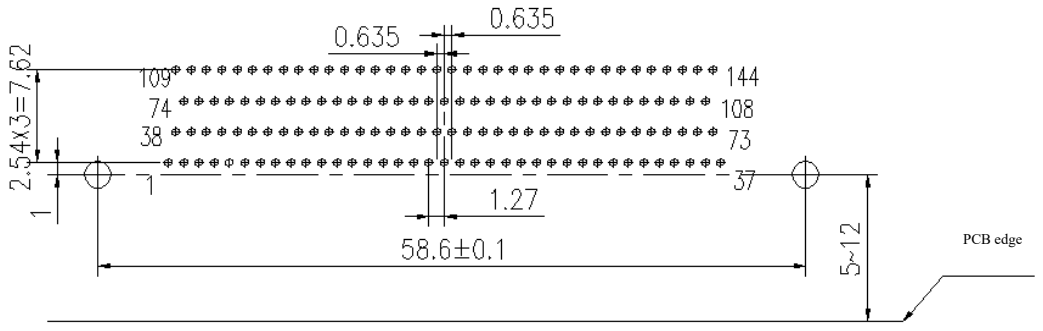
J30J-74ZKW/W2.6/W3.5/W4.5-J



J30J-100ZKW/W2.6/W3.5/W4.5-J

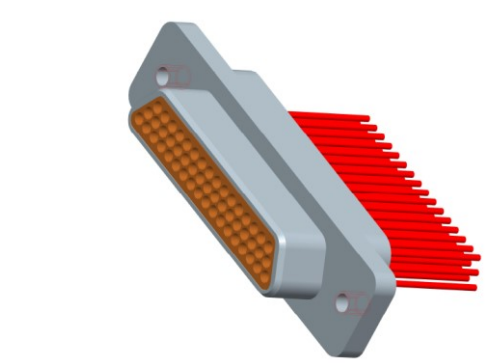
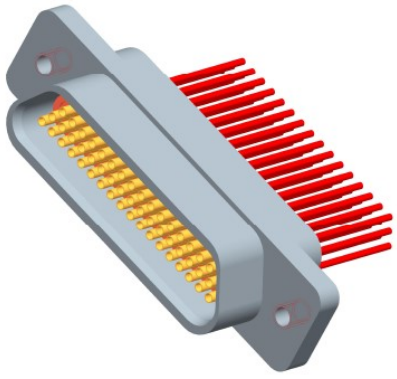
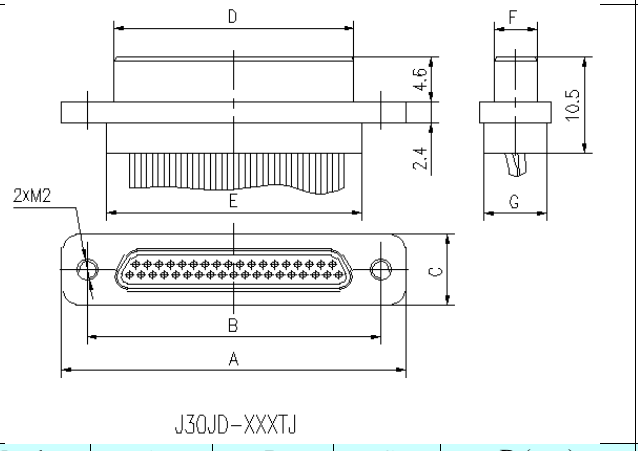
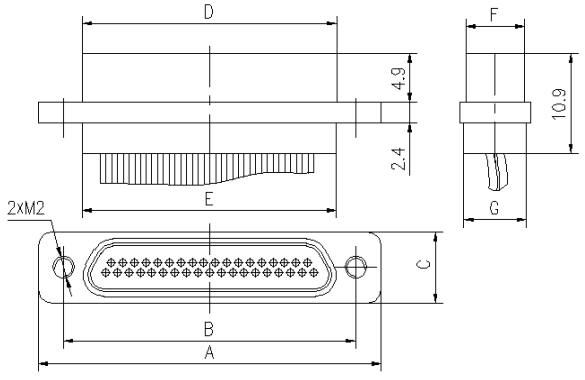


J30J-144ZKW/W2.6/W3.5/W4.5-J



J30JD crimp extended J30JD-TJ/ZK

The mounting hole is changed to M2-6H threaded hole based on J30J-TJ/ZK

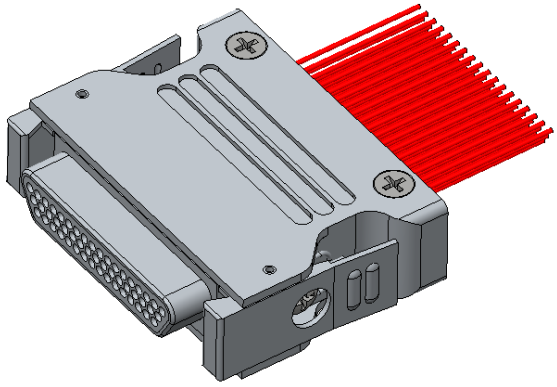
Plug: J30JD-9, 15, 21, 25, 31, 37, 51, 66, 74, 100TJ	Socket: J30JD-9, 15, 21, 25, 31, 37, 51, 66, 74, 100ZK
	
 J30JD-XXXTJ	 J30JD-XXXZK

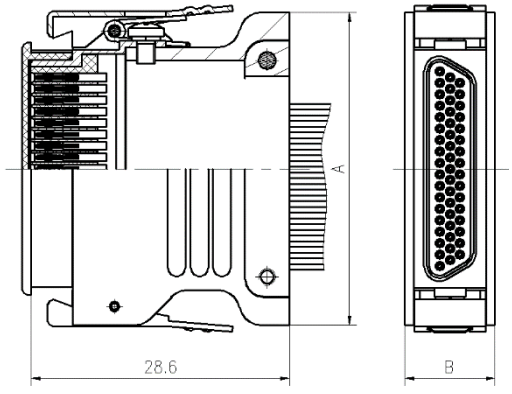
Number of cores	A (mm)	B (mm)	C (mm)	D (mm) Plug	D (mm) Socket	E (mm)	F (mm) Plug	F (mm) Socket	G (mm)
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	27.8			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	

J30J quick-lock J30JA-TJ/ZK

The plug adopts the crimping form, and is provided with a clamping plate to compress the wire, and is quickly locked with the socket through the locking device at both ends of the plug.

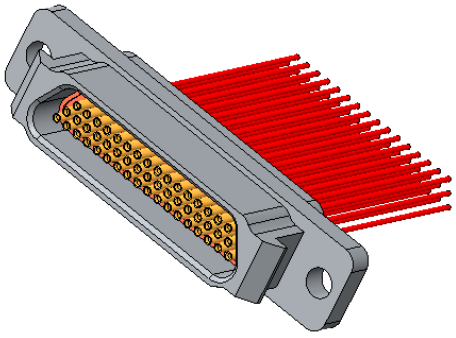
Plug: J30JA-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TJ

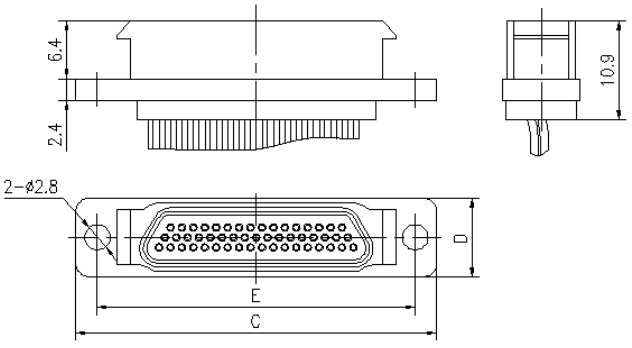




J30JA-XXXTJ

Socket: J30JA-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZK





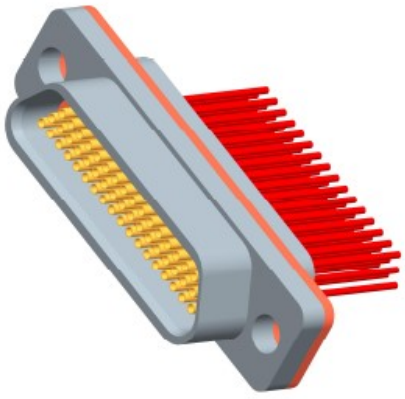
J30JA-XXXZK

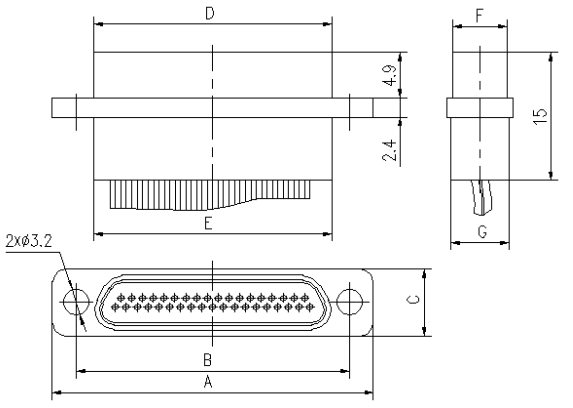
Number of cores	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
9	18.2	8.1	23.4	7.6	18.6
15	22.01		27.2		22.6
21	25.8		31		26.3
25	28.36		33.6		28.9
31	32.17		37.4		32.7
37	35.98		41.2		36.6
51	34.8	10	40.1	8.7	35.3
66	41.2		46.5		41.7
74	37.3	11	42.6	9.8	37.8
100	44.8		50.1		45.3
144	58.8		64.1		59.3

J30JM adhesive seal crimping type J30JM-ZK

J30JM adhesive sealing product, with an air leakage rate index added, which is 5.0×10^{-2}Pa·cm^3/s. The thickness of the rubber pad installed on the flange of the product is 1.5mm.

Socket: J30JM-9, 15, 21, 25, 31, 37, 51, 66, 74, 100ZK





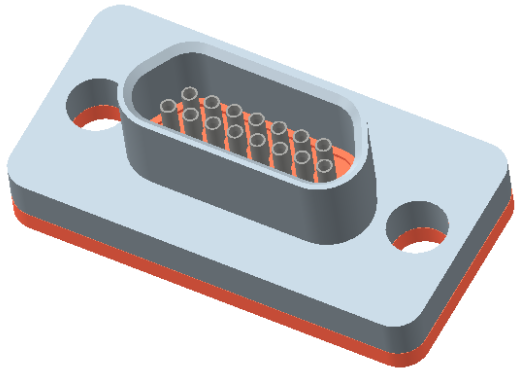
J30JM-XXXZK

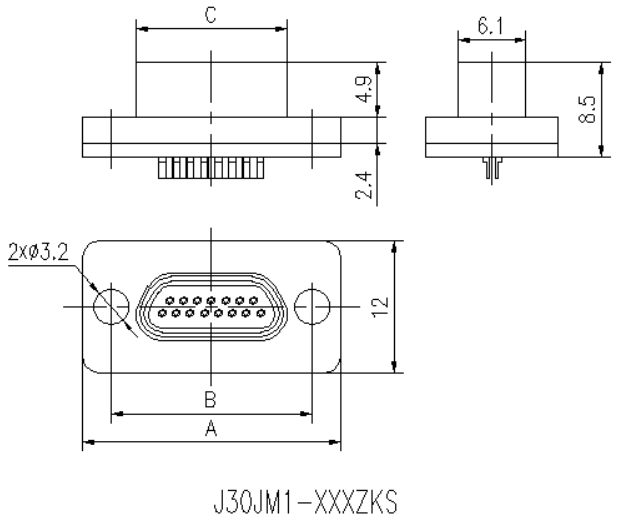
Number of cores	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
9	19.6	14.35	12	9.8	9.9	6.1	6.8
15	23.5	18.16		13.7	13.8		
21	27.4	21.97		17.4	17.6		
25	29.8	24.51		20	20.2		
31	33.6	28.32		23.8	24		
37	37.4	32.13		27.7	27.8		
51	36.4	30.86	13	26.5	26.6	7.2	7.9
66	42.9	37.3		32.9	33		
74	38.8	33.5	14	29	29.1	8.3	9.1
100	54.7	45.72		36.6	36.65	8.2	

J30JM1 glass-sintered J30JM1-ZKS

J30JM1 glass-sintered product, with alloy wire bonded at the tail end of the contact. Except that the insulation resistance (≥ 1000MΩ) is different from that of J30J-TJ/ZK basic type, the performance indexes are the same as those of J30J-TJ/ZK basic type, and an air leakage rate index is added, which is1.0×10^{-3}Pa·cm^3/s. The thickness of the rubber pad installed on the flange of the product is 1.2mm.

Socket: J30JM1-9, 15, 21, 25, 31, 37ZKS

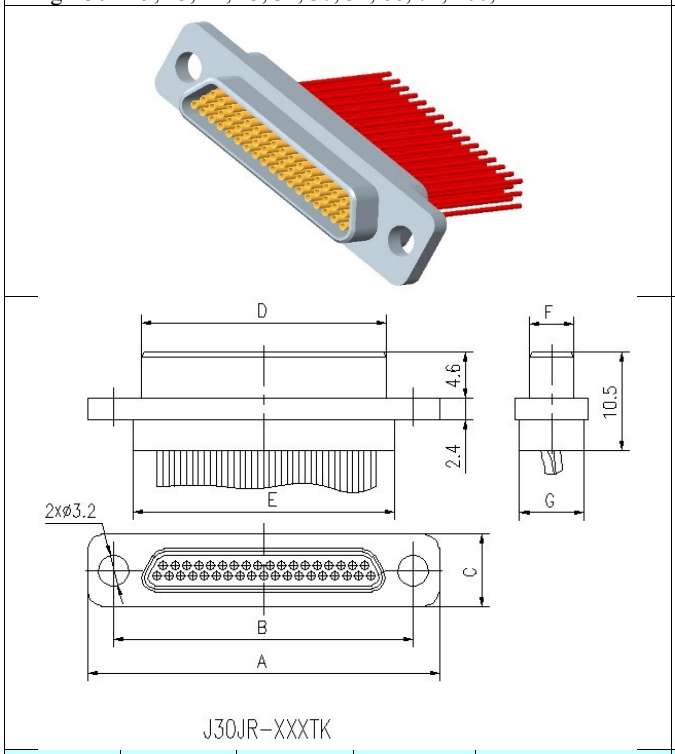
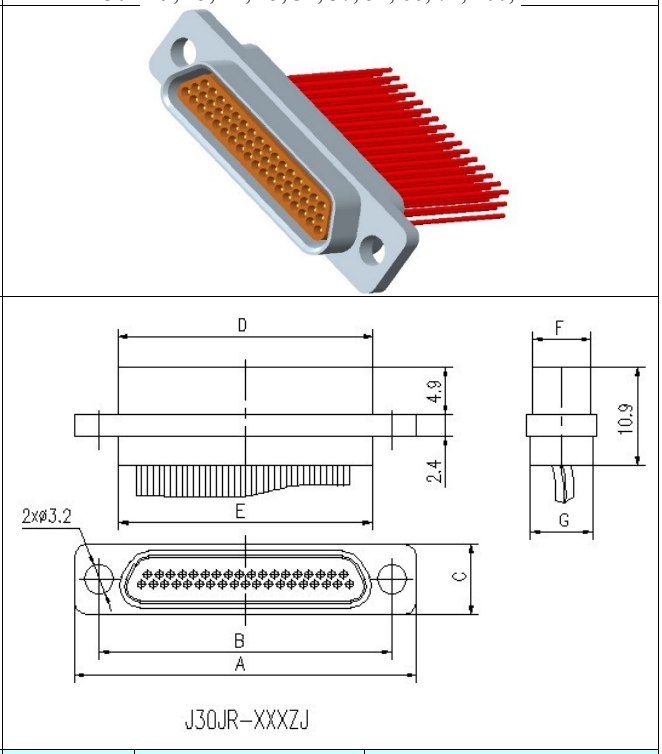




Number of cores	A (mm)	B (mm)	C (mm)
9	19.6	14.35	9.88
15	23.41	18.2	13.69
21	27.22	21.97	17.5
25	29.76	24.51	20.04
31	33.57	28.32	23.85
37	37.38	32.13	27.66

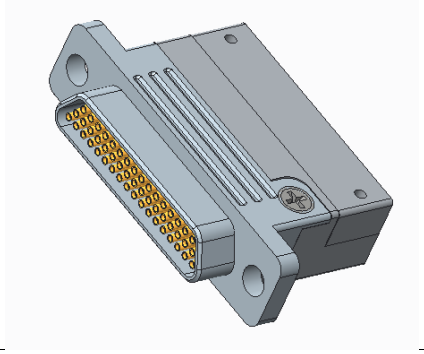
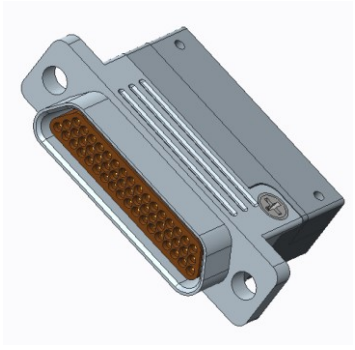
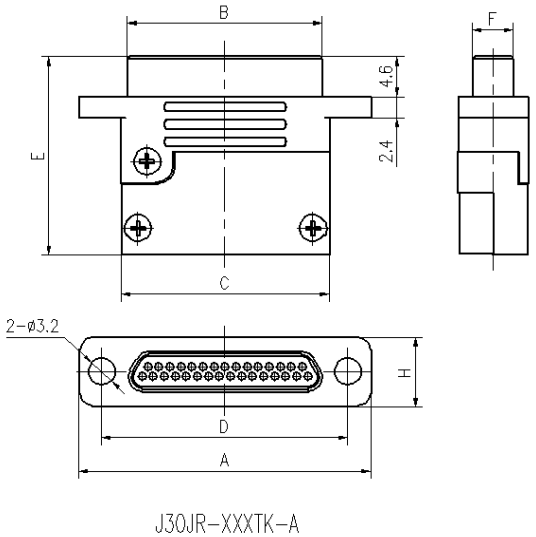
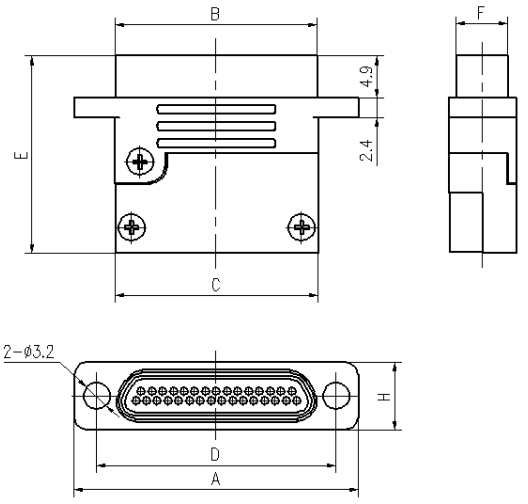
J30JR series with reverse-mounted pin and Jack

J30JR series product with reverse-mounted pin and Jack; that is, the plug is installed with the jack and the socket is installed with the pin. Corresponding to J30J type, J30JR reverse-mounted type can be extended to welding type, PCB in-line type, PCB bent type, etc. J30JR reverse-mounted plug and socket are the same as the plug and socket of the corresponding J30J product in the dimensions of the housing and the hole on the mounting plate.

Plug: J30JR-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TK	Socket: J30JR-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZJ
 J30JR-XXXTK	 J30JR-XXXZJ

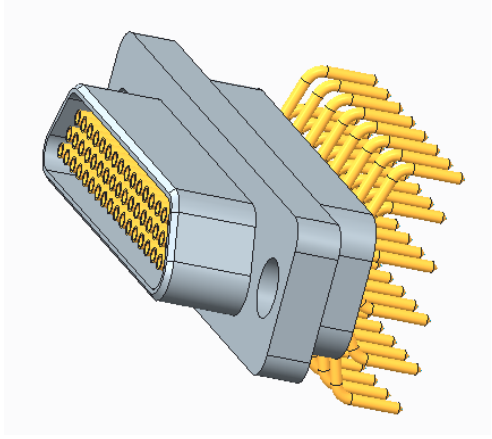
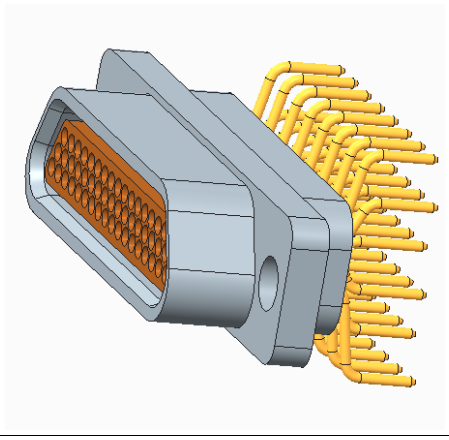
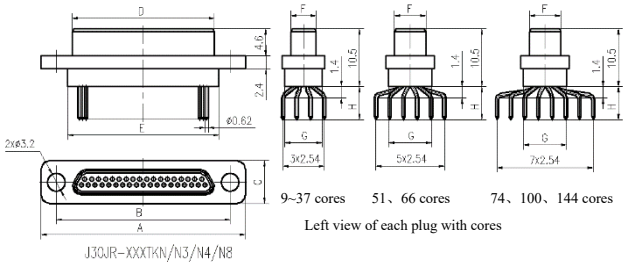
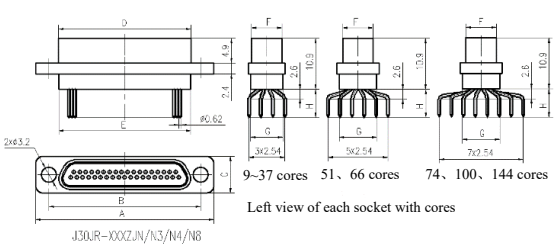
Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	28			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	
144	66.6	58.6		49	50.6	50.6			

J30JR extended J30JR-TK/ZJ-A (with shielding clamp assembly)

Plug: J30JR-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TK-A	Socket: J30JR-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZJ-A
	
 J30JR-XXXTK-A	 J30JR-XXXZJ-A

Number of cores	A (mm)	B (mm) Plug	B (mm) Socket	C (mm)	D (mm)	E (mm) Plug	E (mm) Socket	F (mm) Plug	F (mm) Socket	H (mm)
9	19.6	8.3	9.8	9.9	14.35	22.6	22.9	4.7	6.1	8
15	23.5	12.3	13.7	13.8	18.16					
21	27.4	16	17.4	17.6	21.97		23			
25	29.8	18.6	20	20.2	24.51					
31	33.6	22.4	23.8	24	28.32					
37	37.4	26.3	27.7	27.8	32.13					
51	36.4	25	26.5	26.6	30.86			5.8	7.2	9
66	42.9	31.4	32.9	33	37.3					
74	38.8	27.5	29	29.1	33.5	24.7	25.2	6.8	8.3	11
100	54.7	35	36.6	36.6	45.72	25			8.2	
144	66.6	49	50.6	50.6	58.6					

J30JR in-line PCB J30JR-TKN(N3/N4/N8)/ZJN(N3/N4/N8) (grid spacing 2.54 × 2.54)

Plug: J30JR-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TKN/N3/N4/N8	Socket: J30JR-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZJN/N3/N4/N8
	
	

Number of cores	A	B	C	D		E	F		G
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	27.8			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	
144	66.6	58.6		49	50.6	50.6			

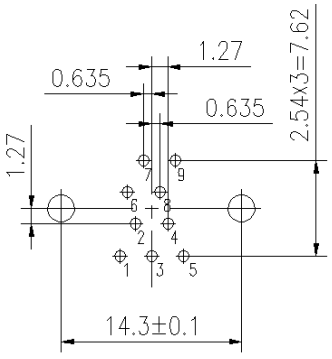
Where H is the lead height and the dimensions are as follows:

Type	N	N3	N4	N8
H (plug/socket)	5.1/6.3	6.1/7.3	6.6/7.8	7.2/8.6

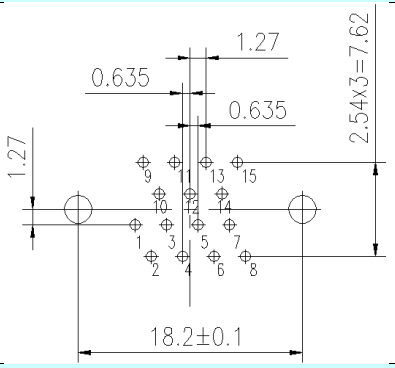
Hole size of J30JR series in-line PCB plug (grid spacing 2.54 × 2.54): J30JR-XXXTKN/N3/N4/N8;

The hole size of the pin is $\Phi 0.9_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.3_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

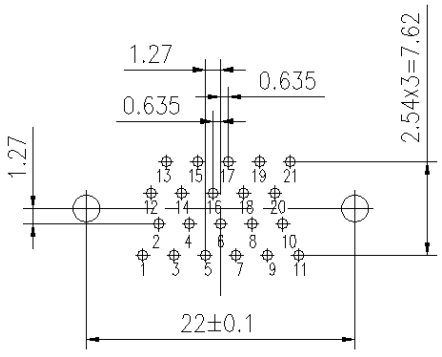
J30JR-9TKN/N3/N4/N8



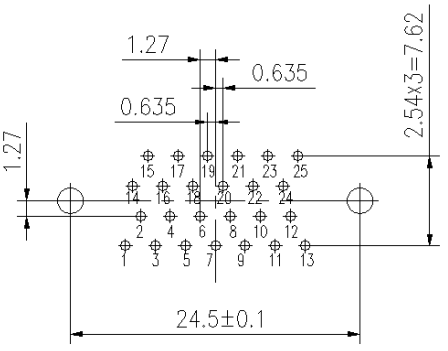
J30JR-15TKN/N3/N4/N8



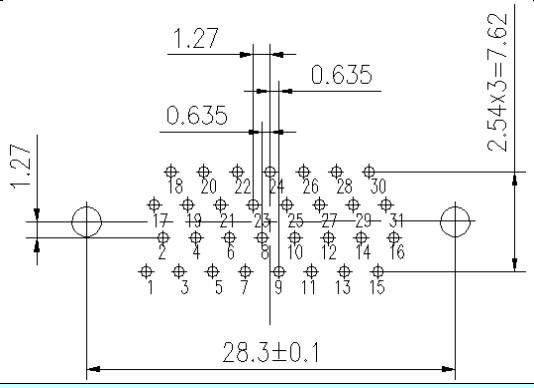
J30JR-21TKN/N3/N4/N8



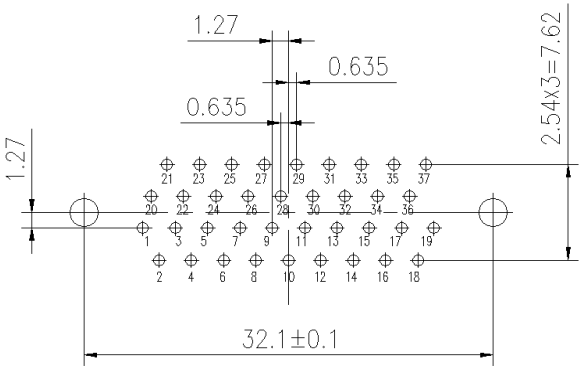
J30JR-25TKN/N3/N4/N8



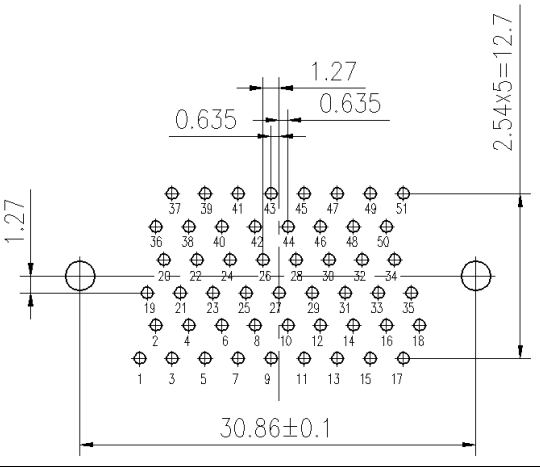
J30JR-31TKN/N3/N4/N8



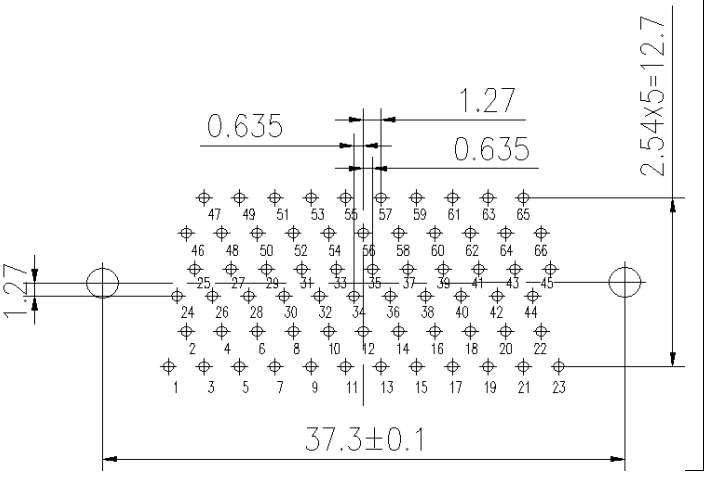
J30JR-37TKN/N3/N4/N8



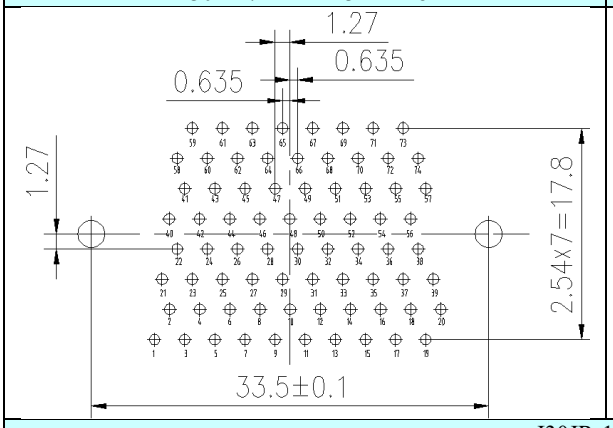
J30JR-51TKN/N3/N4/N8



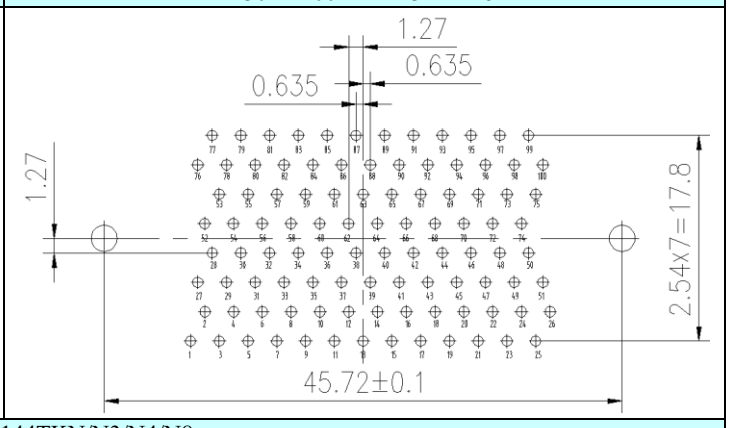
J30JR-66TKN/N3/N4/N8



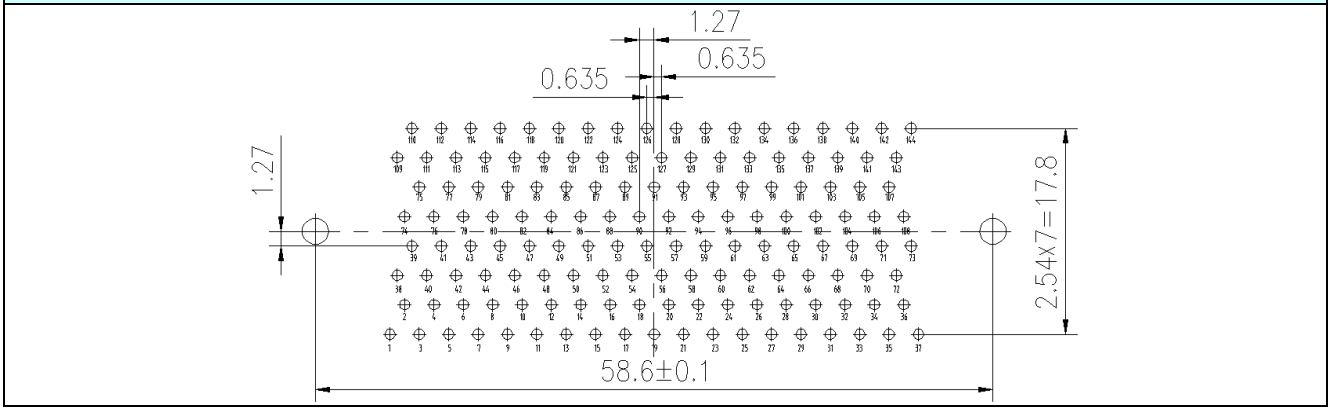
J30JR-74TKN/N3/N4/N8



J30JR-100TKN/N3/N4/N8



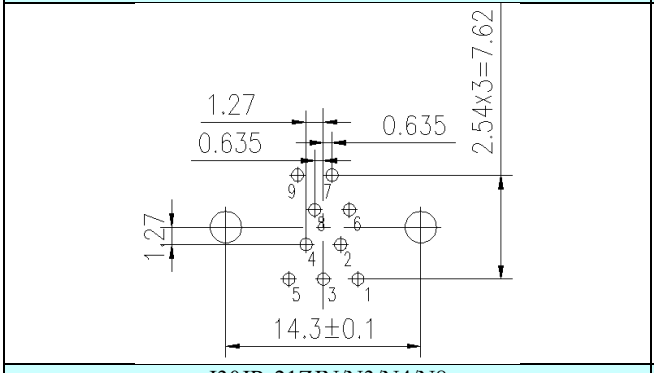
J30JR-144TKN/N3/N4/N8



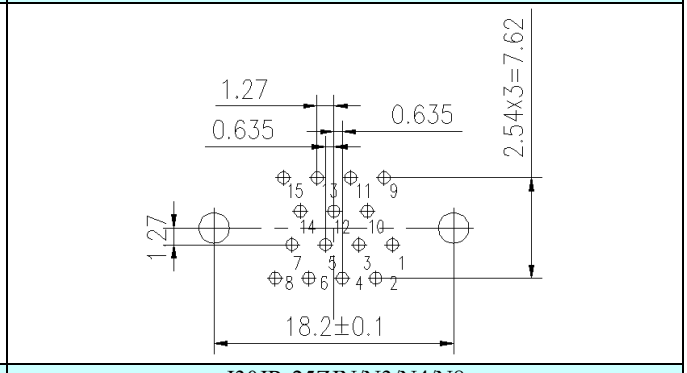
Hole size of J30JR series in-line socket (grid spacing 2.54 × 2.54): J30JR-XXXZJN/N3/N4/N8;

The hole size of the pin is $\Phi 0.9_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.3_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

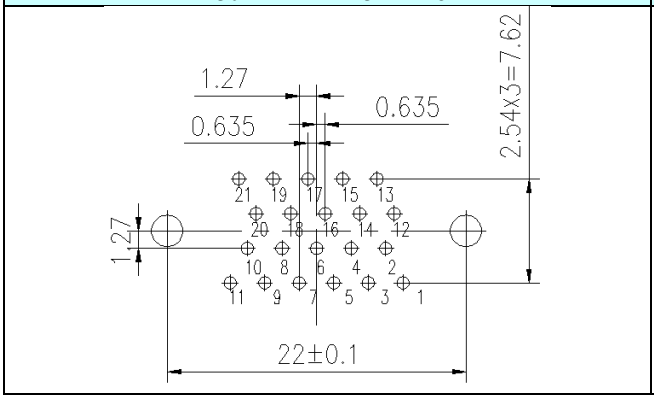
J30JR-9ZJN/N3/N4/N8



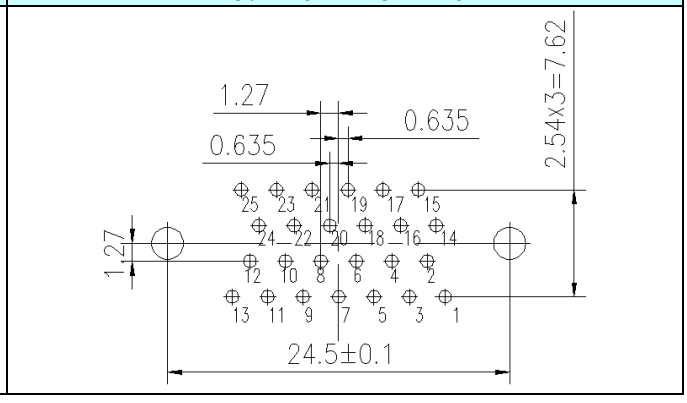
J30JR-15ZJN/N3/N4/N8



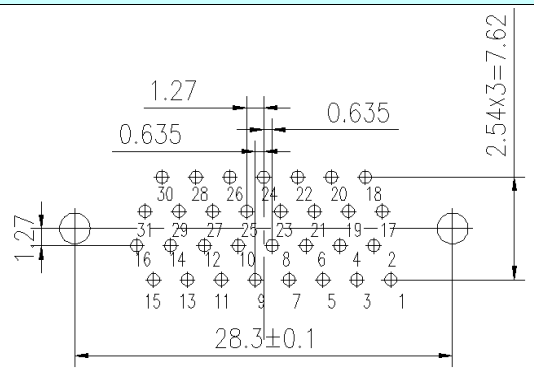
J30JR-21ZJN/N3/N4/N8



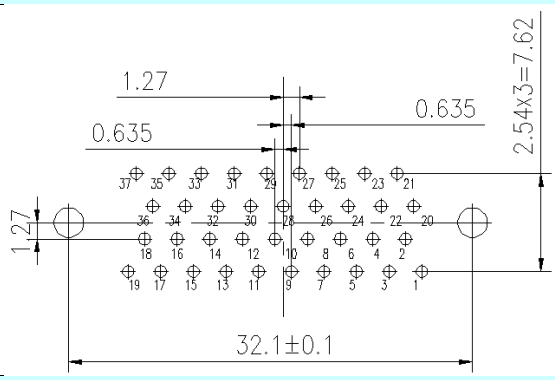
J30JR-25ZJN/N3/N4/N8



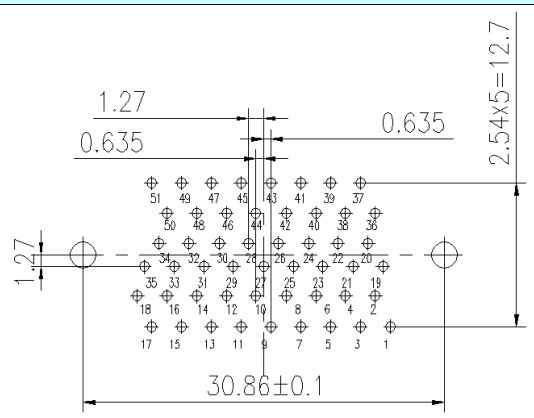
J30JR-31ZJN/N3/N4/N8



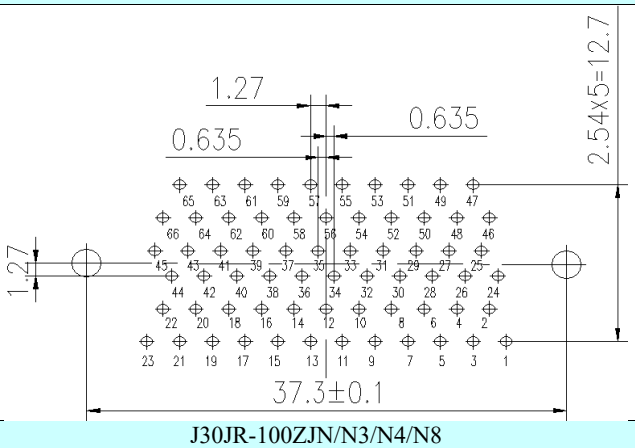
J30JR-37ZJN/N3/N4/N8



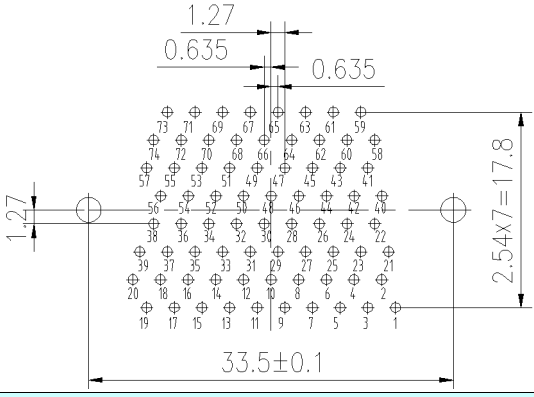
J30JR-51ZJN/N3/N4/N8



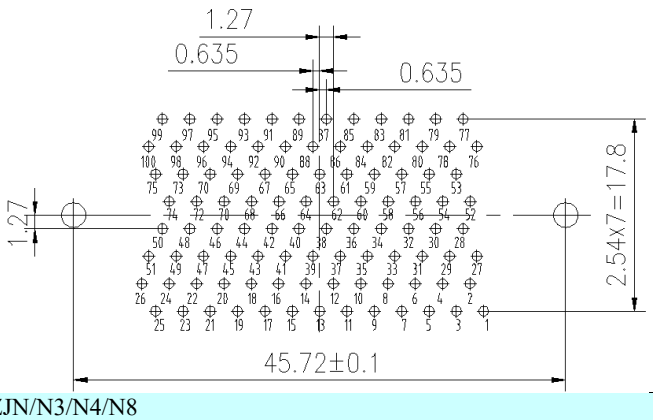
J30JR-66ZJN/N3/N4/N8



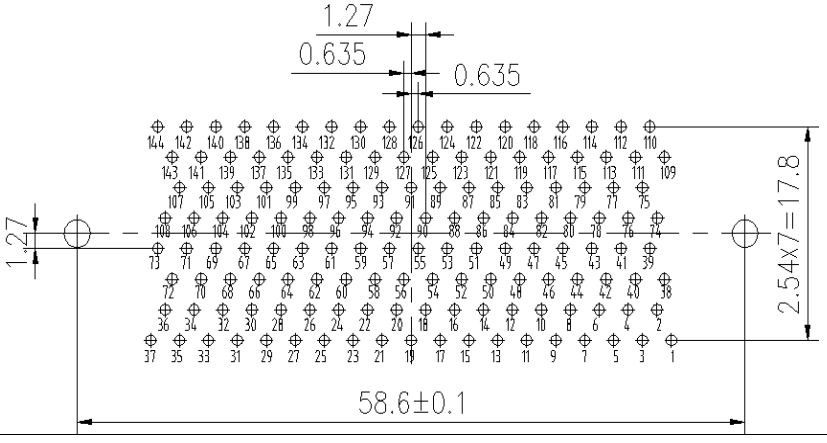
J30JR-74ZJN/N3/N4/N8



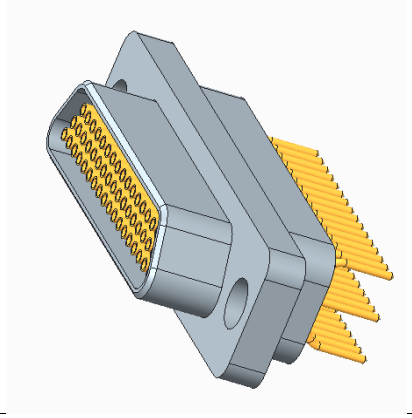
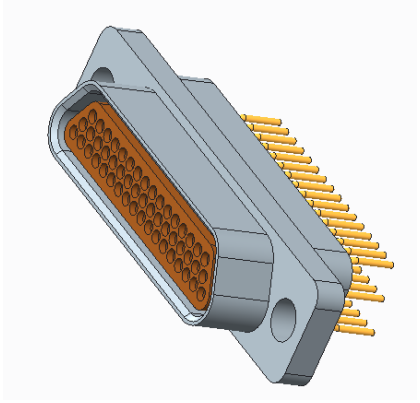
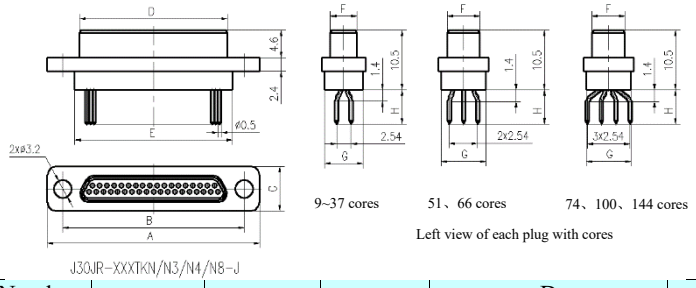
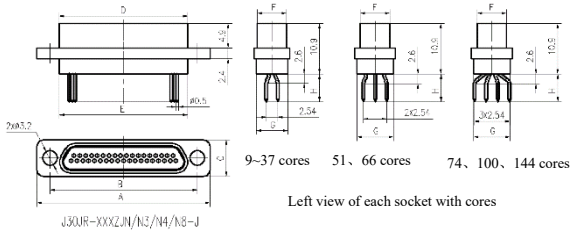
J30JR-100ZJN/N3/N4/N8



J30JR-144ZJN/N3/N4/N8



J30JR in-line PCB J30JR-TKN(N3/N4/N8)/ZJN(N3/N4/N8) (grid spacing 1.27 × 2.54)

Plug: J30JR-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TKN/N3/N4/N8-J	Socket: J30JR-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZJN/N3/N4/N8-J
	
	

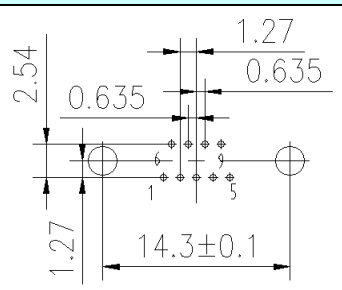
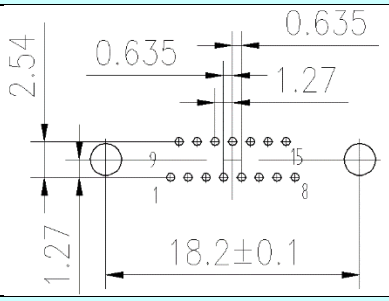
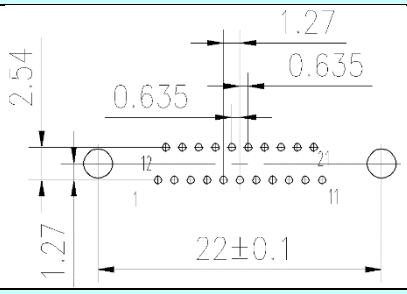
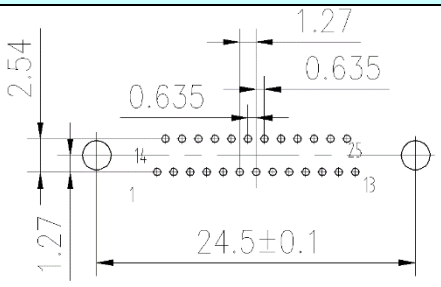
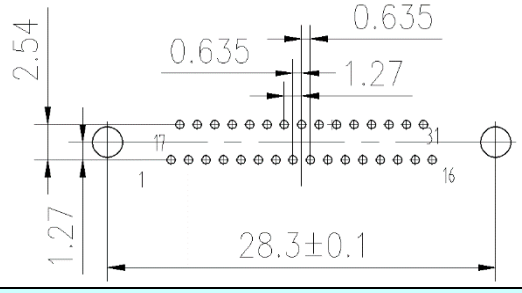
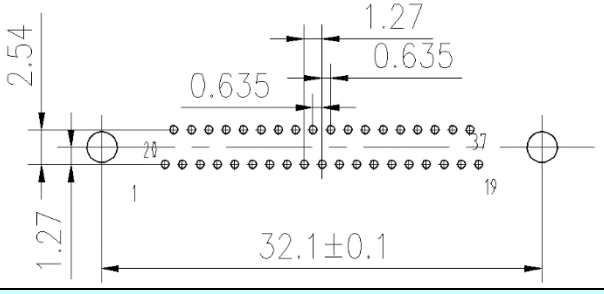
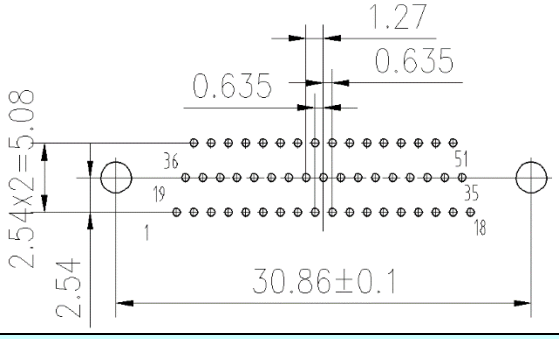
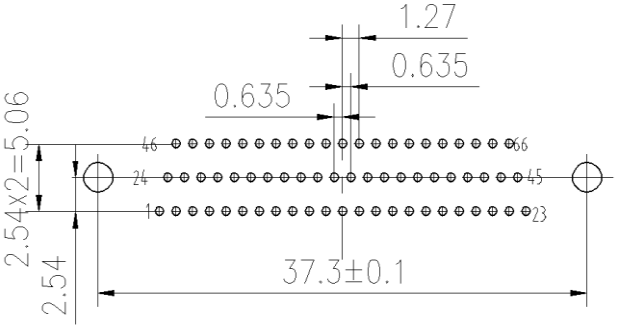
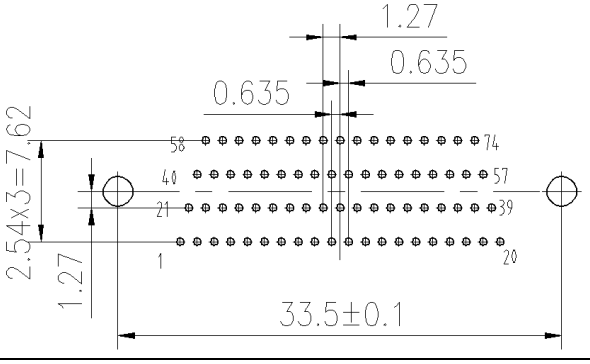
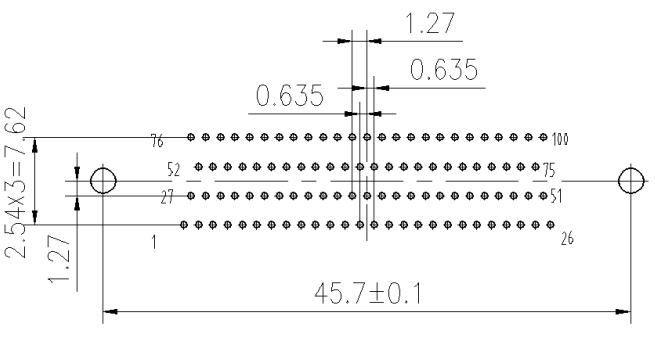
Number of cores	A	B	C	D		E	F		G
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	27.8			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	
144	66.6	58.6		49	50.6	50.6			

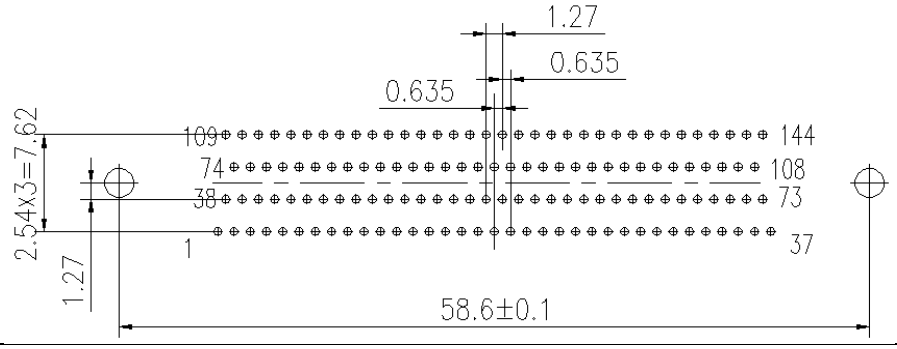
Where H is the lead height and the dimensions are as follows:

Type	N	N3	N4	N8
H (plug/socket)	5.1/6.3	6.1/7.3	6.6/7.8	7.2/8.6

Hole size of J30JR series in-line PCB plug (grid spacing 1.27 × 2.54): J30JR-XXXTKN/N3/N4/N8-J;

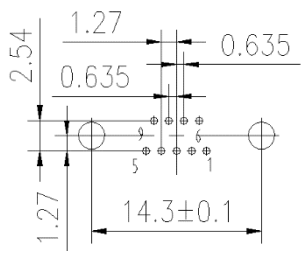
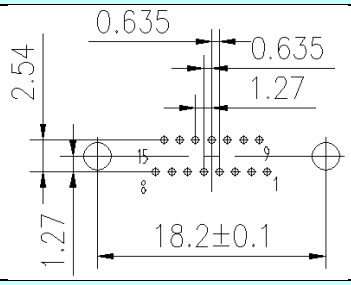
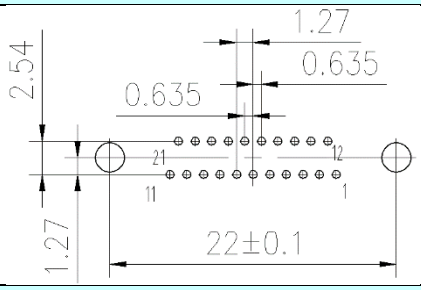
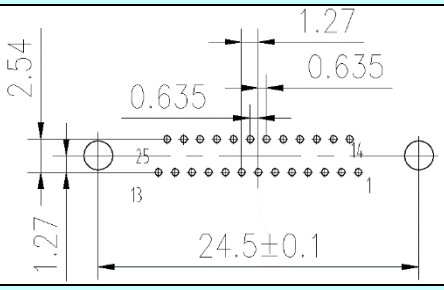
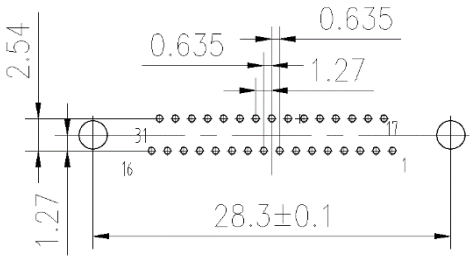
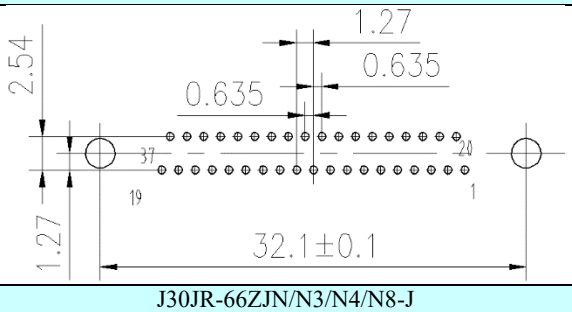
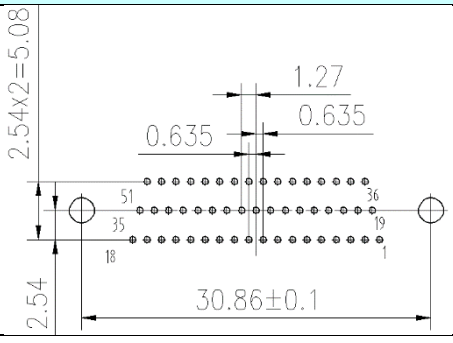
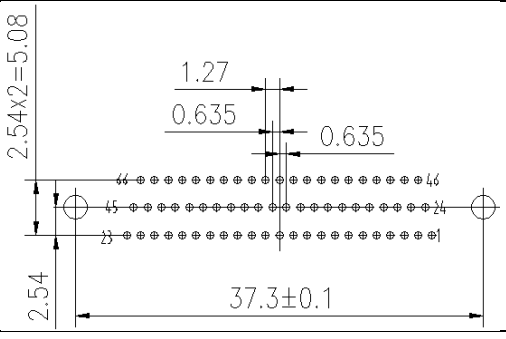
The hole size of the pin is $\Phi 0.7_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.3_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

J30JR-9TKN/N3/N4/N8-J	J30JR-15TKN/N3/N4/N8-J
	
J30JR-21TKN/N3/N4/N8-J	J30JR-25TKN/N3/N4/N8-J
	
J30JR-31TKN/N3/N4/N8-J	J30JR-37TKN/N3/N4/N8-J
	
J30JR-51TKN/N3/N4/N8-J	J30JR-66TKN/N3/N4/N8-J
	
J30JR-74TKN/N3/N4/N8-J	J30JR-100TKN/N3/N4/N8-J
	

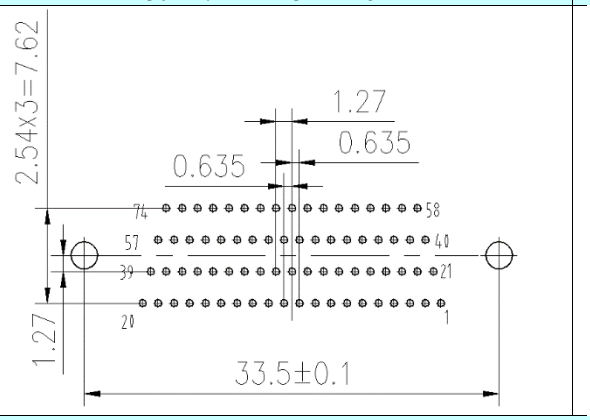
J30JR-144TKN/N3/N4/N8-J


Hole size of J30JR series in-line socket (grid spacing 1.27 × 2.54): J30JR-XXXZJN/N3/N4/N8-J;

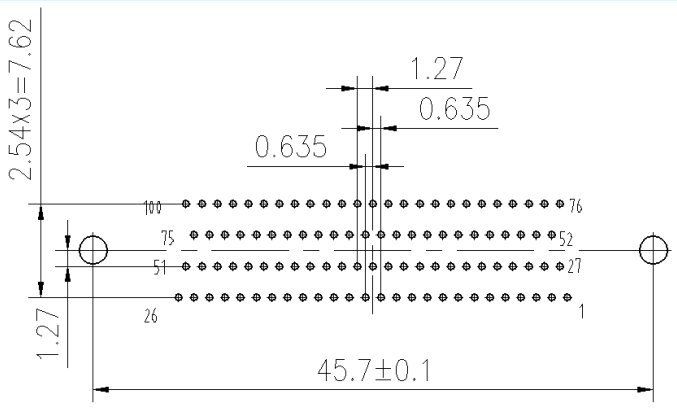
The hole size of the pin is $\Phi 0.7^{+0.1}_{0}$, and the size of the mounting hole is $\Phi 2.3^{+0.1}_{0}$ (viewed from the threading direction of the PCB contact).

J30JR-9ZJN/N3/N4/N8-J	J30JR-15ZJN/N3/N4/N8-J
	
J30JR-21ZJN/N3/N4/N8-J	J30JR-25ZJN/N3/N4/N8-J
	
J30JR-31ZJN/N3/N4/N8-J	J30JR-37ZJN/N3/N4/N8-J
	
J30JR-51ZJN/N3/N4/N8-J	J30JR-66ZJN/N3/N4/N8-J
	

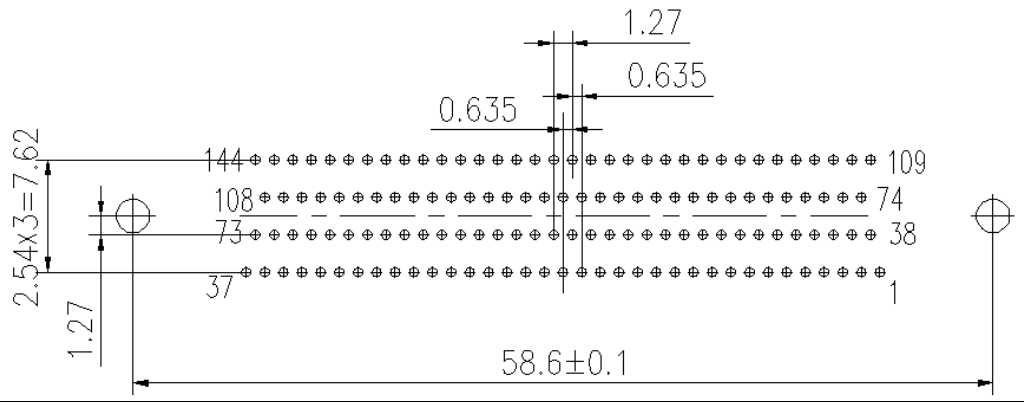
J30JR-74ZJN/N3/N4/N8-J



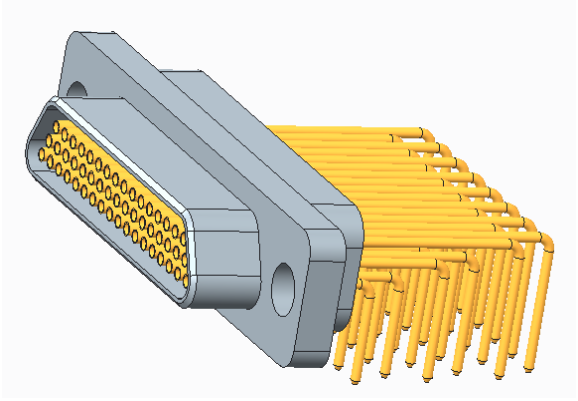
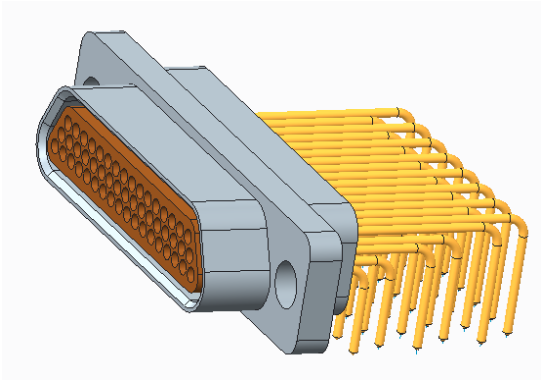
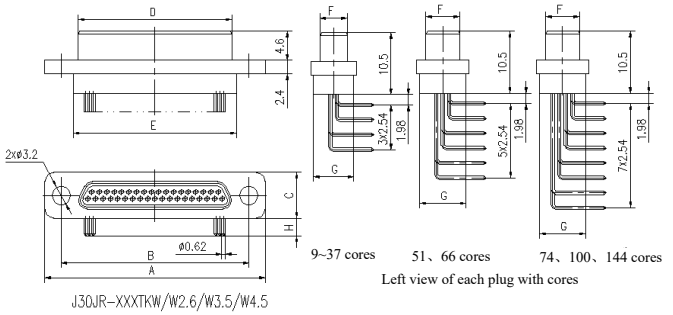
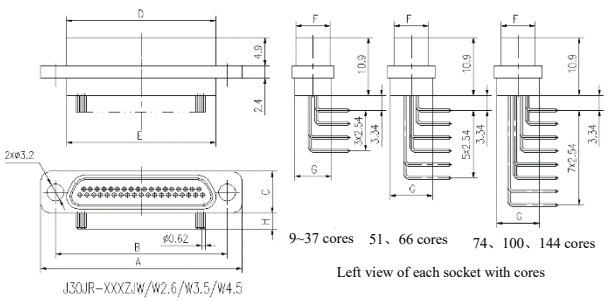
J30JR-100ZJN/N3/N4/N8-J



J30JR-144ZJN/N3/N4/N8-J



J30JR bent PCB J30JR-TKW(W2.6/W3.5/W4.5)/ZJW(W2.6/W3.5/W4.5) (grid spacing 2.54 × 2.54)

Plug: J30JR-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TKW/W2.6/W3.5/W4.5	Socket: J30JR-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZJW/W2.6/W3.5/W4.5
	
 Left view of each plug with cores	 Left view of each socket with cores

Number of cores	A	B	C	D		E	F		G
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	27.8			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	
144	66.6	58.6		49	50.6	50.6			

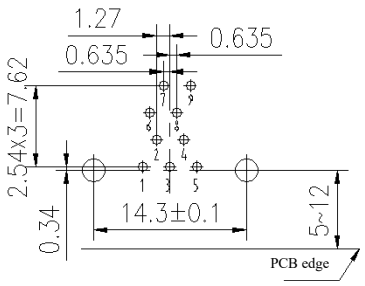
Where H is the height exposed the mounting surface, and the dimensions are as follows:

Type	W	W2.6	W3.5	W4.5
H	3	2.6	3.5	4.5

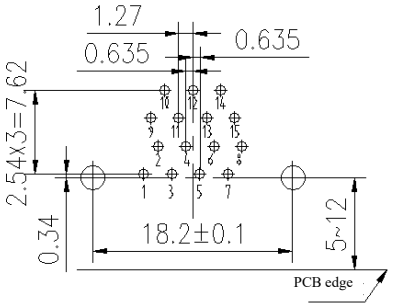
Hole size of J30JR series bent PCB plug (grid spacing 2.54 × 2.54): J30JR-XXXTKW/W2.6/W3.5/W4.5

The hole size of the pin is $\Phi 0.9_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.3_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

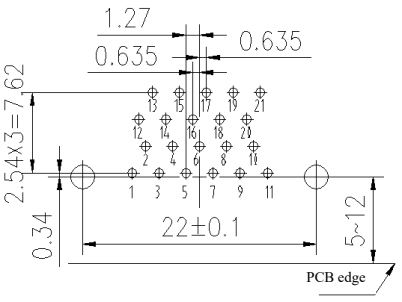
J30JR-9TKW/W2.6/W3.5/W4.5



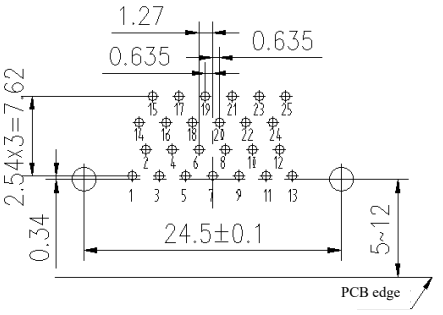
J30JR-15TKW/W2.6/W3.5/W4.5



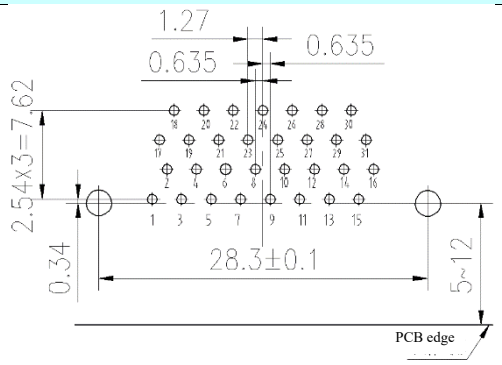
J30JR-21TKW/W2.6/W3.5/W4.5



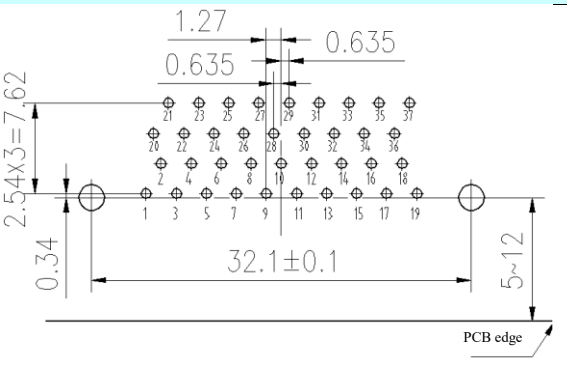
J30JR-25TKW/W2.6/W3.5/W4.5



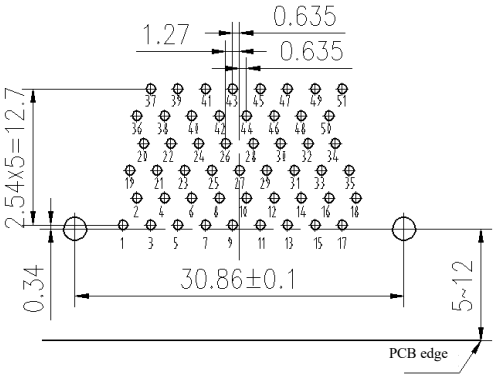
J30JR-31TKW/W2.6/W3.5/W4.5



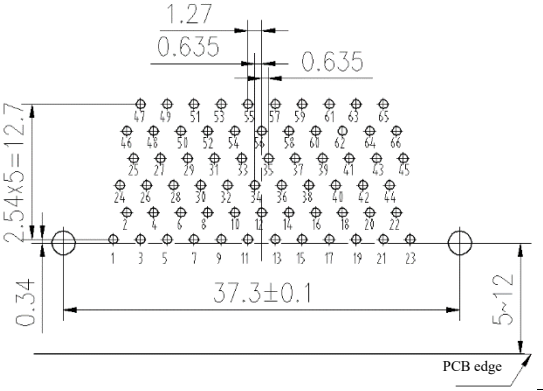
J30JR-37TKW/W2.6/W3.5/W4.5

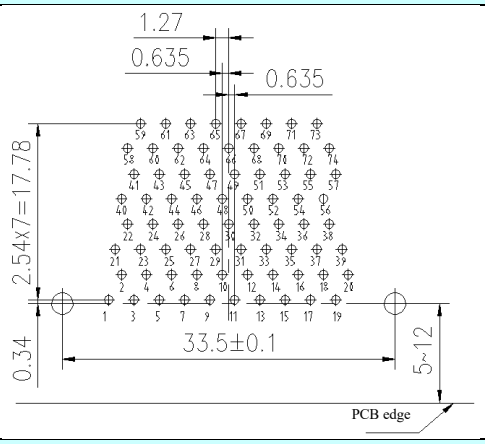
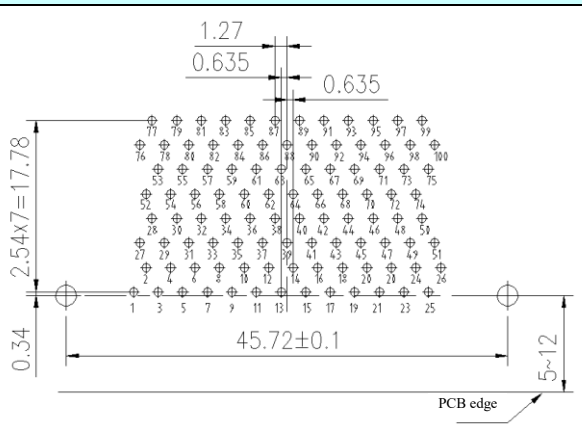


J30JR-51TKW/W2.6/W3.5/W4.5

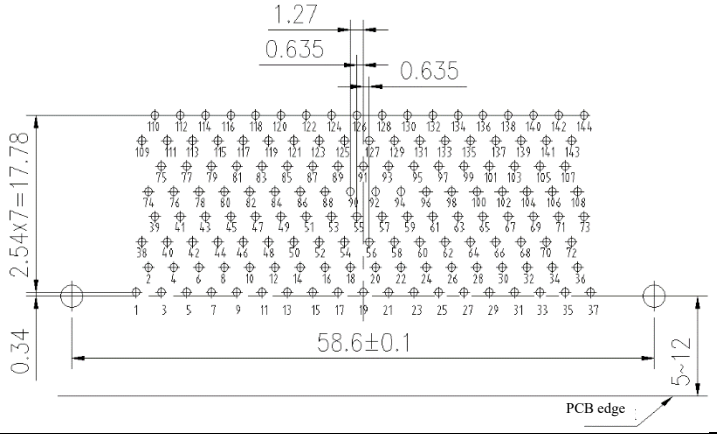


J30JR-66TKW/W2.6/W3.5/W4.5



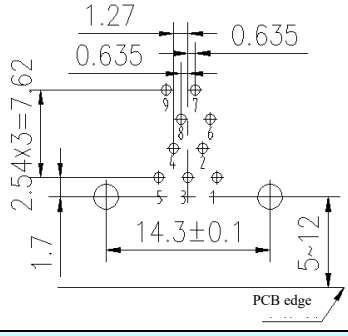
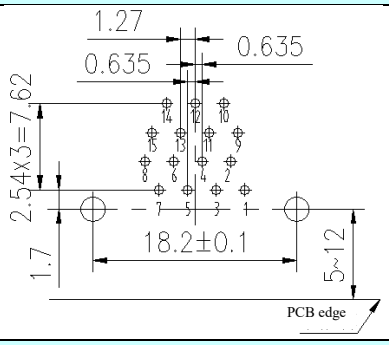
J30JR-74TKW/W2.6/W3.5/W4.5	J30JR-100TKW/W2.6/W3.5/W4.5
	

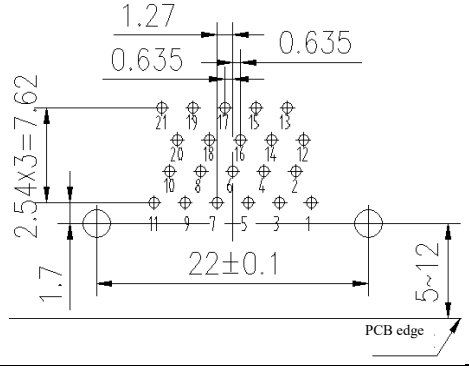
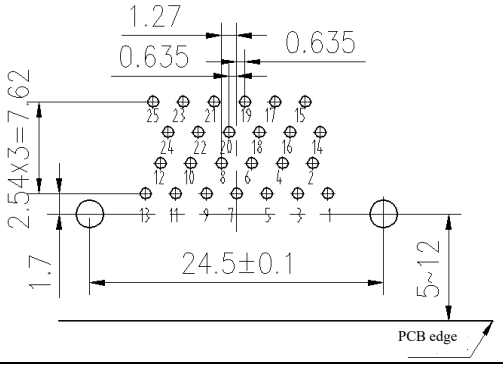
J30JR-144TKW/W2.6/W3.5/W4.5



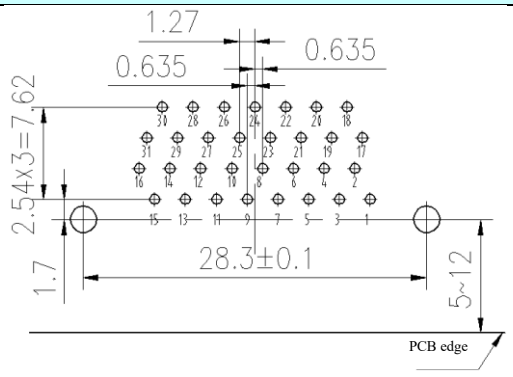
Hole size of J30JR series bent PCB plug (grid spacing 2.54 × 2.54): J30JR-XXXZJW/W2.6/W3.5/W4.5

The hole size of the pin is $\Phi 0.9^{+0.1}_{0}$, and the size of the mounting hole is $\Phi 2.3^{+0.1}_{0}$ (viewed from the threading direction of the PCB contact).

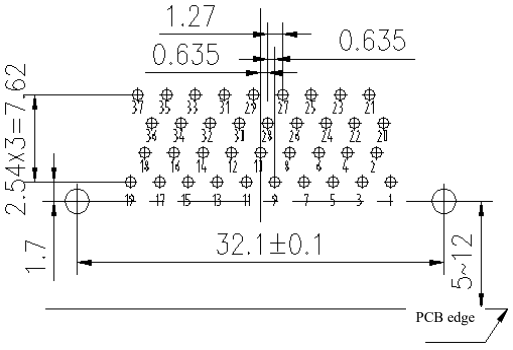
J30JR-9ZJW/W2.6/W3.5/W4.5	J30JR-15ZJW/W2.6/W3.5/W4.5
	

J30JR-21ZJW/W2.6/W3.5/W4.5	J30JR-25ZJW/W2.6/W3.5/W4.5
	

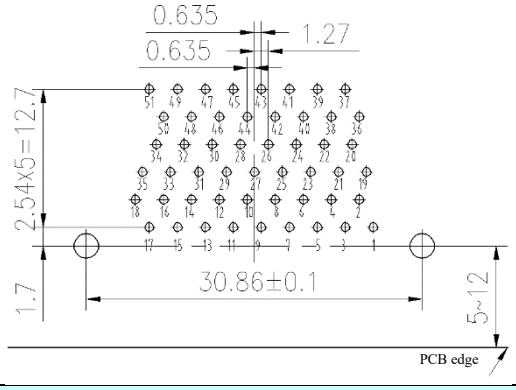
J30JR-31ZJW/W2.6/W3.5/W4.5



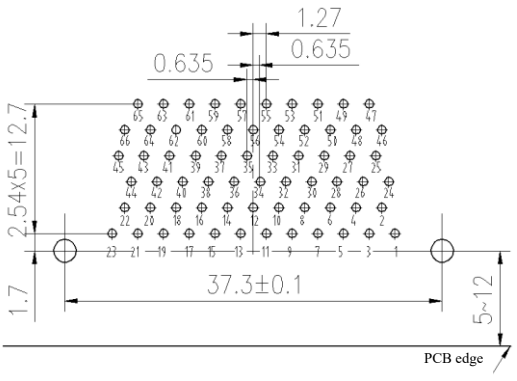
J30JR-37ZJW/W2.6/W3.5/W4.5



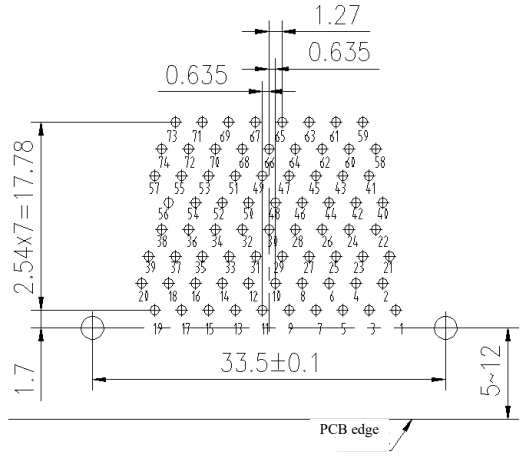
J30JR-51ZJW/W2.6/W3.5/W4.5



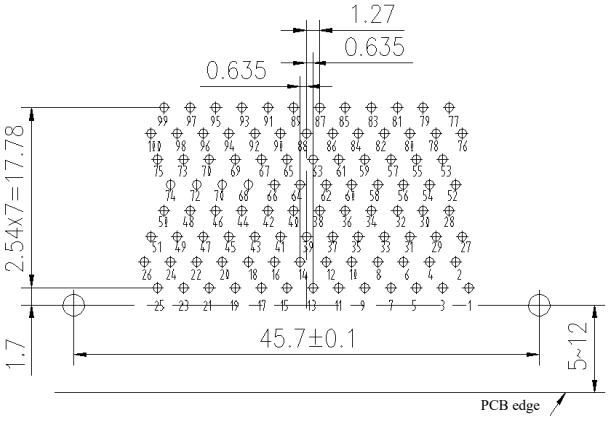
J30JR-66ZJW/W2.6/W3.5/W4.5



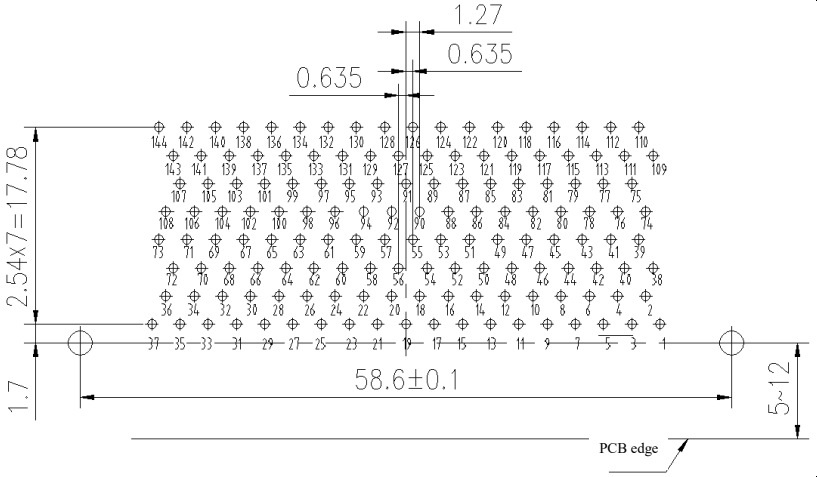
J30JR-74ZJW/W2.6/W3.5/W4.5



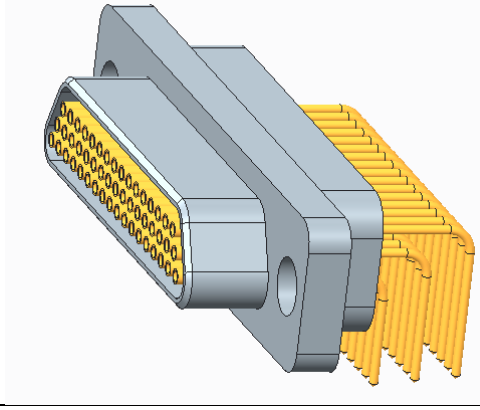
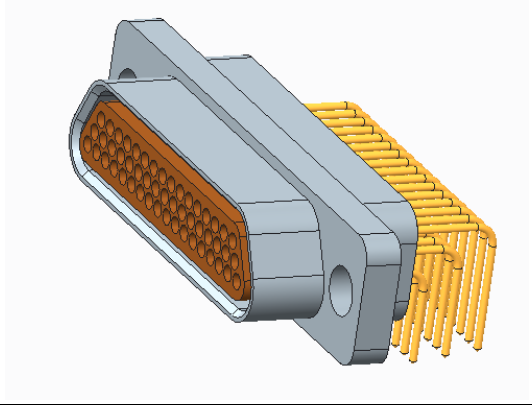
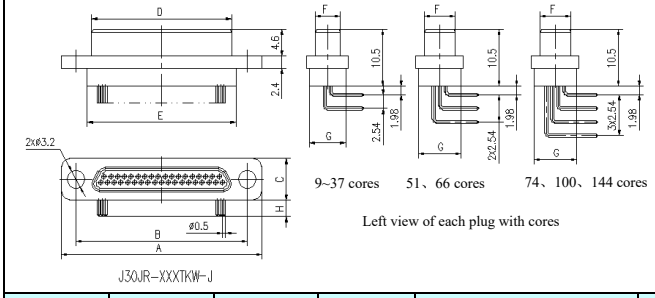
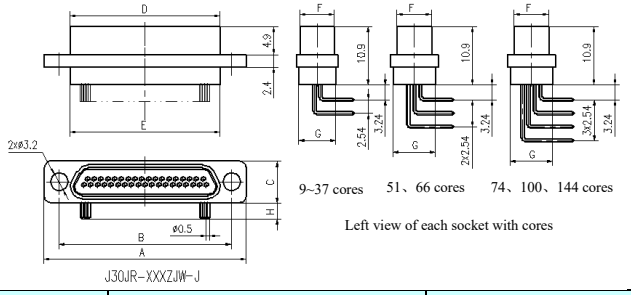
J30JR-100ZJW/W2.6/W3.5/W4.5



J30JR-144ZJW/W2.6/W3.5/W4.5



J30JR bent PCB J30JR-TKW(W2.6/W3.5/W4.5)/ZJW(W2.6/W3.5/W4.5) (grid spacing 1.27 × 2.54)

Plug: J30JR-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TKW/W2.6/W3.5/W4.5-J	Socket: J30JR-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZJW/W2.6/W3.5/W4.5-J
	
 Left view of each plug with cores	 Left view of each socket with cores

Number of cores	A	B	C	D		E	F		G
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	27.8			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	
144	66.6	58.6		49	50.6	50.6			

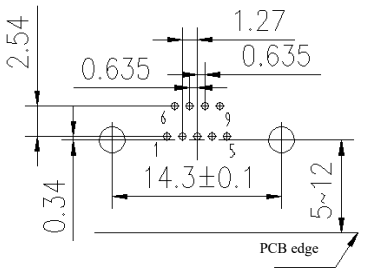
Where H is the height exposed the mounting surface, and the dimensions are as follows:

Type	W	W2.6	W3.5	W4.5
H	3	2.6	3.5	4.5

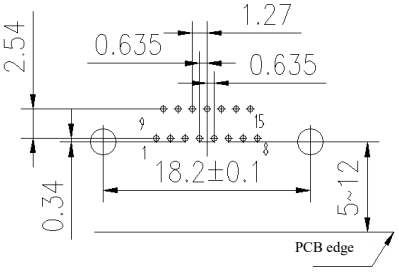
Hole size of J30JR series bent PCB plug (grid spacing 1.27 × 2.54): J30JR-XXXTKW/W2.6/W3.5/W4.5-J

The hole size of the pin is $\Phi 0.7_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.3_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

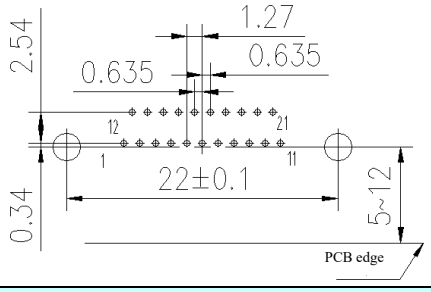
J30JR-9TKW/W2.6/W3.5/W4.5-J



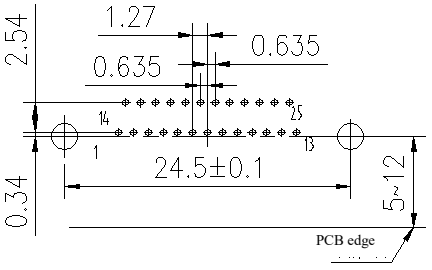
J30JR-15TKW/W2.6/W3.5/W4.5-J



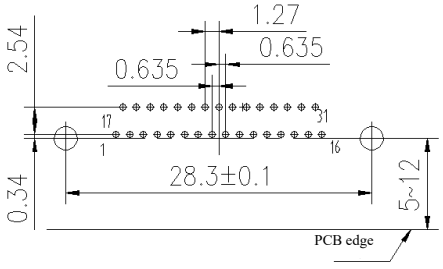
J30JR-21TKW/W2.6/W3.5/W4.5-J



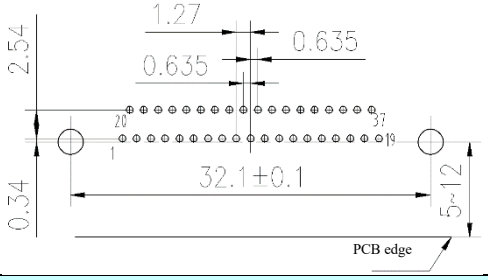
J30JR-25TKW/W2.6/W3.5/W4.5-J



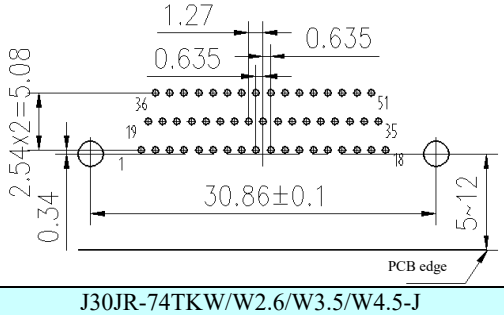
J30JR-31TKW/W2.6/W3.5/W4.5-J



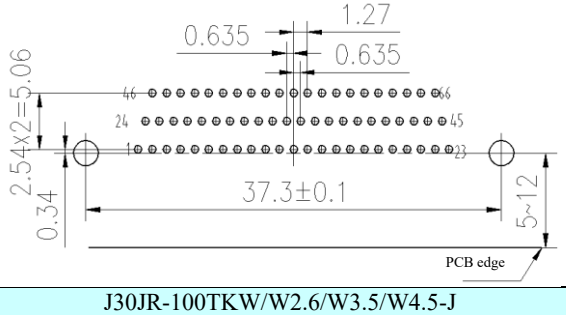
J30JR-37TKW/W2.6/W3.5/W4.5-J



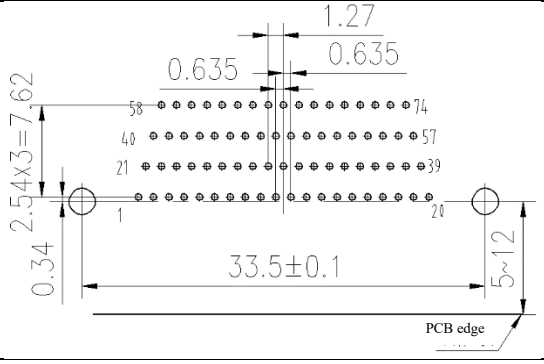
J30JR-51TKW/W2.6/W3.5/W4.5-J



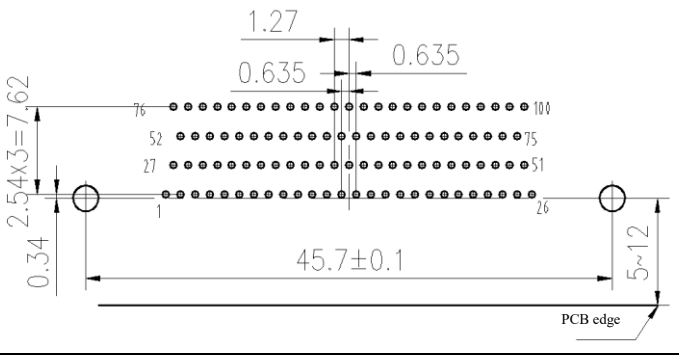
J30JR-66TKW/W2.6/W3.5/W4.5-J



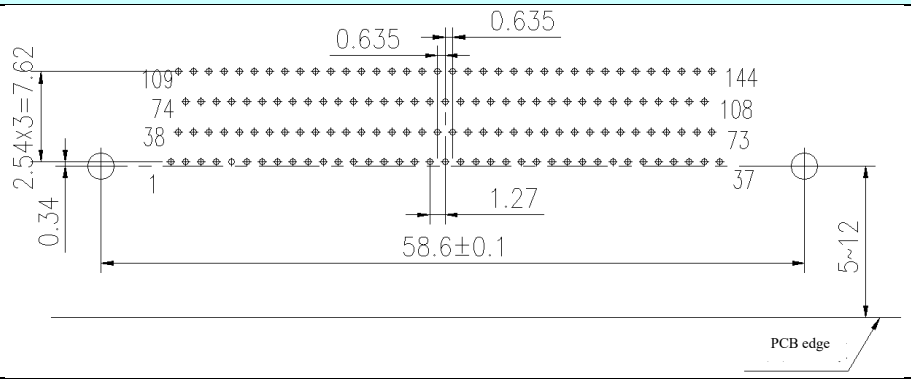
J30JR-74TKW/W2.6/W3.5/W4.5-J



J30JR-100TKW/W2.6/W3.5/W4.5-J



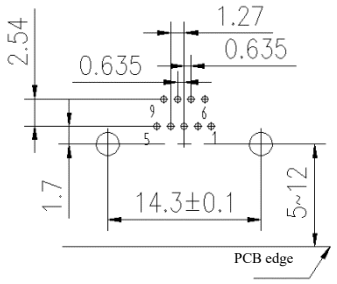
J30JR-144TKW/W2.6/W3.5/W4.5-J



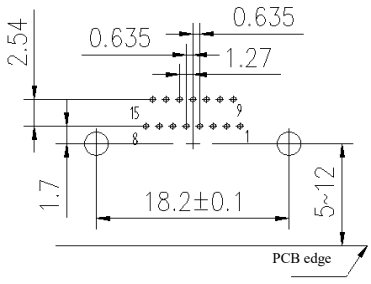
Hole size of J30JR series bent socket (grid spacing 1.27 × 2.54): J30JR-XXXZJW/W2.6/W3.5/W4.5-J

The hole size of the pin is $\Phi 0.7_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.3_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

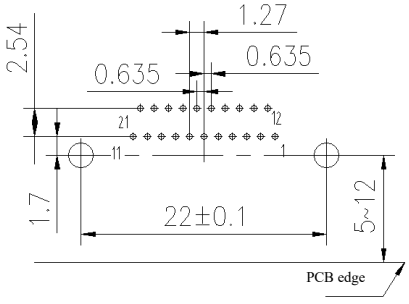
J30JR-9ZJW/W2.6/W3.5/W4.5-J



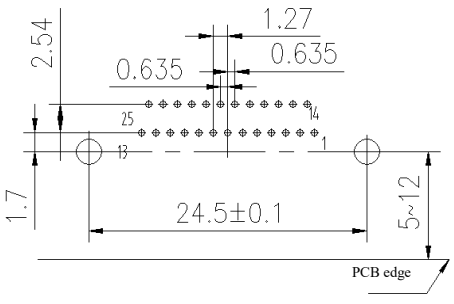
J30JR-15ZJW/W2.6/W3.5/W4.5-J



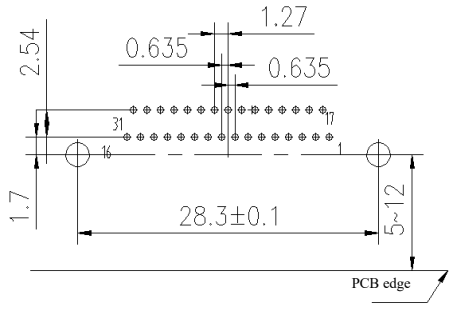
J30JR-21ZJW/W2.6/W3.5/W4.5-J



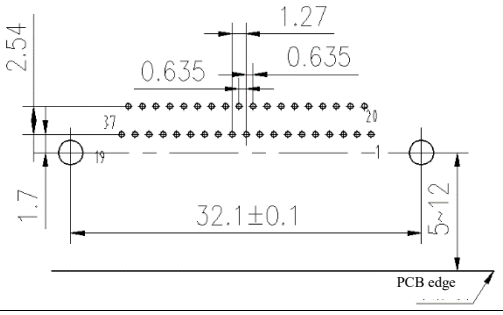
J30JR-25ZJW/W2.6/W3.5/W4.5-J



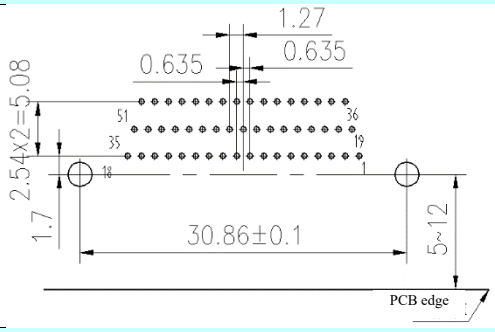
J30JR-31ZJW/W2.6/W3.5/W4.5-J



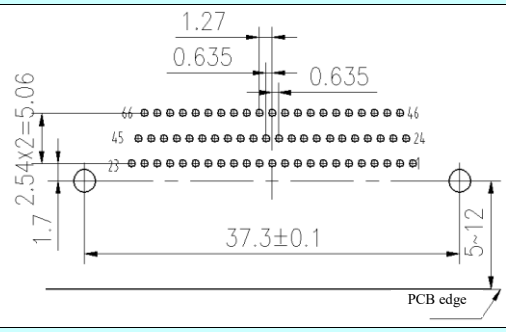
J30JR-37ZJW/W2.6/W3.5/W4.5-J



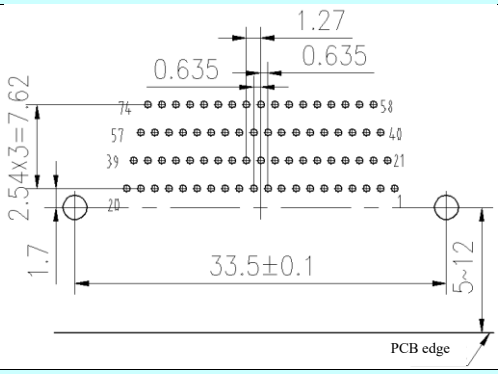
J30JR-51ZJW/W2.6/W3.5/W4.5-J



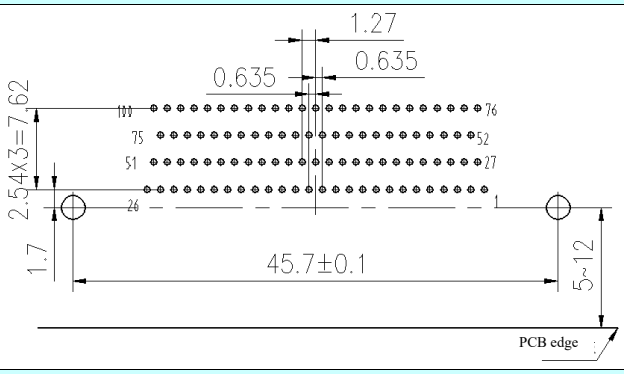
J30JR-66ZJW/W2.6/W3.5/W4.5-J



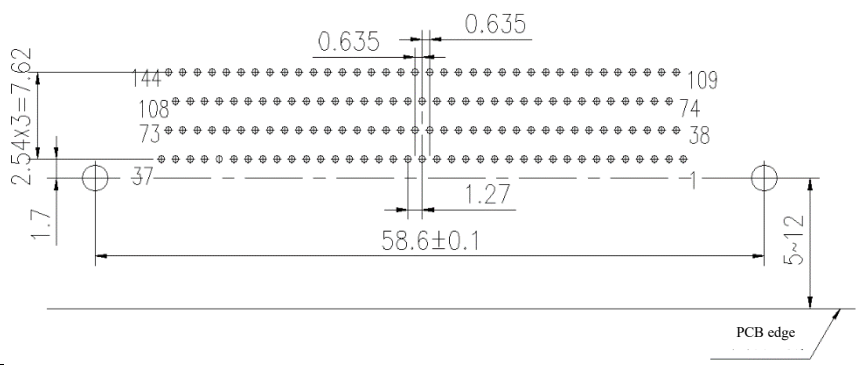
J30JR-74ZJW/W2.6/W3.5/W4.5-J



J30JR-100ZJW/W2.6/W3.5/W4.5-J

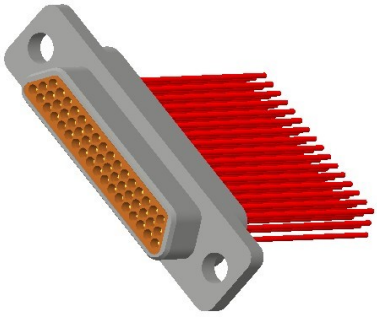
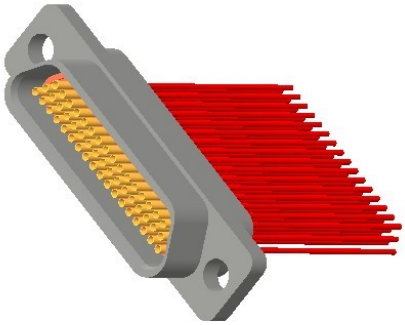
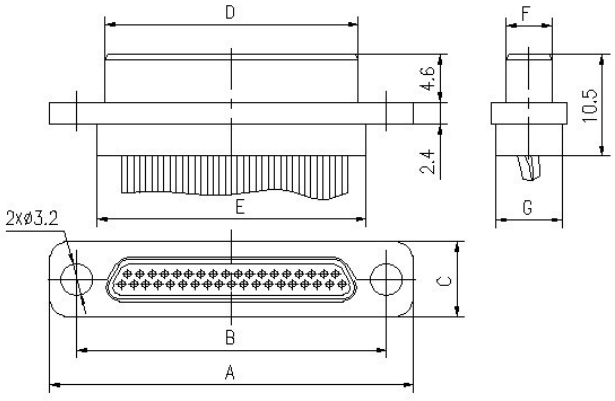
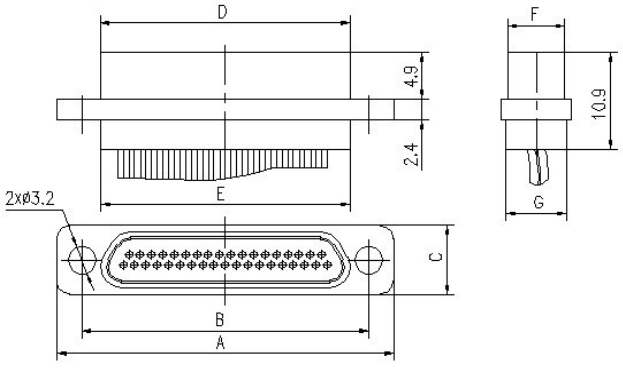


J30JR-144ZJW/W2.6/W3.5/W4.5-J



J30JS stainless steel extended type

On the basis of J30J product, the housing is changed to stainless steel. J30JS and J30J products are the same except for the color difference due to different housing materials, so its overall dimensions and mounting plate hole dimensions are the same as those of J30J products with corresponding core number and structural form.

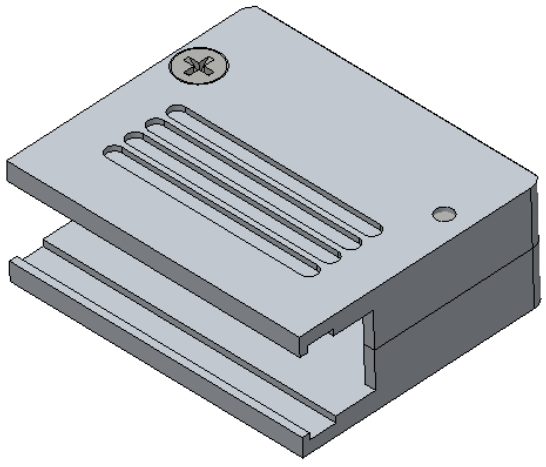
Plug: J30JS-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144TJ	Socket: J30JS-9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144ZK
	
 J30JS-XXXTJ	 J30JS-XXXZK

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	19.6	14.35	7.6	8.3	9.8	9.9	4.7	6.1	6.8
15	23.5	18.16		12.3	13.7	13.8			
21	27.4	21.97		16	17.4	17.6			
25	29.8	24.51		18.6	20	20.2			
31	33.6	28.32		22.4	23.8	24			
37	37.4	32.13		26.3	27.7	28			
51	36.4	30.86	8.7	25	26.5	26.6	5.8	7.2	7.9
66	42.9	37.3		31.4	32.9	33			
74	38.8	33.5	9.7	27.5	29	29.1	6.8	8.3	9.1
100	54.7	45.72		35	36.6	36.6		8.2	
144	66.6	58.6		49	50.6	50.6			

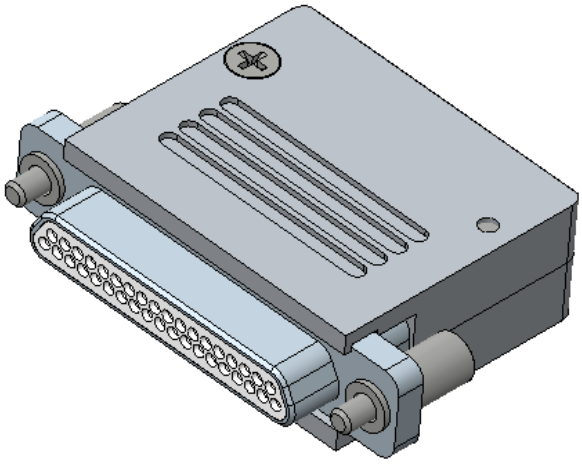
A1/A2 clamp assembly

Type A1 clamp assembly can be used with J30J basic crimping and welding series products, and the locking assembly assembled with the product shall generally be the free-end locking assembly. Type A2 clamp assembly can only be used with J30J-TJ/ZK-Q8 products. The A1/A2 clamp assembly can also be ordered separately, and the code for separate ordering is shown in the table below.

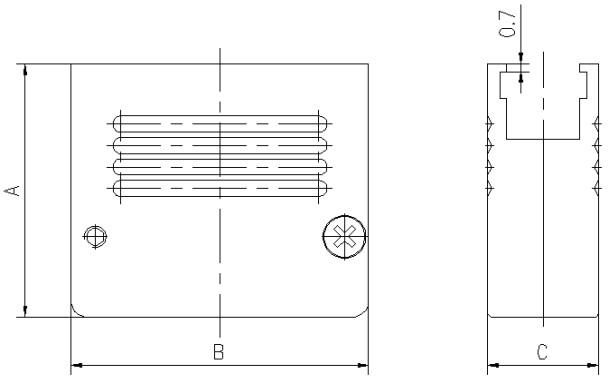
Plug/Socket: J30J-009, 015, 021, 025, 031, 037, 051, 066, 074, 100, 144-961/962



J30J-XXX-961/962



Assembly drawing of A1 clamp and product

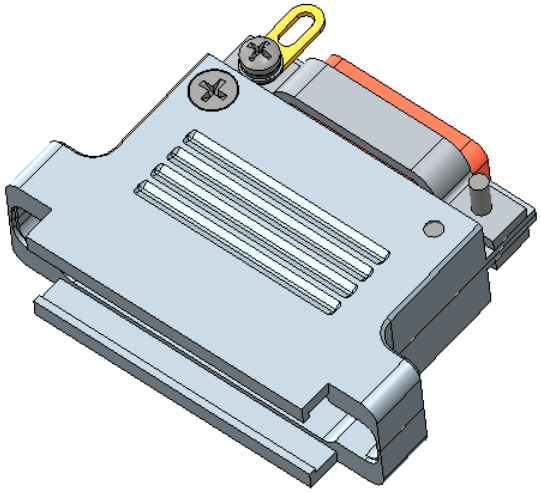


Number of cores	A (mm)		B (mm)		C (mm)	
	A1	A2	A1	A2	A1	A2
009	23.6	22	9.9	11.7	10.4	13.4
015			13.8	15.6		
021			17.6	19.4		
025			20.2	22		
031			24	25.8		
037			27.8	29.6		
051	26.6		26.6	28.4	11.2	14.6
066		—	33	—		—
074	30		29.1		12	
100			40.7			

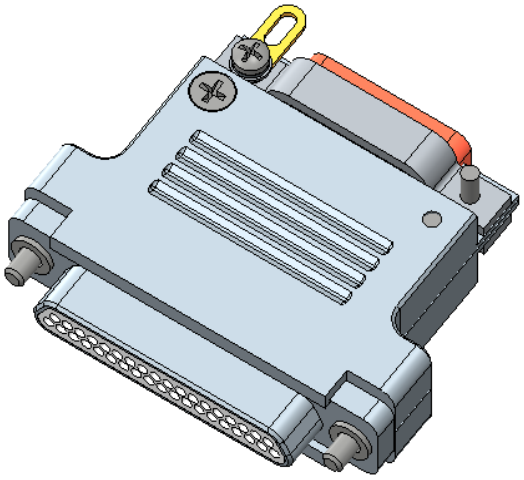
A3 clamp assembly

A3 clamp can be used together with J30J basic crimping type and welding type, and can also be ordered separately. The code for separate ordering is shown in the following table. The free-end locking assembly is usually selected for products equipped with A3 clamps.

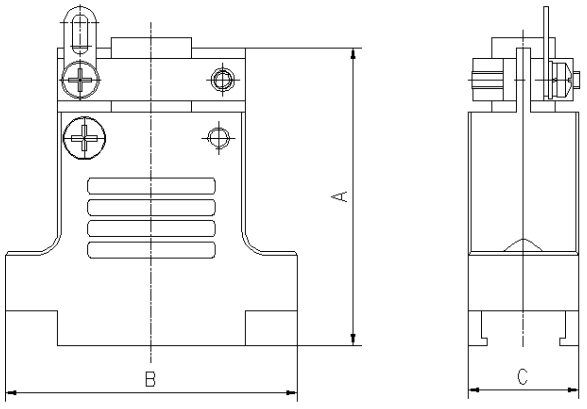
Plug/Socket: J30J-009, 015, 021, 025, 031, 037, 051, 066, 074, 100, 144-963



J30J-XXX-963



Assembly drawing of A3 clamp and product

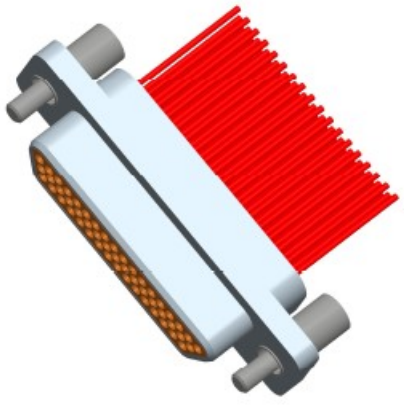
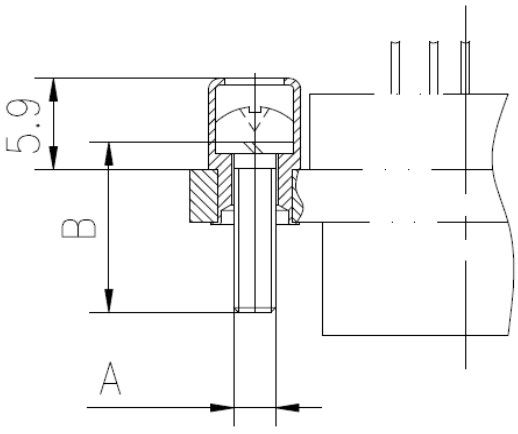


Number of cores	A (mm)	B (mm)	C (mm)
009	27	19.6	10.4
015		23.5	
021	28	27.4	
025		29.8	
031		33.6	
037		37.4	
051	30	36.4	11.2
066		42.9	
074		38.8	12
100		54.7	
144		66.6	

J30J locking assembly/J30J free-end locking assembly

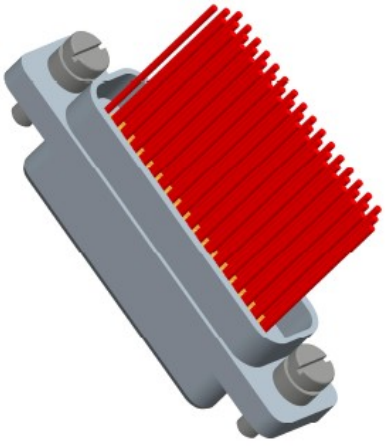
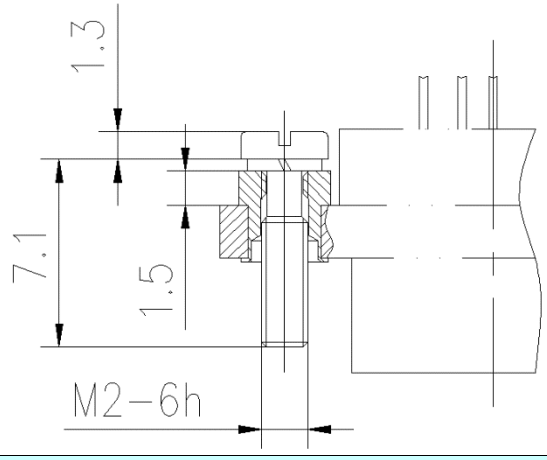
The free-end locking assembly should only be combined with J30J products to form a free-end connector, and the locking end butted with it is usually the fixed-end locking assembly.

L-type locking assembly

<table>
<tr><td>  </td><td colspan="3"> 
</td></tr>
<tr><td>J30J free-end locking assembly</td><td>A</td><td>B</td><td>Available J30J fixed-end locking assembly</td></tr>
<tr><td>L type</td><td>M2 - 6H</td><td>7.1</td><td>P, P0, P2, P3, P4, P5, P7, P8, P9, P10, P11, P14, P17, P23, P25, P29, P32, P36, P37, P41, P42, P43, P45, P46 type</td></tr>
</table>

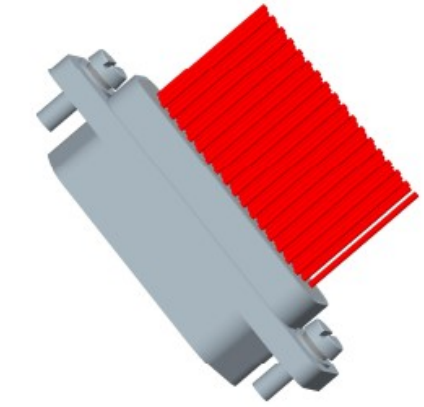
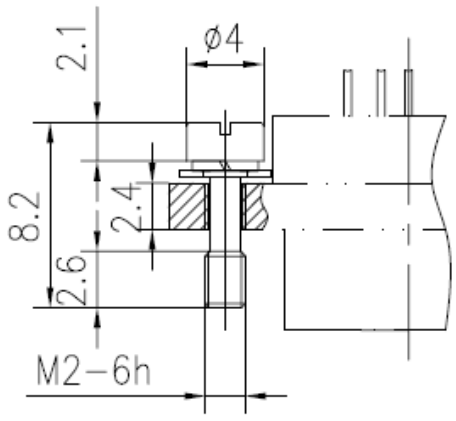
L7-type locking assembly

The L7-type locking assembly is installed in the J30J-TJ/ZK basic product, and the tail end of the screw is not higher than the end face of the tail end of the housing after tightening.

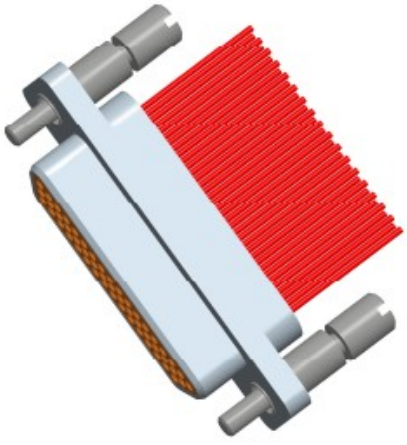
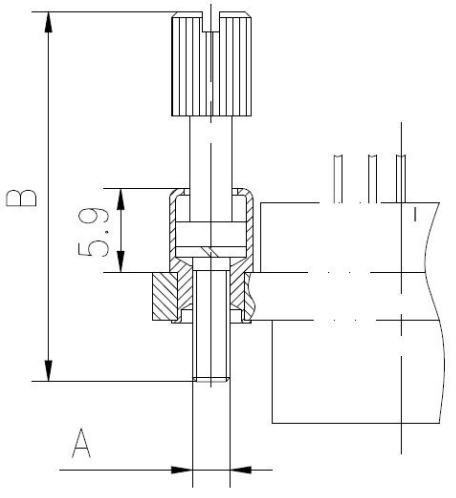
<table>
<tr><td>  </td><td> 
</td></tr>
<tr><td>J30J free-end locking assembly</td><td>Available J30J fixed-end locking assembly</td></tr>
<tr><td>L7 type</td><td>P, P0, P2, P3, P4, P5, P7, P8, P9, P10, P11, P14, P17, P23, P25, P29, P32, P36, P37, P41, P42, P43, P45, P46 type</td></tr>
</table>

L9-type locking assembly

The L9-type locking assembly can only be used in J30JD products.

	
J30J free-end locking assembly	Available J30J fixed-end locking assembly
L9 type	P, P0, P2, P3, P4, P5, P7, P8, P9, P10, P11, P14, P17, P23, P25, P29, P32, P36, P37, P41, P42, P43, P45, P46 type

K, K2 type locking assembly

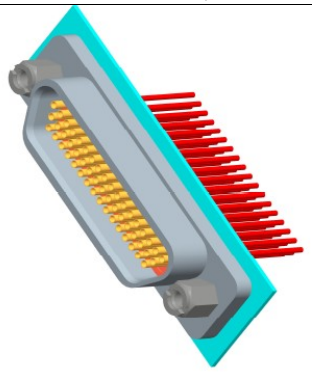
J30J free-end locking assembly	A	B	Available J30J fixed-end locking assembly
K type	M2 - 6H	17.7	P, P0, P2, P3, P4, P5, P7, P8, P9, P10, P11, P14, P17, P23, P25, P29, P32, P36, P37, P41, P42, P43, P45, P46 type
K2 type	M2 - 6H	22.7	

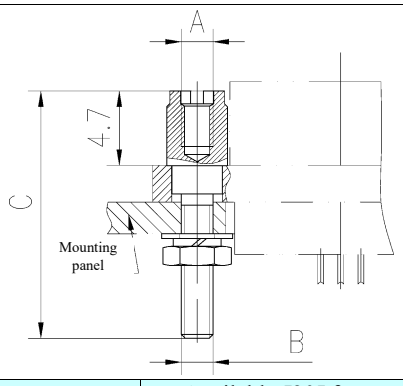
J30J locking assembly/J30J fixed-end locking assembly

The fixed-end locking assembly is suitable for fixing the connector on a mounting plate or a PCB. Most of the fixed-end locking assemblies can be butt-jointed and locked with the free-end locking assembly; a few of the fixed-end locking assemblies are only applicable to the use occasions where the free-end locking assembly is not locked with it.

P, P8, P9 type locking assembly

For installation in front of the board only.

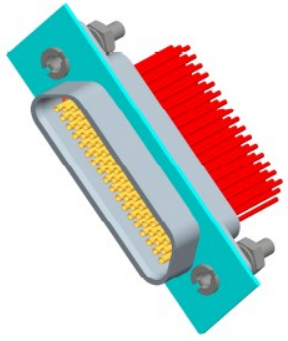


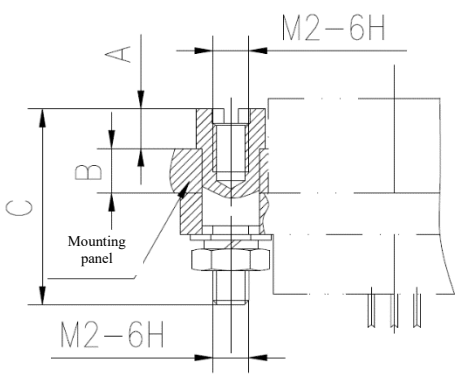


J30J fixed-end locking assembly	A	B	C	Available J30J free-end locking assembly
P type	M2-6H	M2-6h	12.7	L, L7, L9, K type
P8 type	M2-6H	M2-6h	15.6	L, L7, L9, K type
P9 type	M2-6H	M2-6h	21.6	L, L7, L9, K type

P0, P3, P4, P11, P45, P50, P52 type locking assembly

For installation behind the board only; the thickness of the mounting plate needs to be increased by 0.7 mm when the clamp assembly is selected.

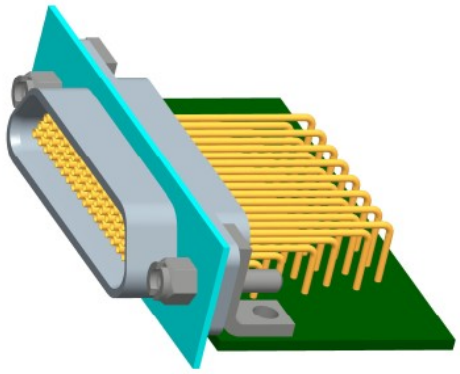


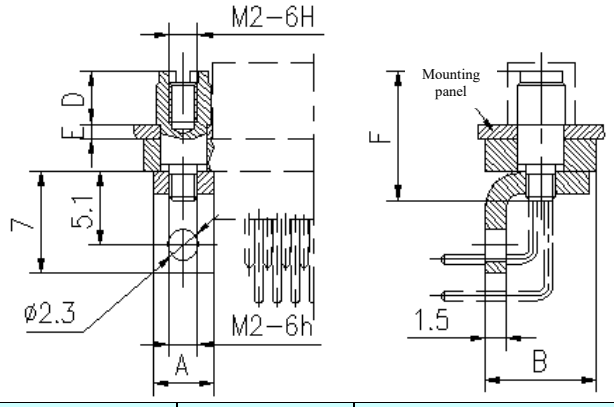


J30J fixed-end locking assembly	A	B	C	Available J30J free-end locking assembly
P0 type	4.1	0.6	12.6	L, L7, L9, K type
P3 type	3.3	1.4	12.6	
P4 type	2.5	2.2	12.6	
P11 type	1.3	3.4	12.6	
P45 type	2.7	2	20	
P50 type	0.6	4.1	12.6	
P52 type	2.2	2.5	12.6	

P2, P14 type locking assembly

Only applicable to the 90° bent PCB products installed behind the board.

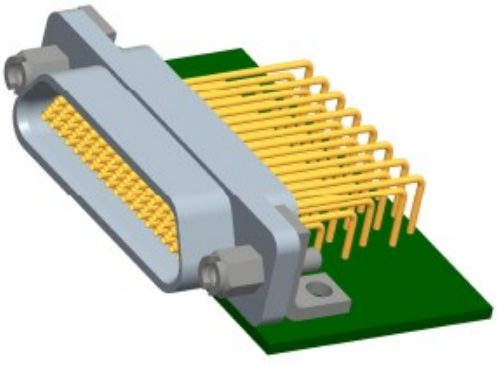


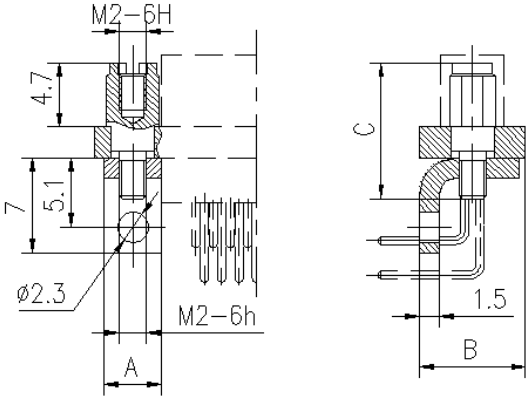


Applicable core number of J30J fixed-end locking assembly	A	B	D		E		F		Available J30J free-end locking assembly
			P2	P14	P2	P14	P2	P14	
9 ~ 37	4.2	7.6	3.7	1.7	1	3	11.6	10.7	L, L7, L9, K type
51, 66	4.2	8.7	3.7	1.7	1	3	11.6	10.7	
74	4.2	9.7	3.7	1.7	1	3	11.6	10.7	
100	8.8	9.7	3.7	1.7	1	3	11.6	10.7	
144	7.6	9.7	3.7	1.7	1	3	11.6	10.7	

P7, P42 type locking assembly

Only applicable to the 90° bent PCB products installed in front of the board.

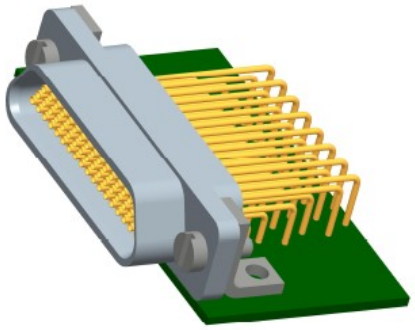


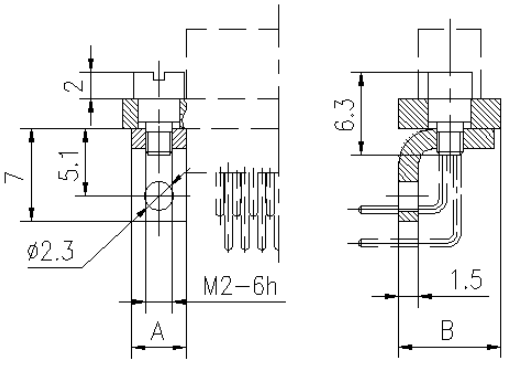


Applicable core number of J30J fixed-end locking assembly	A	B	C		Available J30J free-end locking assembly
			P7	P42	
9 ~ 37	4.2	7.6	10. 7	9.7	L, L7, L9, K type
51, 66	4.2	8.7	10.7	9.7	
74	4.2	9.7	10.7	9.7	
100	8.8	9.7	10.7	9.7	
144	7.6	9.7	10.7	9.7	

V1-type locking assembly

Only applicable to products with 90° bent PCB and without locking of plug and socket.

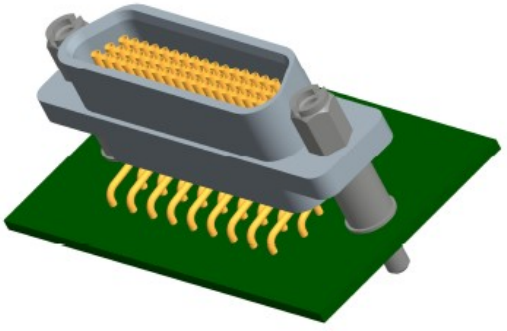


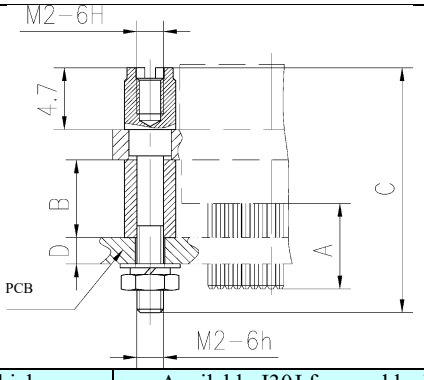


Applicable core number of J30J fixed-end locking assembly	A	B	Available J30J free-end locking assembly
9 ~ 37	4.2	7.6	—
51, 66	4.2	8.7	
74	4.2	9.7	
100	8.8	9.7	
144	7.6	9.7	

P5, P10, P23, P25, p53, P54, P55 type locking assembly

Applicable to the in-line PCB mounted products

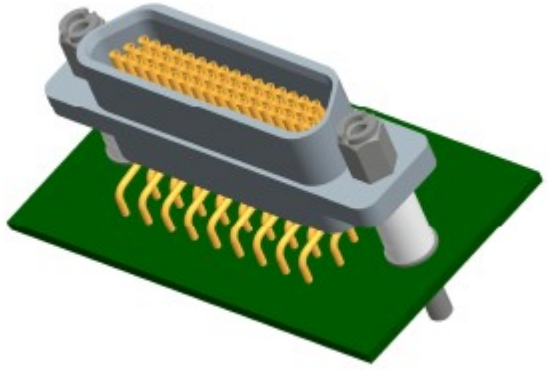


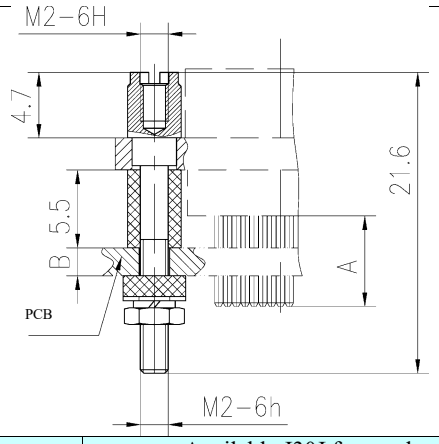


J30J fixed-end locking assembly	A	B	C	Applicable PCB thickness range D	Available J30J free-end locking assembly
P5 type	5.7	5.9	18.6	1.6 ~ 2.5	L, L7, L9, K type
P10 type	8	8.4	20.5	1.6 ~ 2.5	
P25 type	5.7	5.9	20.5	1.6 ~ 2.5	
	8	5.9	20.5	1.6 ~ 4.8	
P23 type	5.7	5.9	17.8	1.6	
P53 type	6.5	5.3	20	1.6 ~ 4.5	
P54 type	6.5	6.3	20	1.6 ~ 3.5	
P55 type	6.5	7.2	20	1.6 ~ 2.6	

P17-type locking assembly

Applicable to the in-line PCB mounted products

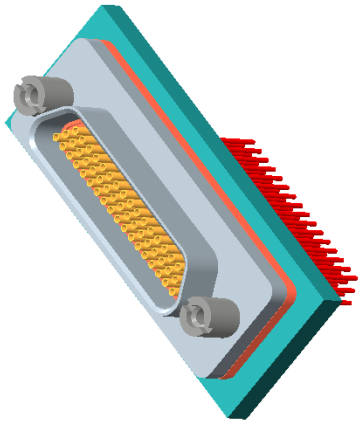


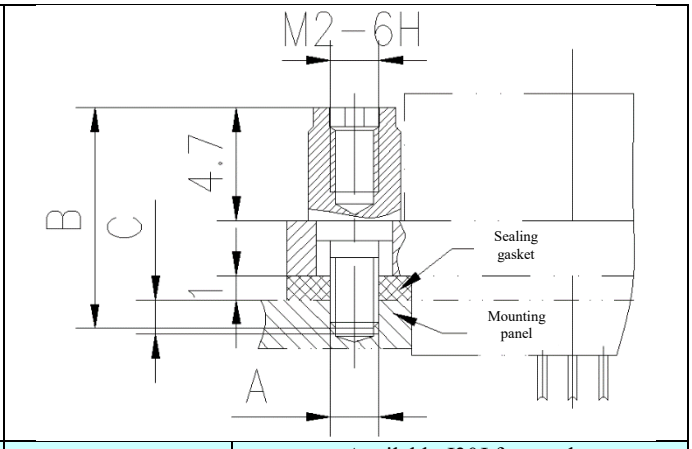


J30J fixed-end locking assembly	A	Applicable PCB thickness range B	Applicable products	Available J30J free-end locking assembly
P17 type	5.7	1.6 ~ 3	J30J-9 ~ 51TJN/ZKN J30J-9 ~ 100TJN/ZKN-J	L, L7, L9, K type
	7.2	1.6 ~ 4.5	J30J-9 ~ 51TJN4/ZKN4 J30J-9 ~ 100ZKN4-J	

P29, P36, P37, P43 type locking assembly

Applicable to J30JM sealed products and installed in front of the board.

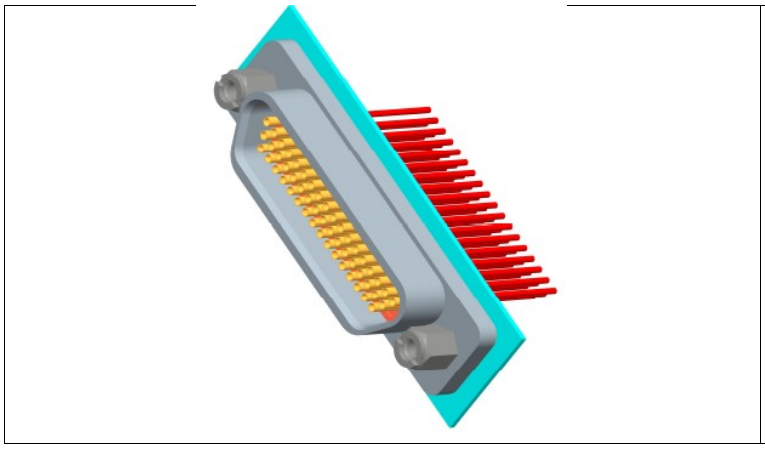


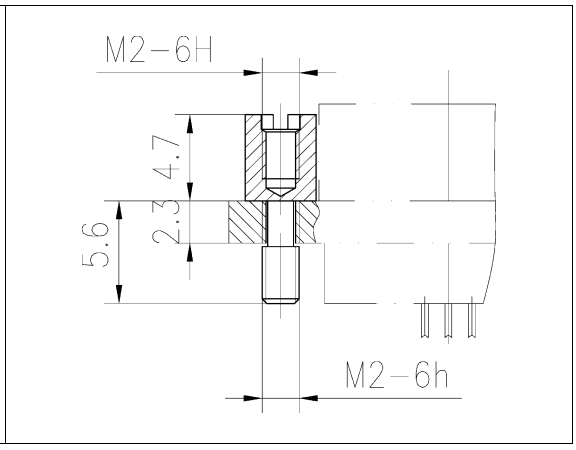


J30J fixed-end locking assembly	A	B	C	Available J30J free-end locking assembly
P29 type	M3-6h	10.5	3.3 min	L, L7, L9, K type
P36 type	M3-6h	14.7	6 min	
P37 type	M2-6h	10	2.8 min	
P43 type	M3-6h	11.7	4 min	

P46-type locking assembly

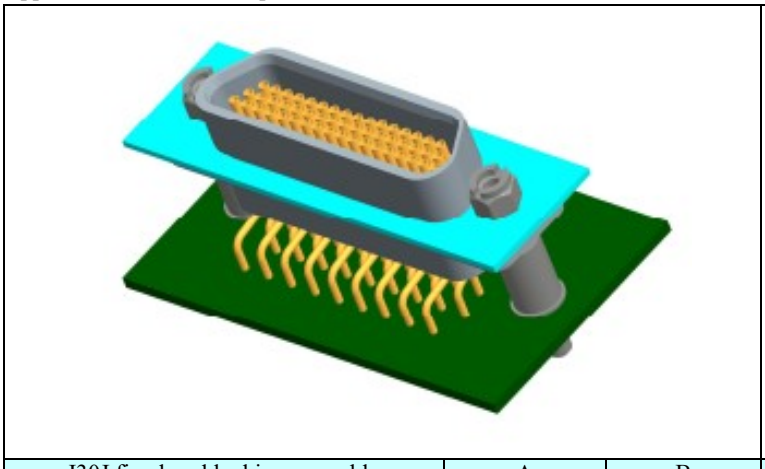
Applicable to J30JD products and installed in front of the board. It can be equipped with L, L7, L9 and K type locking assemblies.

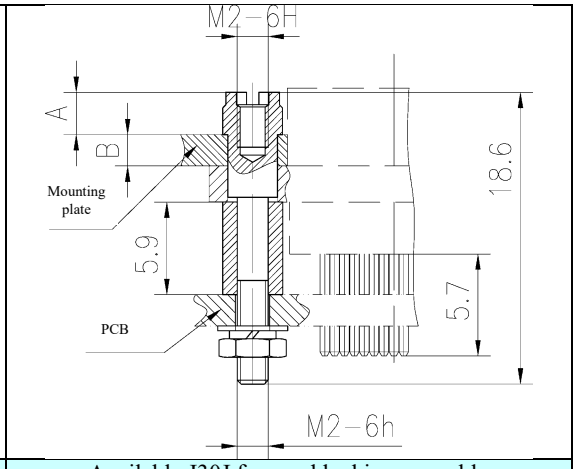




P32, P41 type locking assembly

Applicable to in-line PCB products installed behind the board. The PCB thickness is 1.6 ~ 2.5.

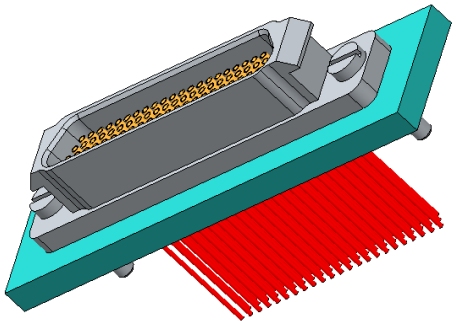
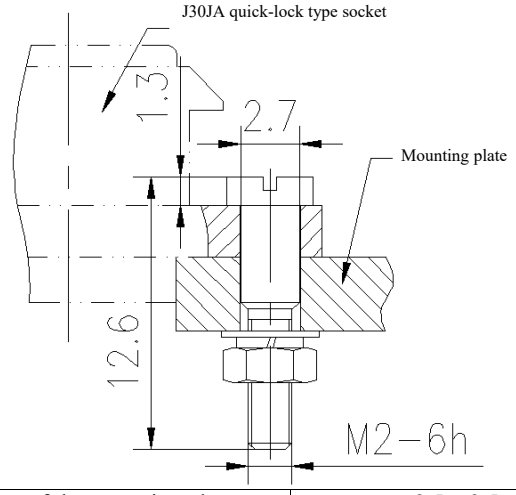
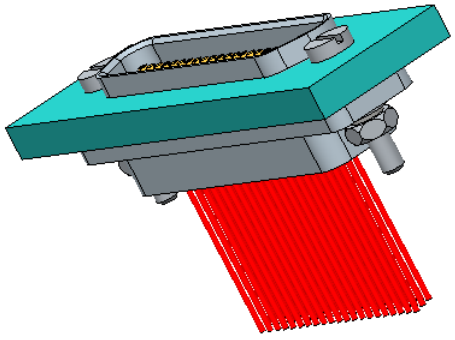
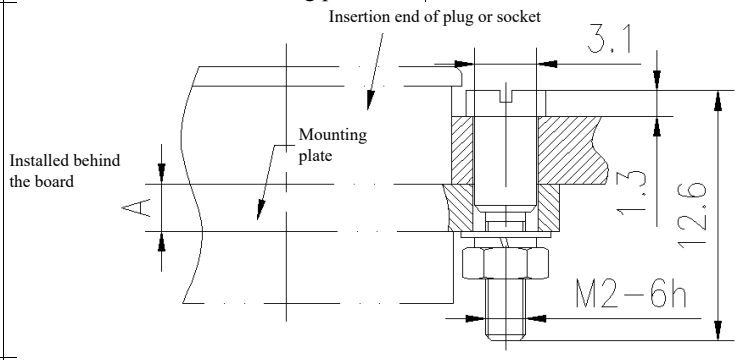
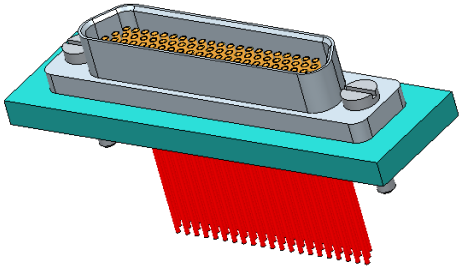
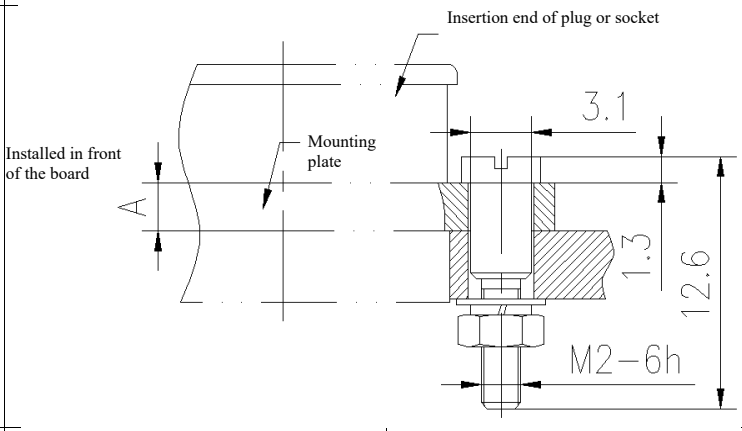




J30J fixed-end locking assembly	A	B	Available J30J free-end locking assembly
P32 type	2.7	2	L, L7, L9, K type
P41 type	3.2	1.5	
P64 type	2.5	2.2	

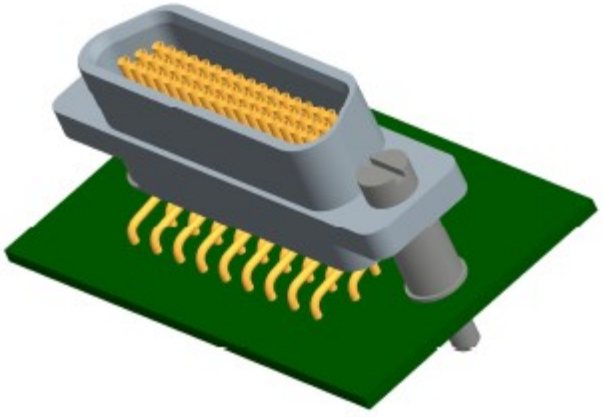
P44-type locking assembly

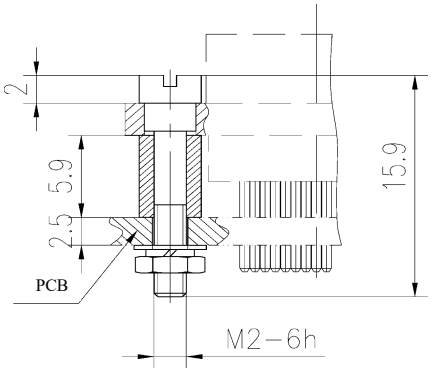
Applicable to the installation in front of or behind the board that is not locked with the free-end locking assembly. The allowable thickness of the mounting plate shall be determined according to the use condition of the product.

<table>
<tr><td rowspan="4">Suitable for quick-lock type housing</td><td>  </td><td colspan="3"> 
</td></tr>
<tr><td>Installation in front of the board</td><td colspan="2">Thickness of the mounting plate</td><td>2.5 ~ 3.5</td></tr>
<tr><td rowspan="2">  </td><td colspan="3" rowspan="2"> 
</td></tr>
<tr><td rowspan="4">Suitable for ordinary housing</td><td>  </td></tr>
<tr><td rowspan="3">Connector use conditions</td><td>Installed behind the board; the insertion end of the butted connector is not provided with the fixed-end locking assembly</td><td rowspan="3"> 
</td><td>2.5 ~ 3.4</td></tr>
<tr><td>Installation in front of the board</td><td>Thickness of the mounting plate</td><td>2.5 ~ 3.5</td></tr>
<tr><td>Installation behind the board; the insertion end of the butted connector is provided with the fixed end locking assembly</td><td>2.5 ~ (4.9 - 1.3 - the distance between the screw surface at the insertion end and its flange surface)</td></tr>
</table>

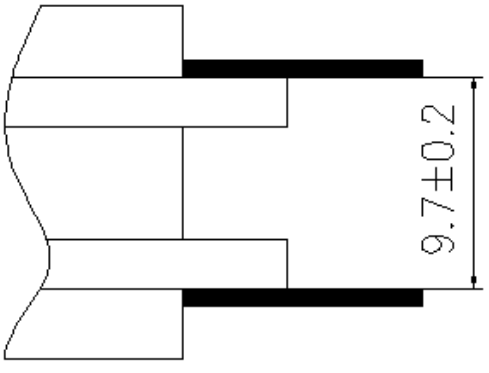
V-type locking assembly

Applicable to in-line PCB products without locking between plugs and sockets; the thickness of PCB is not more than 2.5mm.

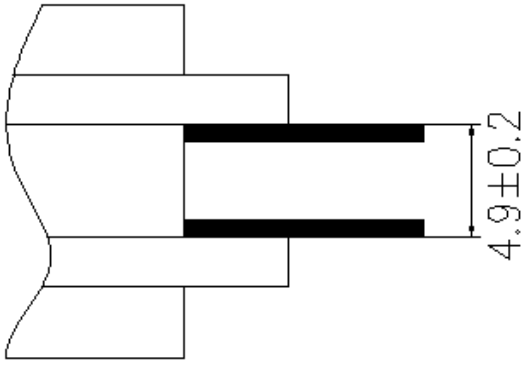




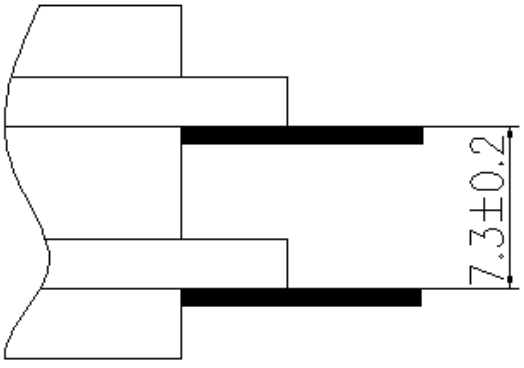
Distance dimension of mounting surface



Plugs and sockets are installed in front of the board



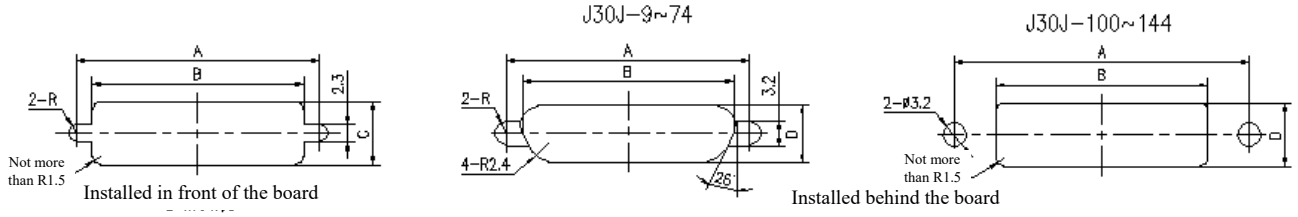
Plugs and sockets are installed behind the board



Plugs are installed in front of the board, and sockets are installed behind the board

Opening size of mounting plate

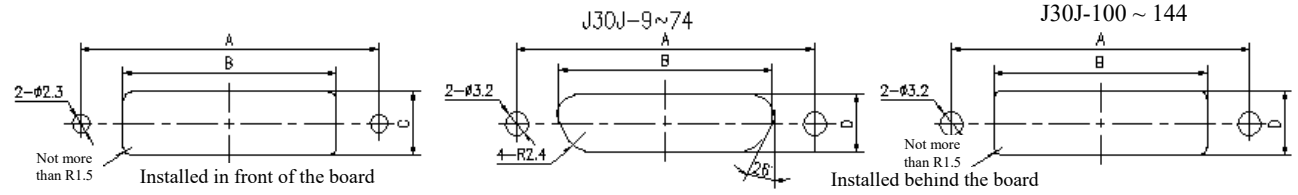
J30J-TJ/ZK; J30J-TJS/ZKS; J30J-TJ/ZK-D; J30JM-ZK; J30JM1-ZKS



Hole size for installation in front of the board				Hole size for installation behind the board			
Number of contact cores	A	B	C	Number of contact cores	A	B	D
9	14.3	10.2	7	9	14.3	10.2	6.3
15	18.2	14.1		15	18.2	14.1	
21	22	17.9		21	22	17.9	
25	24.5	20.5		25	24.5	20.5	
31	28.3	24.3		31	28.3	24.3	
37	32.2	28.1		37	32.2	28.1	
51	30.86	26.9	8.1	51	30.86	26.9	7.4
66	37.3	33.4	8.1	66	37.3	33.4	7.4
74	33.5	29.4	9.3	74	33.5	29.4	8.6
100	45.7	37	9.3	100	45.7	37	8.6
144	58.6	51	9.3	144	58.6	51	8.6

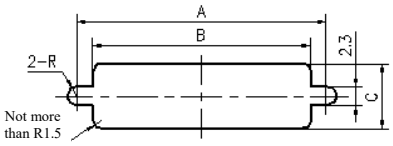
Note: As J30JM-ZK and J30JM1-ZKS are sealed products, although the mounting plate holes can be installed as shown above, the sealing effect may be lost because the mounting plate is a through-hole plate. Therefore, the mounting plate holes of these products should be blind threaded holes when they are installed in front of the board.

J30J-TJ/ZK-Q;

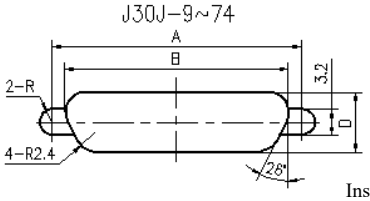


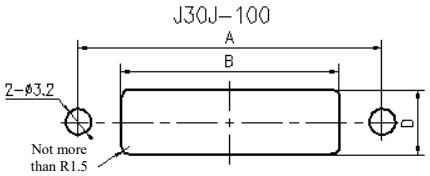
Hole size for installation in front of the board				Hole size for installation behind the board			
Number of contact cores	A	B	C	Number of contact cores	A	B	D
9	21	10.2	7	9	21	10.2	6.3
15	24.9	14.1		15	24.9	14.1	
21	28.7	17.9		21	28.7	17.9	
25	31.2	20.5		25	31.2	20.5	
31	35	24.3		31	35	24.3	
37	38.9	28.1		37	38.9	28.1	
51	37.6	26.9	8.1	51	37.6	26.9	7.4
66	44	33.4	8.1	66	44	33.4	7.4
74	40.2	29.4	9.3	74	40.2	29.4	8.6
100	52.4	37	9.3	100	52.4	37	8.6
144	73	51	9.3	144	73	51	8.6

J30J-TJ/ZK-C



Installed in front of the board

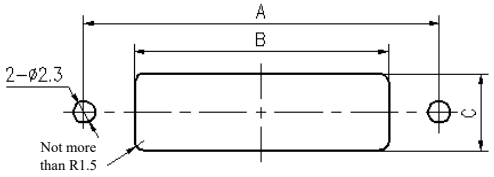




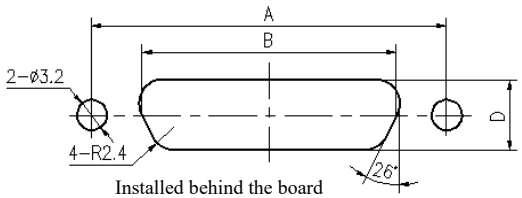
Installed behind the board

Hole size for installation in front of the board				Hole size for installation behind the board			
Number of contact cores	A	B	C	Number of contact cores	A	B	D
9	14.3	10.2	8.2	9	14.3	10.2	6.3
15	18.2	14.1		15	18.2	14.1	
21	22	17.9		21	22	17.9	
25	24.5	20.5		25	24.5	20.5	
31	28.3	24.3		31	28.3	24.3	
37	32.2	28.1		37	32.2	28.1	
51	30.86	26.9	9.3	51	30.86	26.9	7.4
66	37.3	33.4	9.3	66	37.3	33.4	7.4
74	33.5	29.4	10.3	74	33.5	29.4	8.6
100	45.7	37	10.3	100	45.7	37	8.6

J30J-TJ/ZK-Q8



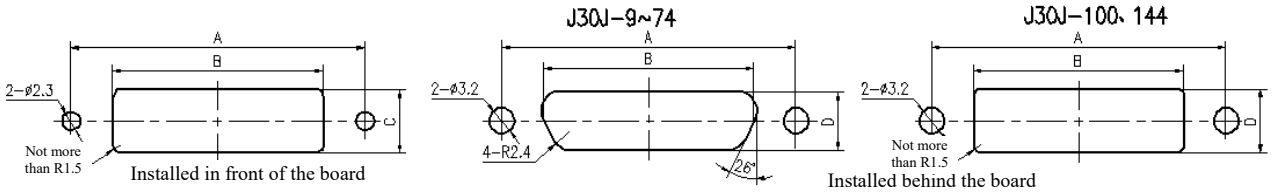
Installed in front of the board



Installed behind the board

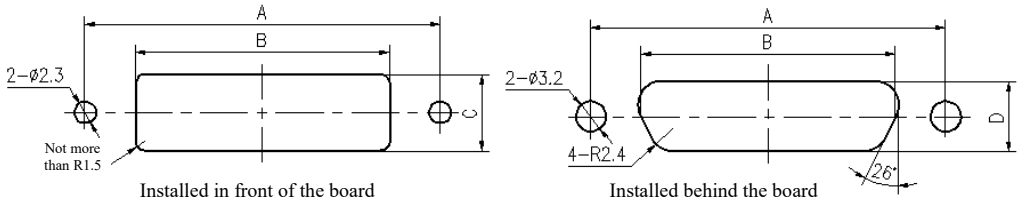
Hole size for installation in front of the board				Hole size for installation behind the board			
Number of contact cores	A	B	C	Number of contact cores	A	B	D
9	16.1	12	7	9	16.1	12	6.3
15	20	15.9		15	20	15.9	
21	23.8	19.7		21	23.8	19.7	
25	26.3	22.3		25	26.3	22.3	
31	30.1	26.1		31	30.1	26.1	
37	34	29.9		37	34	29.9	
51	32.6	28.7	8.1	51	32.6	28.7	7.4

J30J-TJ/ZK-A; J30J-TJ/ZK-AD;



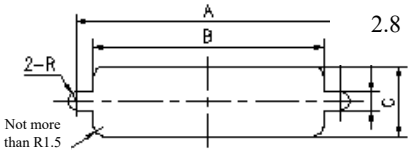
Hole size for installation in front of the board				Hole size for installation behind the board			
Number of contact cores	A	B	C	Number of contact cores	A	B	D
9	14.3	10.2	8.2	9	14.3	10.2	6.3
15	18.2	14.1		15	18.2	14.1	
21	22	17.9		21	22	17.9	
25	24.5	20.5		25	24.5	20.5	
31	28.3	24.3		31	28.3	24.3	
37	32.2	28.1		37	32.2	28.1	
51	30.86	26.9	9.2	51	30.86	26.9	7.4
66	37.3	33.4		66	37.3	33.4	
74	33.5	29.4	11.2	74	33.5	29.4	8.6
100	45.7	37		100	45.7	37	
144	58.6	51		144	58.6	51	

J30J-TJ/ZK-AQ8

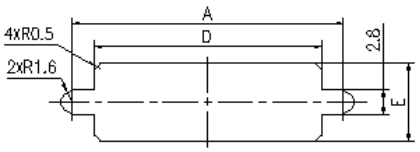


Hole size for installation in front of the board				Hole size for installation behind the board			
Number of contact cores	A	B	C	Number of contact cores	A	B	D
9	16.1	10.2	8.2	9	16.1	10.2	6.3
15	20	14.1		15	20	14.1	
21	23.8	17.9		21	23.8	17.9	
25	26.3	20.5		25	26.3	20.5	
31	30.1	24.3		31	30.1	24.3	
37	34	28.1		37	34	28.1	
51	32.6	26.9	9.2	51	32.6	26.9	7.4

J30JA-ZK



Installed in front of the board

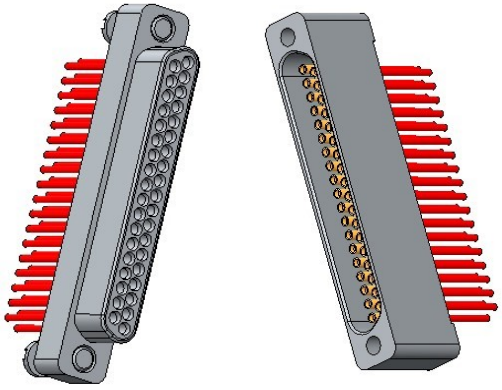


Installed behind the board

Hole size for installation in front of the board				Hole size for installation behind the board			
Number of contact cores	A	B	C	Number of contact cores	A	D	E
9	18.6	10.1	7	9	18.6	14.6	6.7
15	22.6	14		15	22.6	18.4	
21	26.3	17.8		21	26.3	22.3	
25	28.9	20.4		25	28.9	24.9	
31	32.7	24.2		31	32.7	28.6	
37	36.6	28		37	36.6	32.4	
51	35.3	26.8	8.1	51	35.3	31.3	7.8
66	41.7	33.3		66	41.7	37.7	
74	37.8	29.3	9.3	74	37.8	33.8	9
100	45.3	38		100	45.3	41.3	
144	59.3	51		144	59.3	55.3	

J30JZ Series Micro-rectangular Electrical Connector

Product Overview



- Trapezoidal housing positioning, in-line micro-rectangular electrical connector;
- The contact adopting flexible twist pins and rigid Jack structure;
- The size is only about 40% of that of J30J products with the same core number, and the spectrum is the same as that of J30J;
- Number of cores: 9, 15, 21, 25, 31, 37, 51, 66, 74, and 100 cores;
- Execute enterprise standard: Q/Ag 1.306 Detailed Specification for J30JZ Series Micro-rectangular Electrical Connectors (in accordance with MIL-C-83513);

Product Performance

Mechanical Properties

Housing	Aluminum alloy, stainless steel	Mechanical life	500 plugging and unplugging cycles
Plating	Nickel plating, passivation	Sinusoidal vibration	Frequency 10 ~ 2000 Hz, Acceleration 196 m/s^2
Insulator	Thermoplastic		
Contact	Gold-plated copper alloy, crimping type, welding type, PCB type	Random vibration	$0.4G^2/Hz$ 23.1G
		Impact	$490m/s^2$

Electrical Performance

Contact resistance and rated current of contacts

Contact Specification	Contact resistance mΩ		Rated current A
	Before lifetime	After lifetime	
Twist pins	≤10	≤20	3

Magnetic permeability	Not more than 2.0
Insulation resistance	under normal conditions ≥ 5000 MΩ; under damp and hot conditions ≥ 1 MΩ
Withstand voltage	under normal conditions ≥ 600Vrms; under damp and hot conditions ≥ 360Vrms, Under low pressure conditions ≥ 150Vrms

Environmental Performance

Temperature range	-55 ℃ ~ +125 ℃	Working air pressure	101.33 kPa ~ 4.39 kPa
Salt spray	48h	Relative humidity	90% ~ 95% at 40 ℃

Model Designation

	J30JZ	PE	N	51	ZK	CA	000	(Additional Information)
Code of main designation	J30JZ: Socket with rigid hole as the contact J30JZ/X: Plug with twist pin as the contact							
Housing structure		No indication - Free-end plug housing and vertically-mounted socket housing P - Vertically-mounted plug housing L - Horizontally-mounted plug and socket housing PE - Vertically-mounted socket-variant housing						
Materials and surface treatment			N - Aluminum alloy electroplated with nickel S - Stainless steel passivation					
Number of contacts				9, 15, 21, 25, 31, 37, 51, 66, 74, and 100 cores				
Types of connectors and contacts					TJ - Plug installed with pins ZK - Socket installed with jacks (TJ and ZK are fixed collocation)			
Contact Tail type						CA - Crimping; SA - Welding; NA - In-line PCB; WA - Bent PCB		
Locking assembly type							000 - without locking assembly; P01, P02 - locking assembly with mounting screws; L01, L02 - with locking screws	
Additional Information								Wire requirements: See Table 1, for crimping type products only

Table 1

No.	Classification feature	Classification content	Mark code
1	Wire color	R: red; W: white; M: purple; G: green; A: gray; U: blue; Y: yellow; B: black; N: orange;	R, W, M, G, A, U, Y, B, N
2	L	Connector with wires	L
3	Wire length	1000: wire length value in mm	1000
4	Wire specification	A: 0.15mm^2 AFR-250 B: 0.12mm^2 AFR-250 D: 0.15mm^2 AFRP-250 F: 0.15mm^2 AF-250 etc.	A, B, D, F etc.
5	Additional requirements	No indication: no additional requirements 1: Wire jacket nylon sleeve 2: Wire jacket anti-wave sleeve 3: Wire jacket anti-wave sleeve and nylon sleeve 4: Marker at the end of wire, etc.	1, 2,3, 4, etc.

Note: 1. J30JZPENXXXZKCA000 socket is mainly applicable to the use environment of free-end wire throwing that needs to be butted and locked;

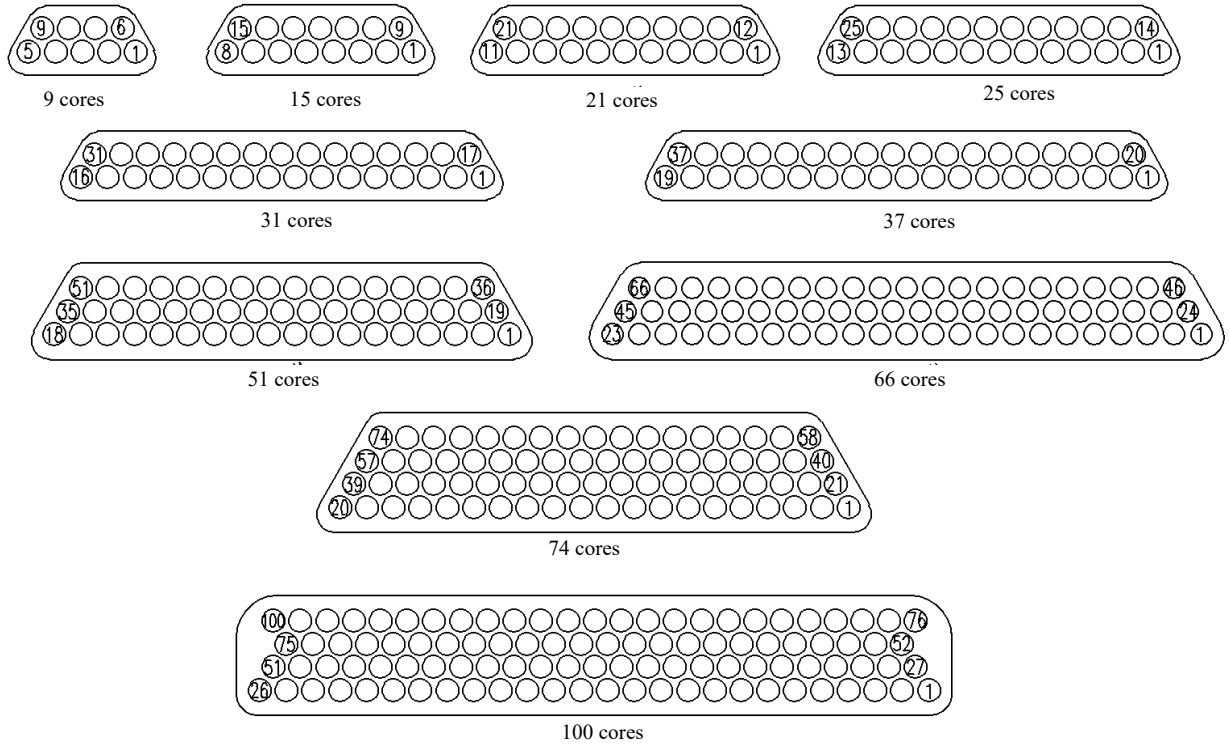
2. The 74 and 100-core leads of J30JZ in-line PCB series are Φ0.4mm to reduce the diameter of PCB pad (Φ0.55mm) and reduce the difficulty of PCB layout process for users.

Example of Model:

J30JZ/XN37TJCAL01(WL150A3)

The above marks indicate that the connector adopts the plug with twist pin as the contact, the free-end plug housing, nickel-plated aluminum alloy housing as the housing material, 37 cores, the crimping contact tail, and the L01-type locking assembly; each hole is crimped with 150mm white AFR-250 wire with a cross-sectional area of 0.15mm^2. The wire harness is covered with an anti-wave sleeve and a nylon sleeve.

J30JZ Spectrum Arrangement (View of Pin-mounted Insulator Insertion Surface)



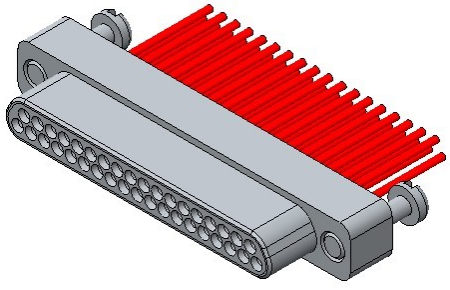
Classification of J30JZ Series Plug and Socket

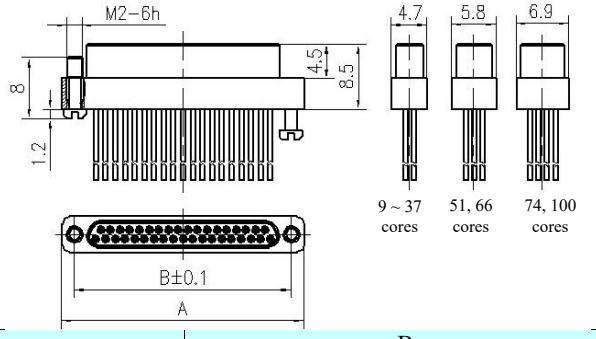
Plug and socket type	Basic Identification	Structural Features
Crimping type	Plug J30JZ/XNXXXTJCAL01 (wire)	Free-end, wire welding, with locking screws
	Plug J30JZ/XPNXXXTJCAP01 (wire)	Vertical installation, wire crimping, with mounting screws
	Socket J30JZNXXXZKCA000 (wire)	Vertical installation (optional), wire crimping, without locking assembly
	Socket J30JZPENXXXZKCA000 (wire)	The overall dimensions are the same as those of J30JZNXXXZKCA000 series products, and L02 locking screw shall be selected when it needs to be connected and locked with the plug
	Socket J30JZLNXXXZKCA000 (wire)	Horizontal installation, wire crimping, without locking assembly
Welding type	Plug J30JZ/XNXXXTJSAL01	Free-end, wire welding, with locking screws
	Plug J30JZ/XPNXXXTJSAP01	Vertical installation, wire welding, with mounting screws
	Socket J30JZNXXXZKSA000	Vertical installation (optional), wire welding, without locking assembly
	Socket J30JZLNXXXZKSA000	Horizontal installation, wire welding, without locking assembly
In-line PCB type	Plug J30JZ/XPNXXXTJNAP01	Vertical installation, in-line PCB, with mounting screws, PCB thickness of 2.5mm (max)
	Plug J30JZ/XPENXXXTJNAL04	Vertical installation, in-line PCB, with locking screws, PCB thickness of 2mm (max)
	Socket J30JZPNXXXZKNA000	Vertical installation, in-line PCB, without locking assembly, PCB thickness of 2.5mm (max)
Bent PCB type	Plug J30JZ/XLNXXXTJWA000	Horizontal installation, bent PCB, without locking assembly, PCB thickness of 2mm (max)
	Socket J30JZLNXXXZKWA000	Horizontal installation, bent PCB, without locking assembly, PCB thickness of 2mm (max)

Overall and Installation Dimensions

Basic plug J30JZ/X crimping type: J30JZ/XNXXXTJCAL01

Product with free-end housing structure

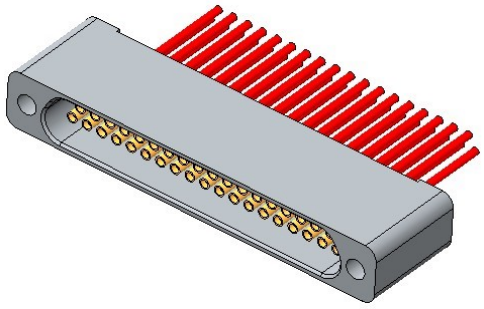


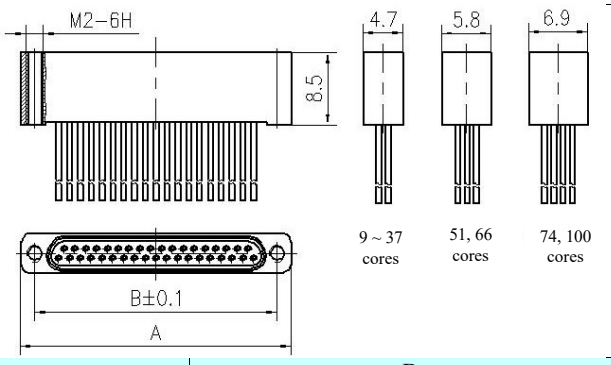


Order Mark	A	B
J30JZ/XN9TJCAL01 (wire)	14	10.6
J30JZ/XN15TJCAL01 (wire)	17.8	14.4
J30JZ/XN21TJCAL01 (wire)	21.6	18.2
J30JZ/XN25TJCAL01 (wire)	24.2	20.8
J30JZ/XN31TJCAL01 (wire)	28	24.6
J30JZ/XN37TJCAL01 (wire)	31.8	28.4
J30JZ/XN51TJCAL01 (wire)	30.5	27.1
J30JZ/XN66TJCAL01 (wire)	36.9	33.5
J30JZ/XN74TJCAL01 (wire)	33.1	29.7
J30JZ/XN100TJCAL01 (wire)	40.7	37.3

Basic socket J30JZ crimping type: J30JZNXXXZKCA000

Vertical installation (optional)

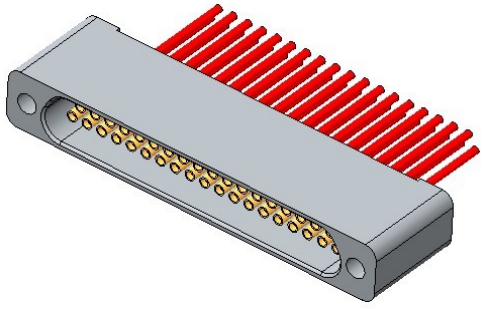


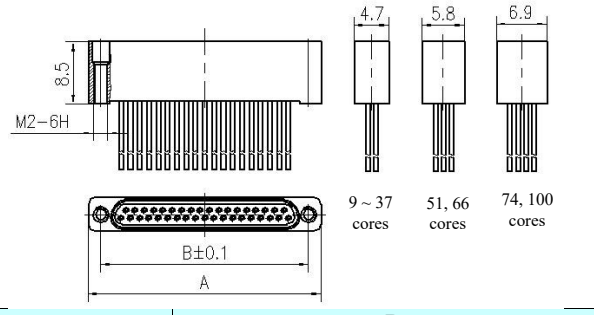


Order Mark	A	B
J30JZN9ZKCA000 (wire)	14	10.6
J30JZN15ZKCA000 (wire)	17.8	14.4
J30JZN21ZKCA000 (wire)	21.6	18.2
J30JZN25ZKCA000 (wire)	24.2	20.8
J30JZN31ZKCA000 (wire)	28	24.6
J30JZN37ZKCA000 (wire)	31.8	28.4
J30JZN51ZKCA000 (wire)	30.5	27.1
J30JZN66ZKCA000 (wire)	36.9	33.5
J30JZN74ZKCA000 (wire)	33.1	29.7
J30JZN100ZKCA000 (wire)	40.7	37.3

Basic socket J30JZ crimping type: J30JZPENXXXZKCA000

Vertically-mounted modified housing structure; the L02 locking screw shall be selected when it needs to be locked with the plug

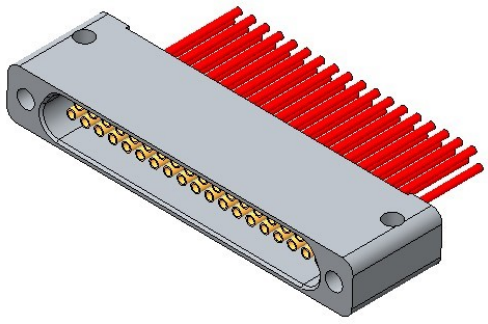


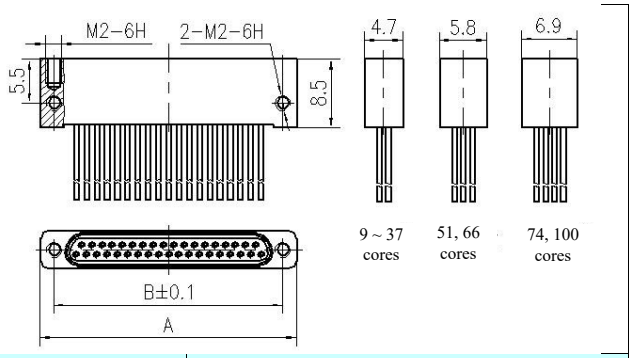


Order Mark	A	B
J30JZPEN9ZKCA000 (wire)	14	10.6
J30JZPEN15ZKCA000 (wire)	17.8	14.4
J30JZPEN21ZKCA000 (wire)	21.6	18.2
J30JZPEN25ZKCA000 (wire)	24.2	20.8
J30JZPEN31ZKCA000 (wire)	28	24.6
J30JZPEN37ZKCA000 (wire)	31.8	28.4
J30JZPEN51ZKCA000 (wire)	30.5	27.1
J30JZPEN66ZKCA000 (wire)	36.9	33.5
J30JZPEN74ZKCA000 (wire)	33.1	29.7
J30JZPEN100ZKCA000 (wire)	40.7	37.3

Basic socket J30JZ crimping type: J30JZLNXXXZKCA000

Horizontal installation structure

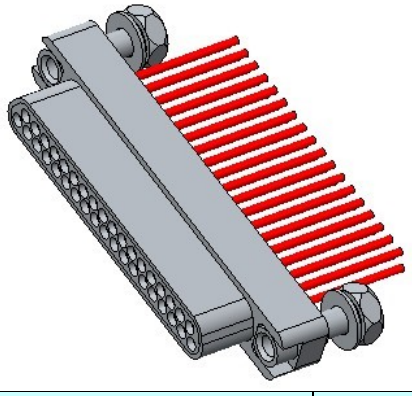


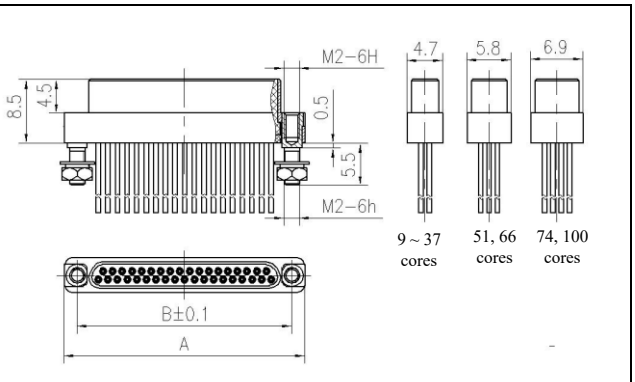


Order Mark	A	B
J30JZLN9ZKCA000 (wire)	14	10.6
J30JZLN15ZKCA000 (wire)	17.8	14.4
J30JZLN21ZKCA000 (wire)	21.6	18.2
J30JZLN25ZKCA000 (wire)	24.2	20.8
J30JZLN31ZKCA000 (wire)	28	24.6
J30JZLN37ZKCA000 (wire)	31.8	28.4
J30JZLN51ZKCA000 (wire)	30.5	27.1
J30JZLN66ZKCA000 (wire)	36.9	33.5
J30JZLN74ZKCA000 (wire)	33.1	29.7
J30JZLN100ZKCA000 (wire)	40.7	37.3

Basic plug J30JZ/X crimping type: J30JZ/XPNXXXTJCAP01

Vertically-mounted housing structure

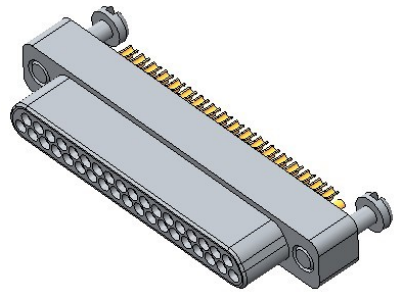


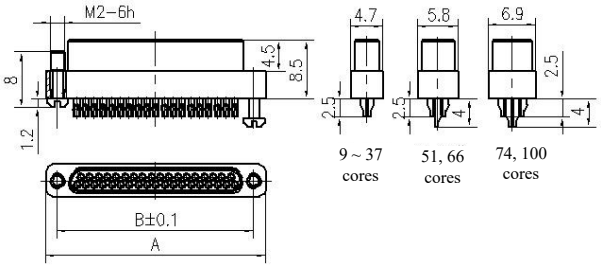


Order Mark	A	B
J30JZ/XPN9TJCAP01 (wire)	14	10.6
J30JZ/XPN15TJCAP01 (wire)	17.8	14.4
J30JZ/XPN21TJCAP01 (wire)	21.6	18.2
J30JZ/XPN25TJCAP01 (wire)	24.2	20.8
J30JZ/XPN31TJCAP01 (wire)	28	24.6
J30JZ/XPN37TJCAP01 (wire)	31.8	28.4
J30JZ/XPN51TJCAP01 (wire)	30.5	27.1
J30JZ/XPN66TJCAP01 (wire)	36.9	33.5
J30JZ/XPN74TJCAP01 (wire)	33.1	29.7
J30JZ/XPN100TJCAP01 (wire)	40.7	37.3

Welding plug J30JZ/X: J30JZ/XNXXXTJSAL01

Free-end housing structure

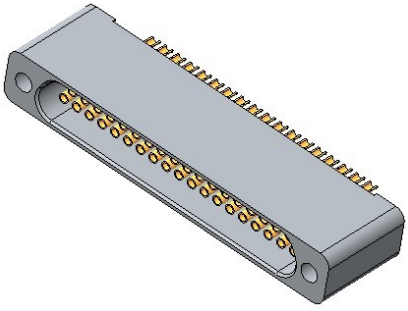


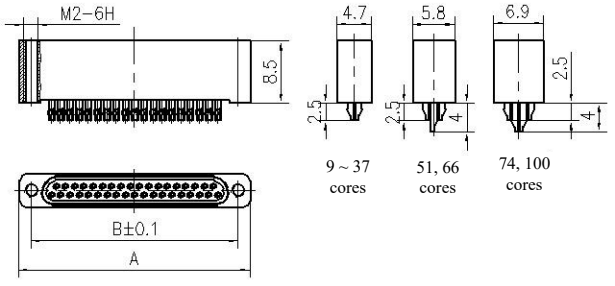


Order Mark	A	B
J30JZ/XN9TJSAL01	14	10.6
J30JZ/XN15TJSAL01	17.8	14.4
J30JZ/XN21TJSAL01	21.6	18.2
J30JZ/XN25TJSAL01	24.2	20.8
J30JZ/XN31TJSAL01	28	24.6
J30JZ/XN37TJSAL01	31.8	28.4
J30JZ/XN51TJSAL01	30.5	27.1
J30JZ/XN66TJSAL01	36.9	33.5
J30JZ/XN74TJSAL01	33.1	29.7
J30JZ/XN100TJSAL01	40.7	37.3

Welding socket J30JZ: J30JZNXXXZKSA000

Free-end housing structure (Vertical installation (optional))

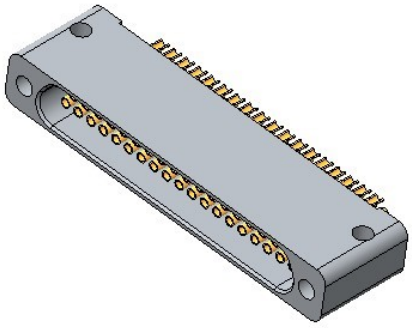


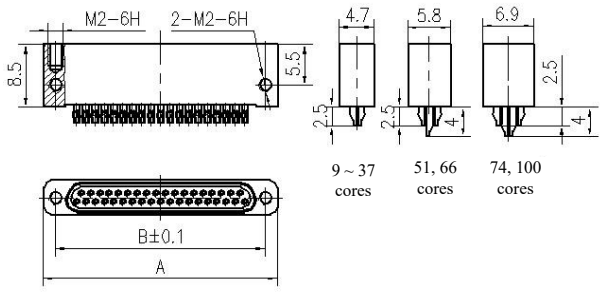


Order Mark	A	B
J30JZN9ZKSA000	14	10.6
J30JZN15ZKSA000	17.8	14.4
J30JZN21ZKSA000	21.6	18.2
J30JZN25ZKSA000	24.2	20.8
J30JZN31ZKSA000	28	24.6
J30JZN37ZKSA000	31.8	28.4
J30JZN51ZKSA000	30.5	27.1
J30JZN66ZKSA000	36.9	33.5
J30JZN74ZKSA000	33.1	29.7
J30JZN100ZKSA000	40.7	37.3

Welding socket J30JZ: J30JZLNXXXZKSA000

Horizontal installation structure

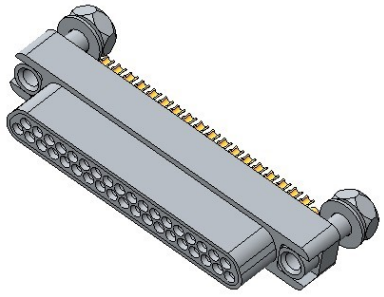


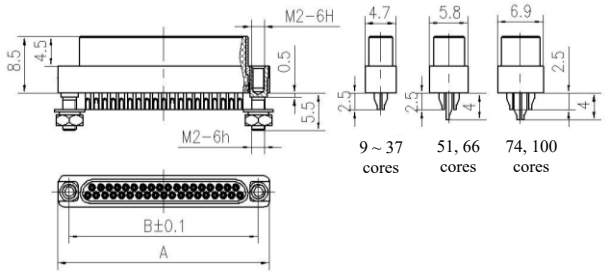


Order Mark	A	B
J30JZLN9ZKSA000	14	10.6
J30JZLN15ZKSA000	17.8	14.4
J30JZLN21ZKSA000	21.6	18.2
J30JZLN25ZKSA000	24.2	20.8
J30JZLN31ZKSA000	28	24.6
J30JZLN37ZKSA000	31.8	28.4
J30JZLN51ZKSA000	30.5	27.1
J30JZLN66ZKSA000	36.9	33.5
J30JZLN74ZKSA000	33.1	29.7
J30JZLN100ZKSA000	40.7	37.3

Welding plug J30JZ/X: J30JZ/XPNXXXTJSAP01

Vertically-mounted housing structure

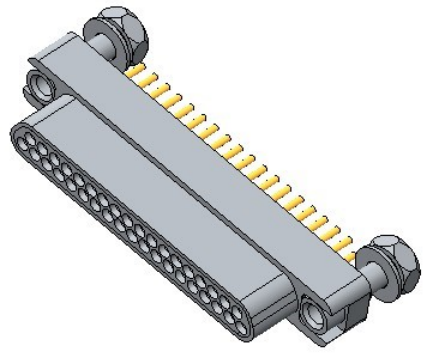


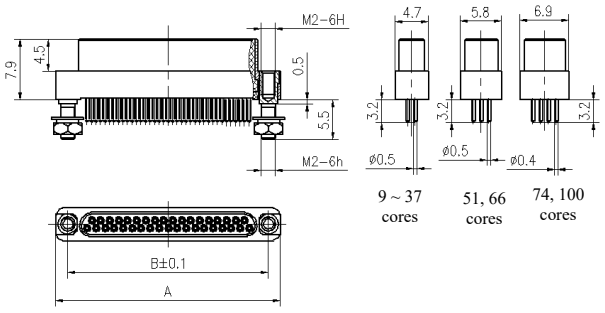


Order Mark	A	B
J30JZ/XPN9TJSAP01	14	10.6
J30JZ/XPN15TJSAP01	17.8	14.4
J30JZ/XPN21TJSAP01	21.6	18.2
J30JZ/XPN25TJSAP01	24.2	20.8
J30JZ/XPN31TJSAP01	28	24.6
J30JZ/XPN37TJSAP01	31.8	28.4
J30JZ/XPN51TJSAP01	30.5	27.1
J30JZ/XPN66TJSAP01	36.9	33.5
J30JZ/XPN74TJSAP01	33.1	29.7
J30JZ/XPN100TJSAP01	40.7	37.3

In-line plug J30JZ/X: J30JZ/XPNXXXTJNAP01

Vertical installation, suitable for PCB thickness: 2.5mm (max), grid spacing (spacing × row spacing): 1.27 mm × 1.1mm

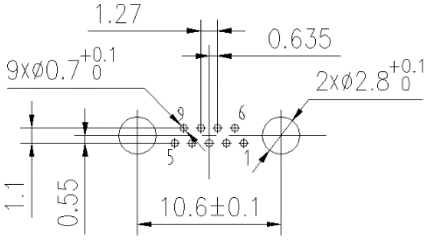




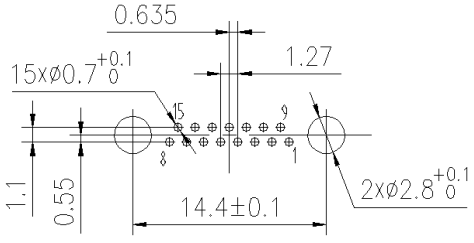
Order Mark	A	B
J30JZ/XPN9TJNAP01	14	10.6
J30JZ/XPN15TJNAP01	17.8	14.4
J30JZ/XPN21TJNAP01	21.6	18.2
J30JZ/XPN25TJNAP01	24.2	20.8
J30JZ/XPN31TJNAP01	28	24.6
J30JZ/XPN37TJNAP01	31.8	28.4
J30JZ/XPN51TJNAP01	30.5	27.1
J30JZ/XPN66TJNAP01	36.9	33.5
J30JZ/XPN74TJNAP01	33.1	29.7
J30JZ/XPN100TJNAP01	40.7	37.3

Hole size of J30JZ series in-line PCB plug: J30JZ/XPNXXXTJNAP01 (grid spacing 1.27 mm × 1.1mm)

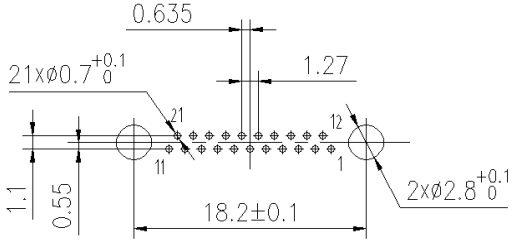
J30JZ/XPN9TJNAP01



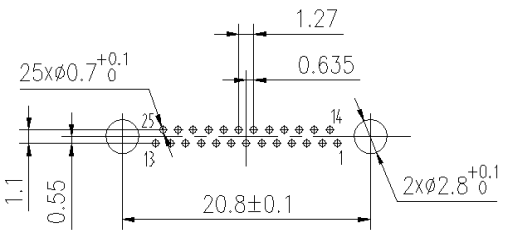
J30JZ/XPN15TJNAP01



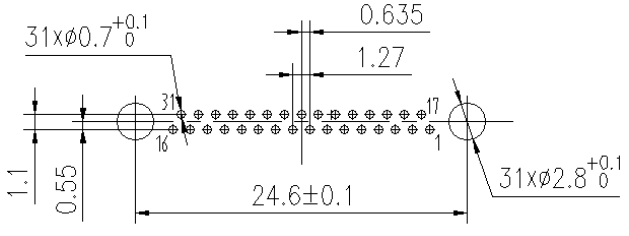
J30JZ/XPN21TJNAP01



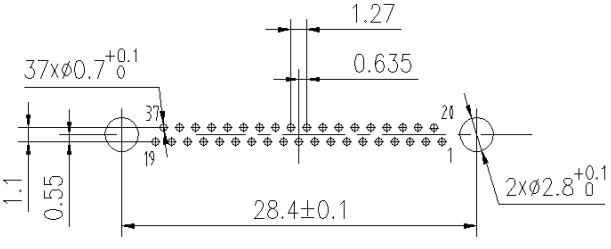
J30JZ/XPN25TJNAP01



J30JZ/XPN31TJNAP01



J30JZ/XPN37TJNAP01



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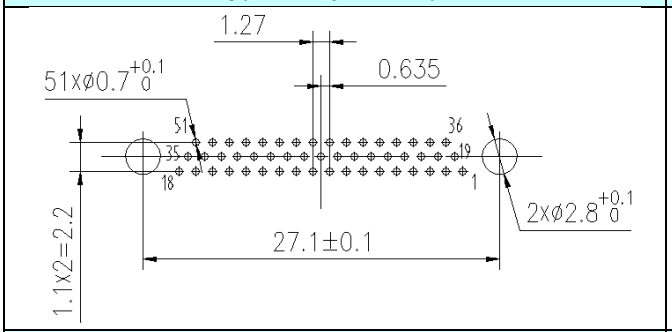
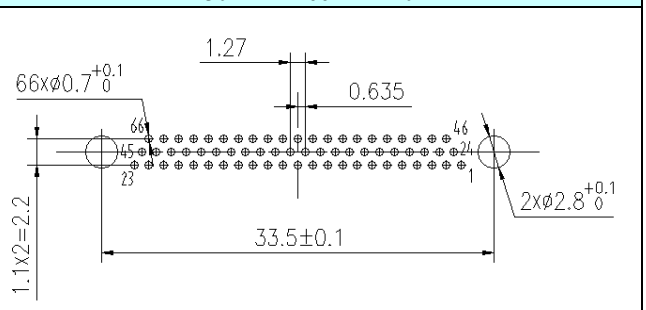
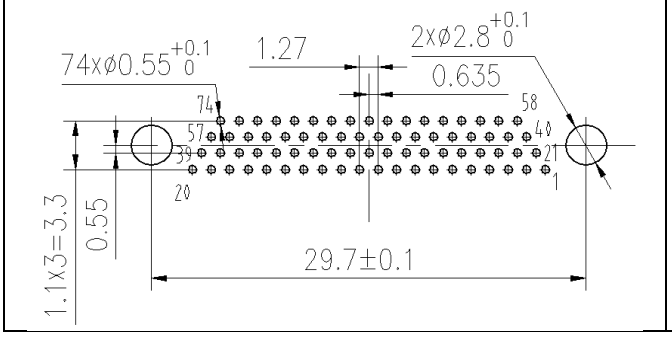
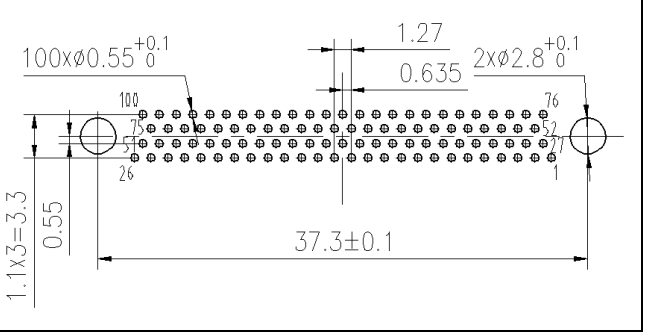
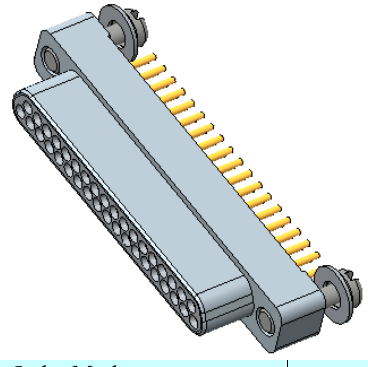
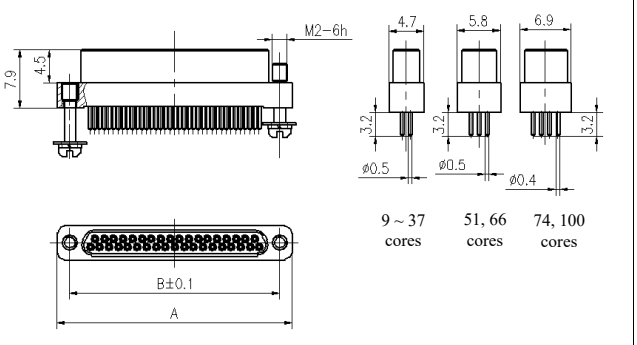
	
J30JZ/XPN74TJNAP01	**J30JZ/XPN100TJNAP01**
	

In-line plug J30JZ/X: J30JZ/XPENXXXTJNAL04

Vertical installation, suitable for PCB thickness: 2mm (max), grid spacing (spacing × row spacing): 1.27 mm × 1.1mm

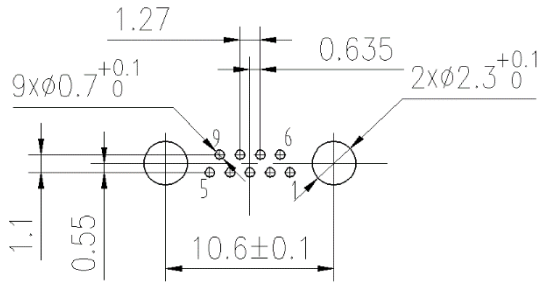




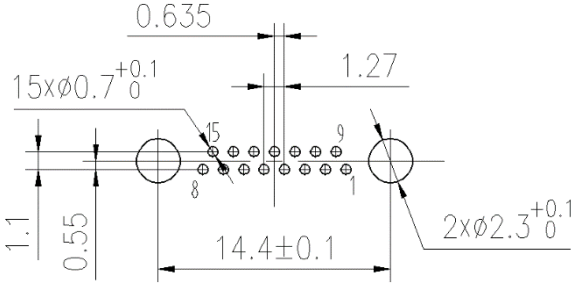
Order Mark	A	B
J30JZ/XPN9TJNAL04	14	10.6
J30JZ/XPN15TJNAL04	17.8	14.4
J30JZ/XPN21TJNAL04	21.6	18.2
J30JZ/XPN25TJNAL04	24.2	20.8
J30JZ/XPN31TJNAL04	28	24.6
J30JZ/XPN37TJNAL04	31.8	28.4
J30JZ/XPN51TJNAL04	30.5	27.1
J30JZ/XPN66TJNAL04	36.9	33.5
J30JZ/XPN74TJNAL04	33.1	29.7
J30JZ/XPN100TJNAL04	40.7	37.3

Hole size of J30JZ series in-line PCB plug: J30JZ/XPENXXXTJNAL04 (grid spacing 1.27 mm × 1.1mm)

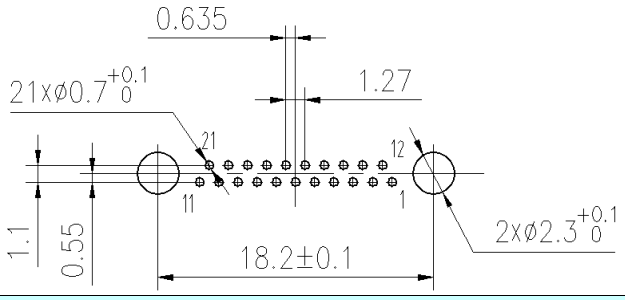
J30JZ/XPN9TJNAL04



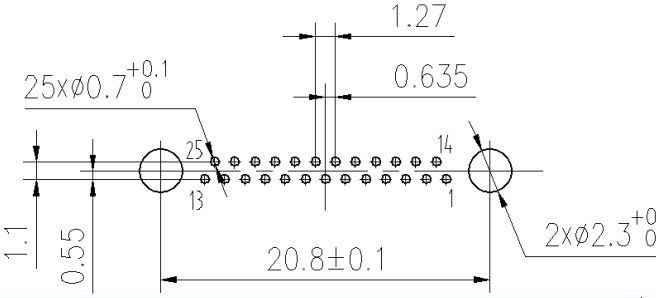
J30JZ/XPN15TJNAL04



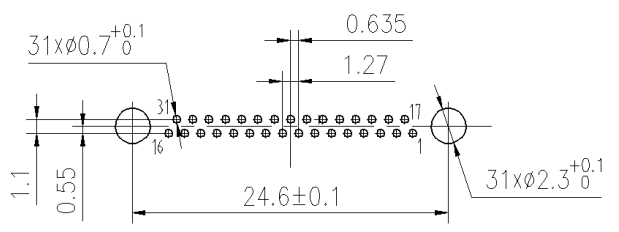
J30JZ/XPN21TJNAL04



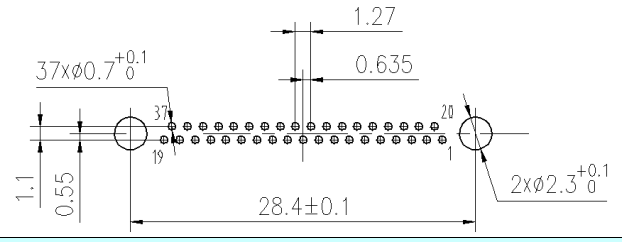
J30JZ/XPN25TJNAL04



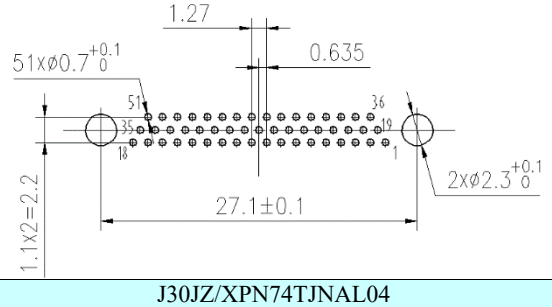
J30JZ/XPN31TJNAL04



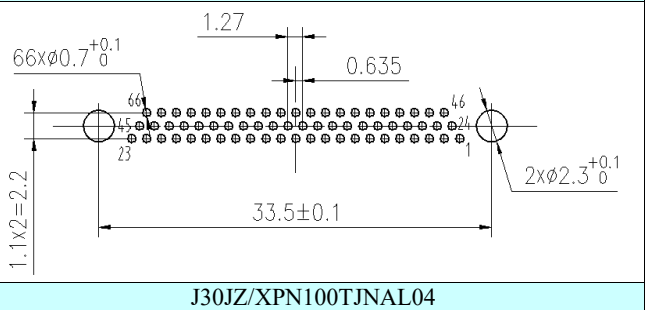
J30JZ/XPN37TJNAL04



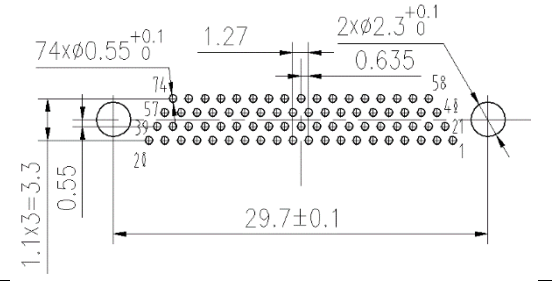
J30JZ/XPN51TJNAL04



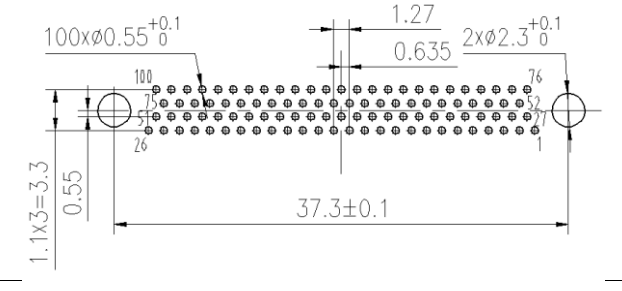
J30JZ/XPN66TJNAL04



J30JZ/XPN74TJNAL04

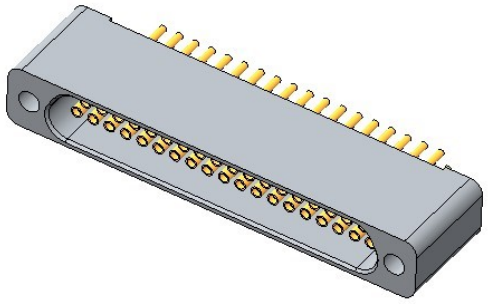


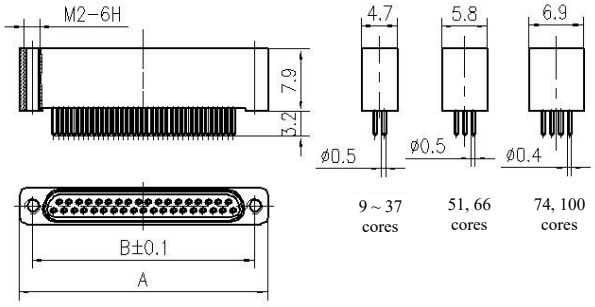
J30JZ/XPN100TJNAL04



In-line socket J30JZ: J30JZPNXXXZKNA000

Vertical installation, suitable for PCB thickness: 2.5mm (max), grid spacing (spacing × row spacing): 1.27 mm × 1.1mm

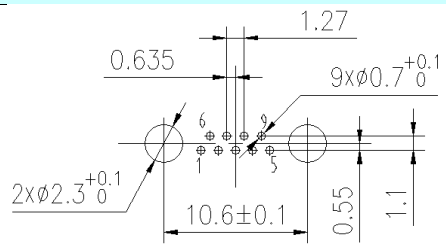




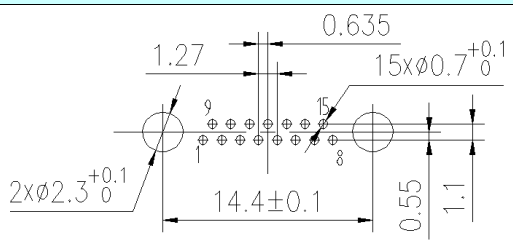
Order Mark	A	B
J30JZPN9ZKNA000	14	10.6
J30JZPN15ZKNA000	17.8	14.4
J30JZPN21ZKNA000	21.6	18.2
J30JZPN25ZKNA000	24.2	20.8
J30JZPN31ZKNA000	28	24.6
J30JZPN37ZKNA000	31.8	28.4
J30JZPN51ZKNA000	30.5	27.1
J30JZPN66ZKNA000	36.9	33.5
J30JZPN74ZKNA000	33.1	29.7
J30JZPN100ZKNA000	40.7	37.3

Hole size of J30JZ series in-line PCB socket: J30JZPNXXXZKNA000 (grid spacing 1.27 mm × 1.1mm)

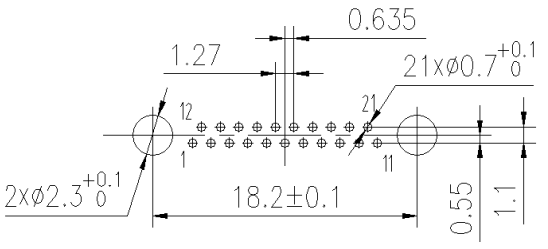
J30JZPN9ZKNA000



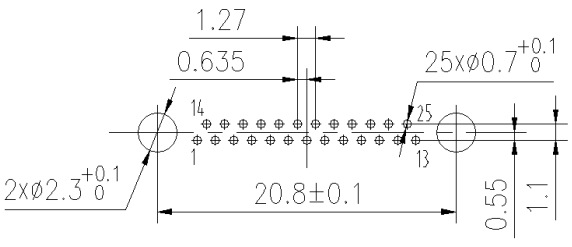
J30JZPN15ZKNA000



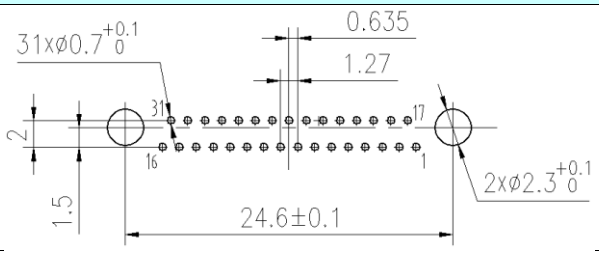
J30JZPN21ZKNA000



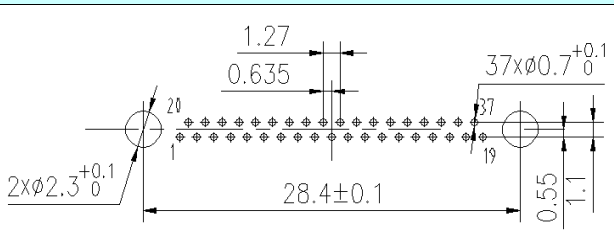
J30JZPN25ZKNA000

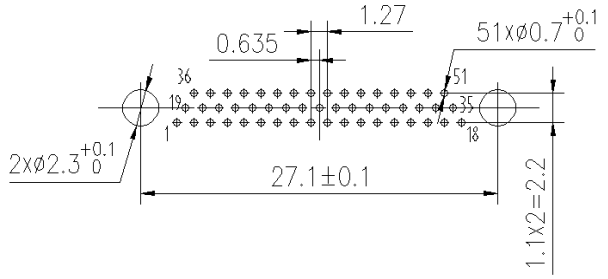
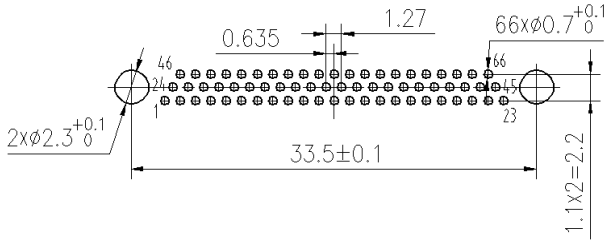
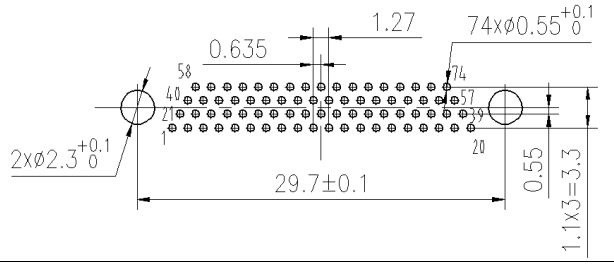
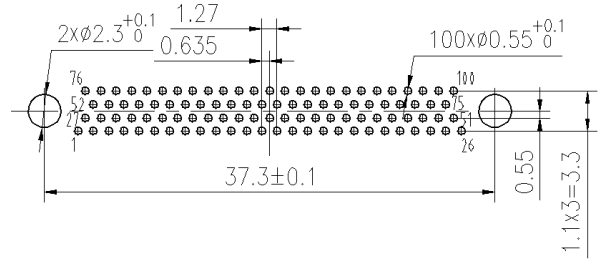


J30JZPN31ZKNA000



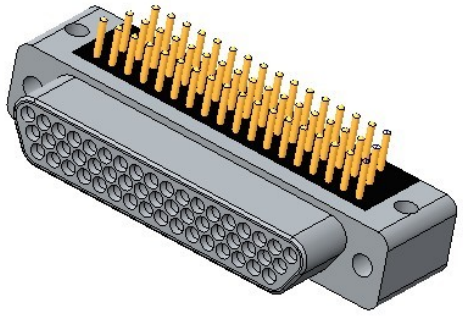
J30JZPN37ZKNA000

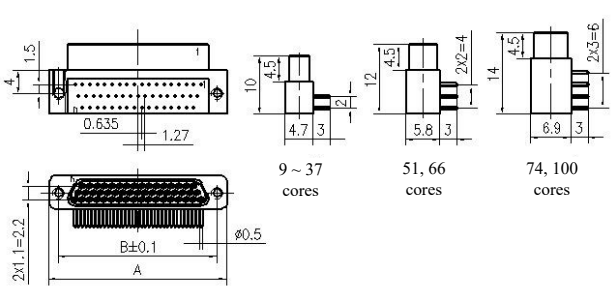


J30JZPN51ZKNA000	J30JZPN66ZKNA000
	
J30JZPN74ZKNA000	**J30JZPN100ZKNA000**
	

Bent plug J30JZ/X: J30JZ/XLNXXXTJWA000

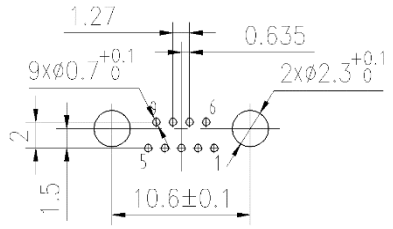
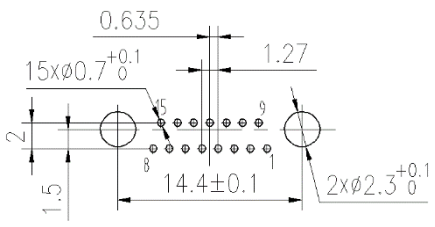
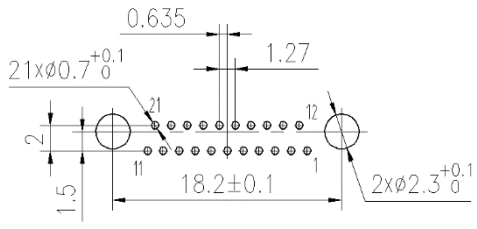
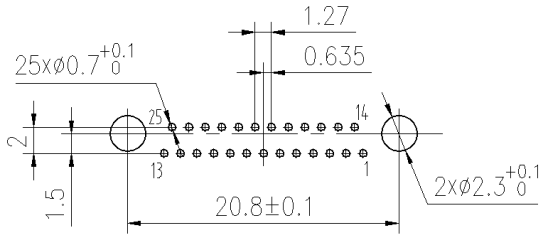
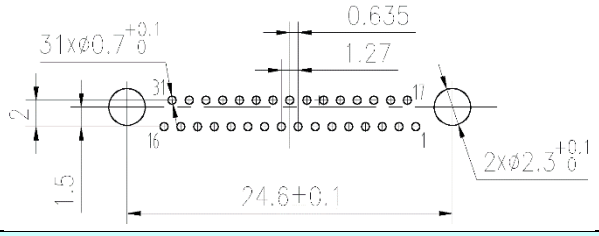
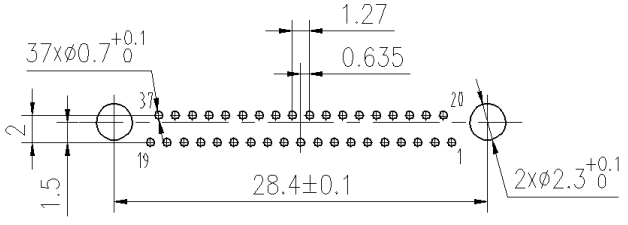
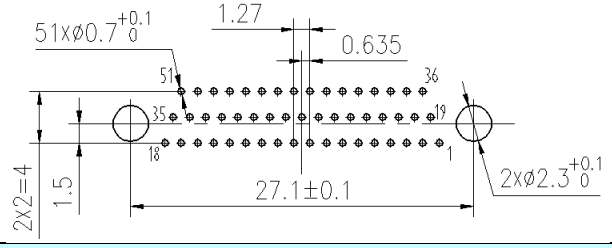
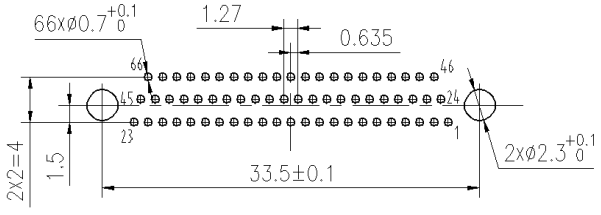
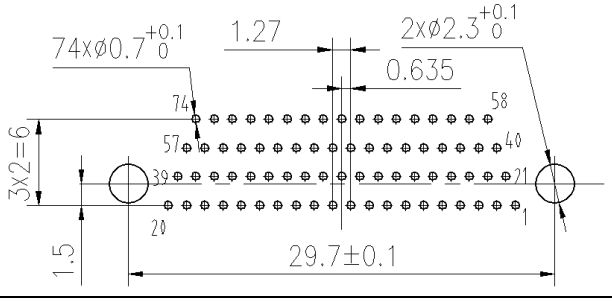
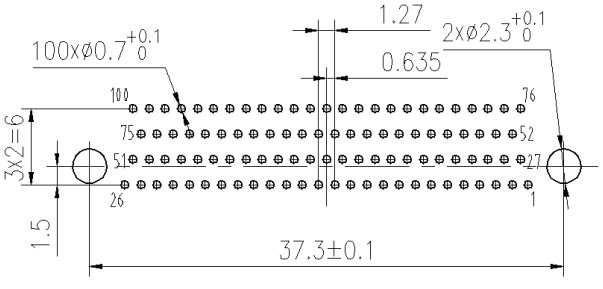
Suitable for PCB thickness: 2mm (max), grid spacing (spacing × row spacing): 1.27 mm × 2mm





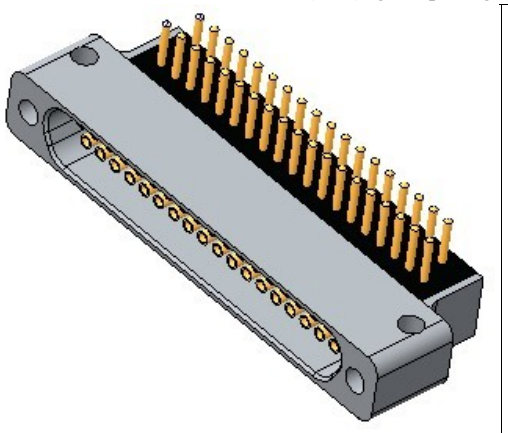
Order Mark	A	B
J30JZ/XLN9TJWA000	14	10.6
J30JZ/XLN15TJWA000	17.8	14.4
J30JZ/XLN21TJWA000	21.6	18.2
J30JZ/XLN25TJWA000	24.2	20.8
J30JZ/XLN31TJWA000	28	24.6
J30JZ/XLN37TJWA000	31.8	28.4
J30JZ/XLN51TJWA000	30.5	27.1
J30JZ/XLN66TJWA000	36.9	33.5
J30JZ/XLN74TJWA000	33.1	29.7
J30JZ/XLN100TJWA000	40.7	37.3

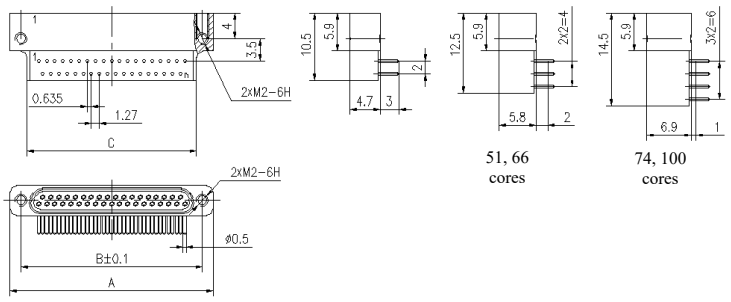
Hole size of J30JZ series bent PCB plug: J30JZ/XLNXXXTJWA000 (grid spacing 1.27 mm × 2mm)

J30JZ/XLN9TJWA000	J30JZ/XLN15TJWA000
	
J30JZ/XLN21TJWA000	J30JZ/XLN25TJWA000
	
J30JZ/XLN31TJWA000	J30JZ/XLN37TJWA000
	
J30JZ/XLN51TJWA000	J30JZ/XLN66TJWA000
	
J30JZ/XLN74TJWA000	J30JZ/XLN100TJWA000
	

Bent socket J30JZ: J30JZLNXXXZKWA000

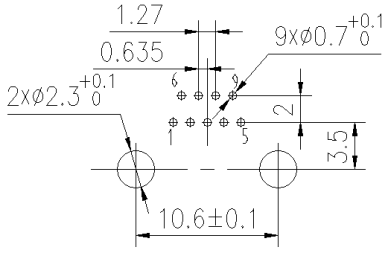
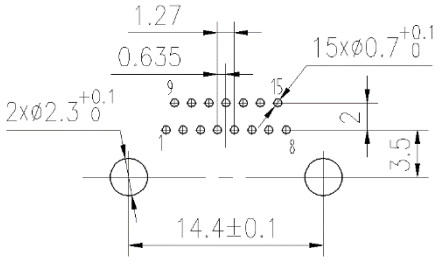
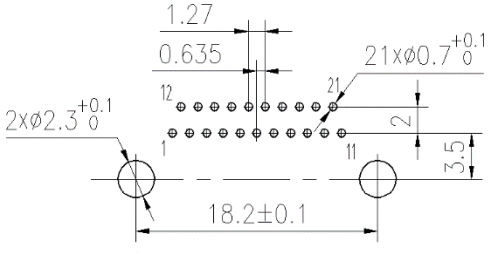
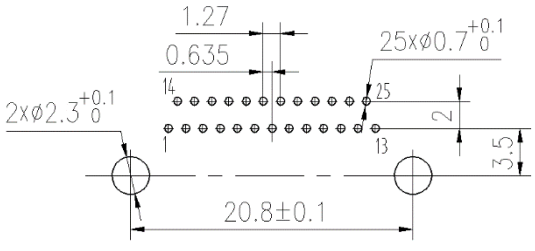
Suitable for PCB thickness: 2mm (max), grid spacing (spacing × row spacing): 1.27 mm × 2mm

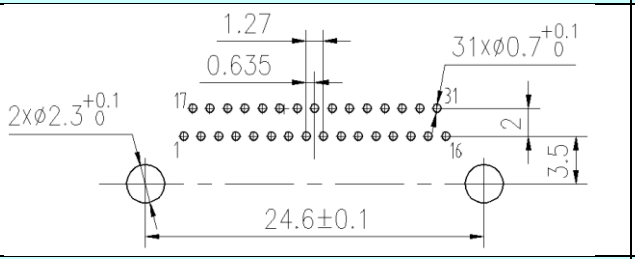
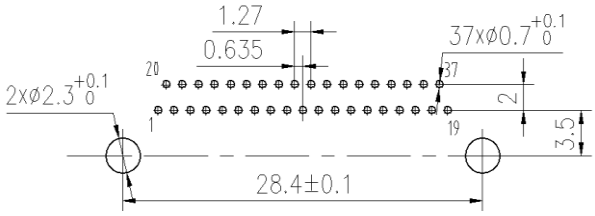
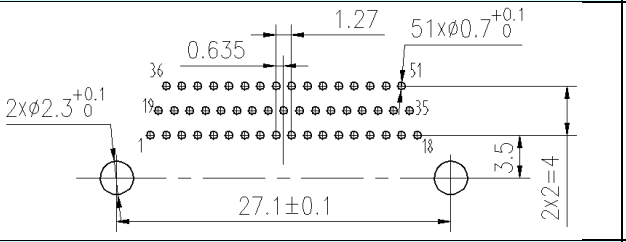
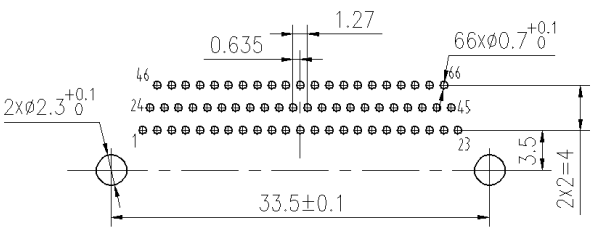
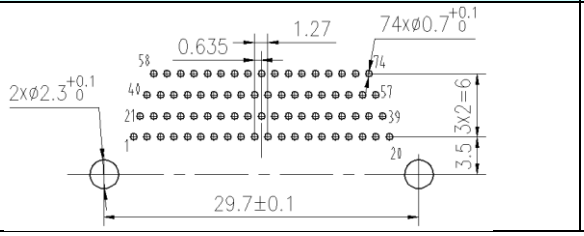
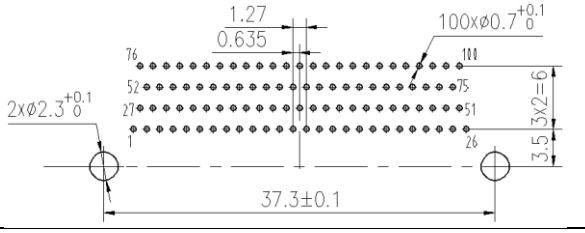




Order Mark	A	B	C
J30JZLN9ZKWA000	14	10.6	8.7
J30JZLN15ZKWA000	17.8	14.4	12.5
J30JZLN21ZKWA000	21.6	18.2	16.3
J30JZLN25ZKWA000	24.2	20.8	18.9
J30JZLN31ZKWA000	28	24.6	22.7
J30JZLN37ZKWA000	31.8	28.4	26.5
J30JZLN51ZKWA000	30.5	27.1	25.2
J30JZLN66ZKWA000	36.9	33.5	31.6
J30JZLN74ZKWA000	33.1	29.7	27.8
J30JZLN100ZKWA000	40.7	37.3	35.4

Hole size of J30JZ series bent PCB socket: J30JZLNXXXZKWA000 (grid spacing 1.27 mm × 2mm)

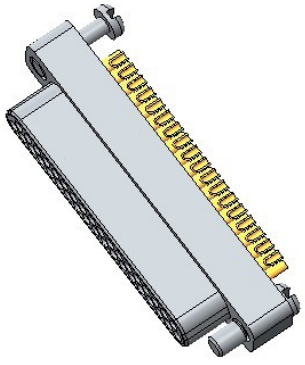
J30JZLN9ZKWA000	J30JZLN15ZKWA000
	
J30JZLN21ZKWA000	J30JZLN25ZKWA000
	

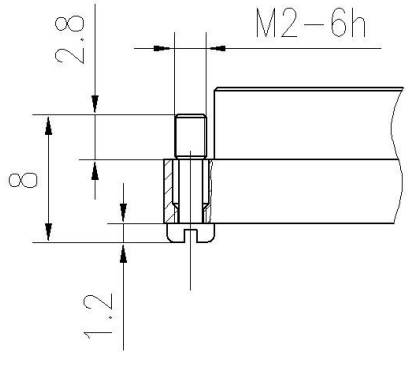
J30JZLN31ZKWA000	J30JZLN37ZKWA000
	
J30JZLN51ZKWA000	**J30JZLN66ZKWA000**
	
J30JZLN74ZKWA000	**J30JZLN100ZKWA000**
	

J30JZ Series Locking Assembly/Free-end Mounting Accessories

J30JZ-L01 Mounting Accessories

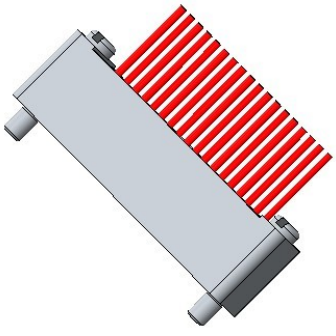
This accessory is only applicable to J30JZ plug end locking.

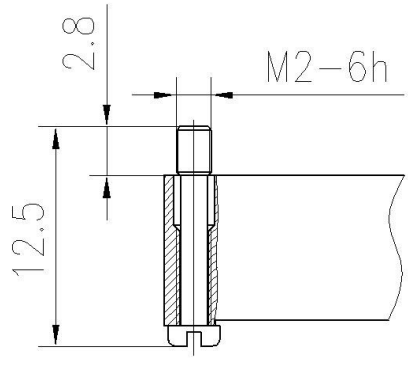




J30JZ-L02 Mounting Accessories

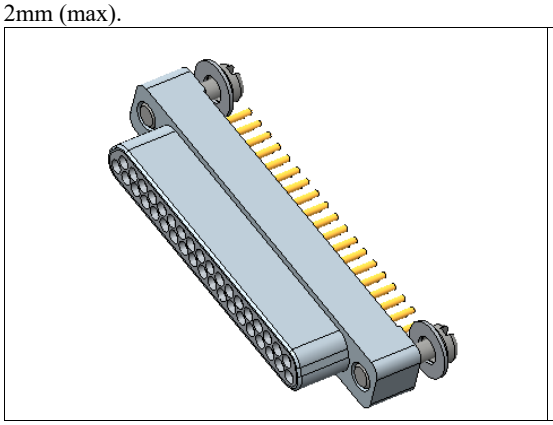
This accessory is only applicable to J30JZPENXXXZKCA000 socket end locking.

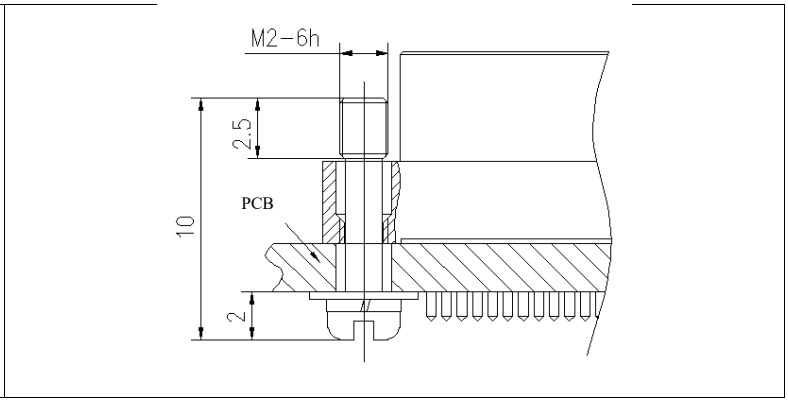




J30JZ-L04 Mounting Accessories

This accessory is only applicable to the locking and installation of J30JZ/XPENXXXTJNAL04 plug end, and the thickness of PCB is 2mm (max).

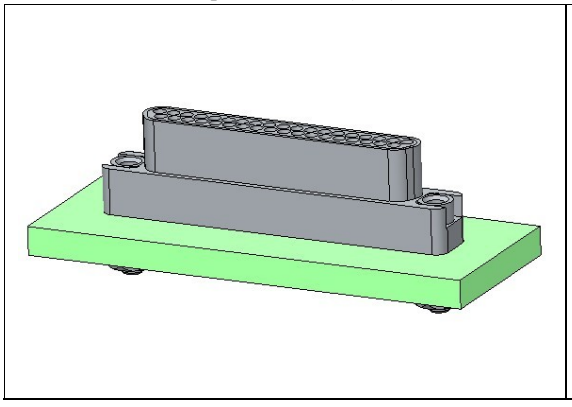


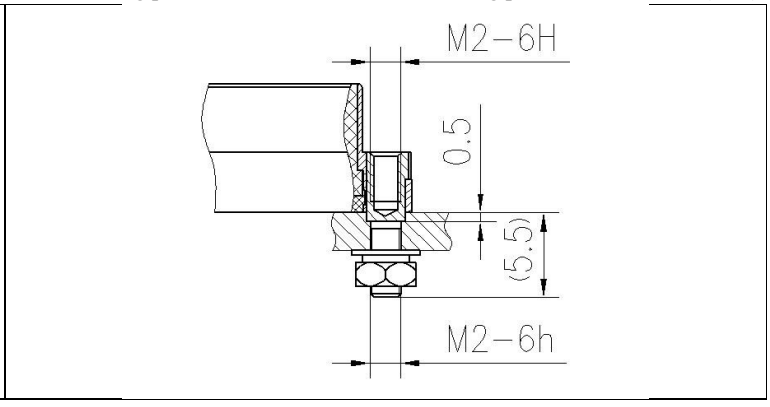


J30JZ Series Locking Assembly/Fixed-end Mounting Accessories

J30JZ-P01 Mounting Accessories

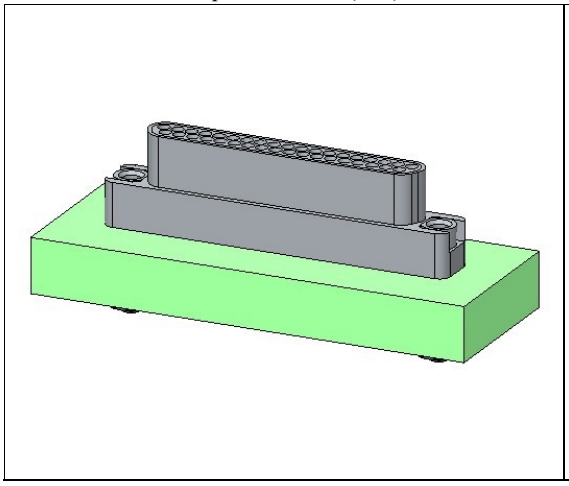
This accessory is only applicable to the fixed installation of J30JZ plug end. When drilling holes on the mounting plate, a Φ2.8mm (min) counterbore with a depth of 0.5mm (min) shall be drilled on the mounting plate. The thickness of the mounting plate used is 2.5mm (max).

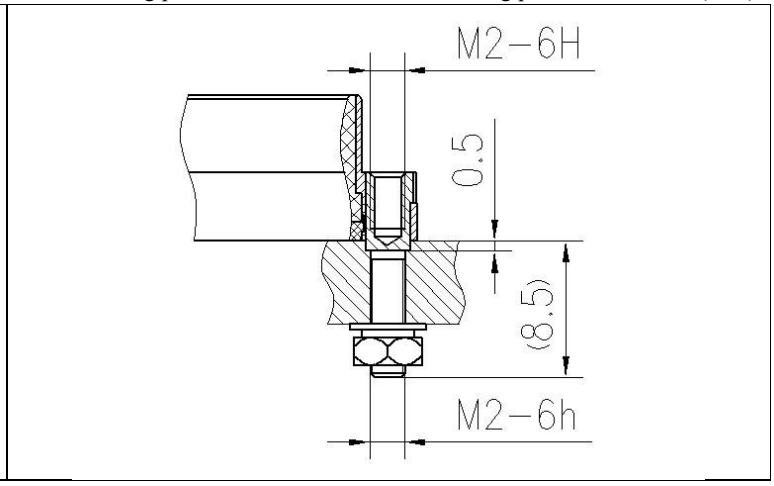




J30JZ-P02 Mounting Accessories

This accessory is only applicable to the fixed installation of J30JZ plug end. When drilling holes on the mounting plate, a Φ2.8mm (min) counterbore with a depth of 0.5mm (min) shall be drilled on the mounting plate. The thickness of the mounting plate used is 5mm (max).

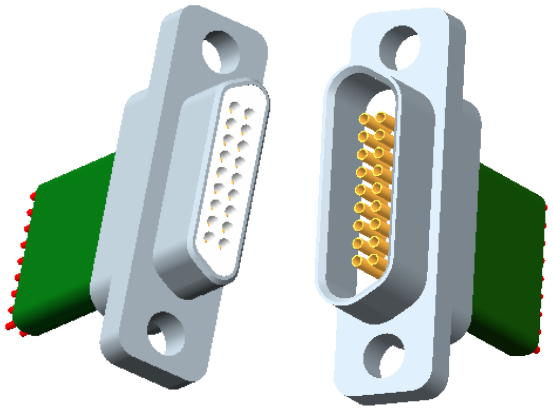




J30J Series High-speed Transmission Micro-rectangular Electrical Connector

Product Overview

- Trapezoidal housing positioning, in-line micro-rectangular electrical connector
- High-speed transmission: 1.65 Gbps
- High-density contact, spacing 1.27mm × 1.27mm
- Number of cores: seven specifications of 12, 18, 24, 30, 36, 55 and 100 cores
- Execute enterprise standard: Q/Ag 1.313 Detailed Specification for HJ30J Series Micro-rectangular Electrical Connectors (conforming to MIL-C-83513, equivalent to MIL-C-83513)



Product Performance

Mechanical Properties

Housing	Aluminum alloy	Mechanical life	500 plugging and unplugging cycles
Plating	Nickel plating	Vibration	Frequency 10 ~ 2000 Hz, Acceleration 196 m/s^2
Insulator	Thermoplastic	Impact	490m/s^2
Contact	Gold-plated copper alloy, crimping type, welding type, PCB type, vertical surface-mount type		

Electrical Performance

Contact resistance and rated current of contacts

Contact Specification	Contact resistance mΩ		Rated current A
	Before lifetime	After lifetime	
Twist pins	≤20	≤30	3

Insulation resistance	under normal conditions ≥ 5000 MΩ; under damp and hot conditions ≥ 1 MΩ
Withstand voltage (under normal conditions)	600Vrms
Characteristic impedance	100± 15 Ω
Transmission characteristics	Transmission rate 1.65 Gbps

Environmental Performance

Temperature range	-55 ℃ ~ +125 ℃	Relative humidity	90% ~ 95% at 40 ℃
Salt spray	48h	Working air pressure	101.33 kPa ~ 4.39 kPa

Model Designation

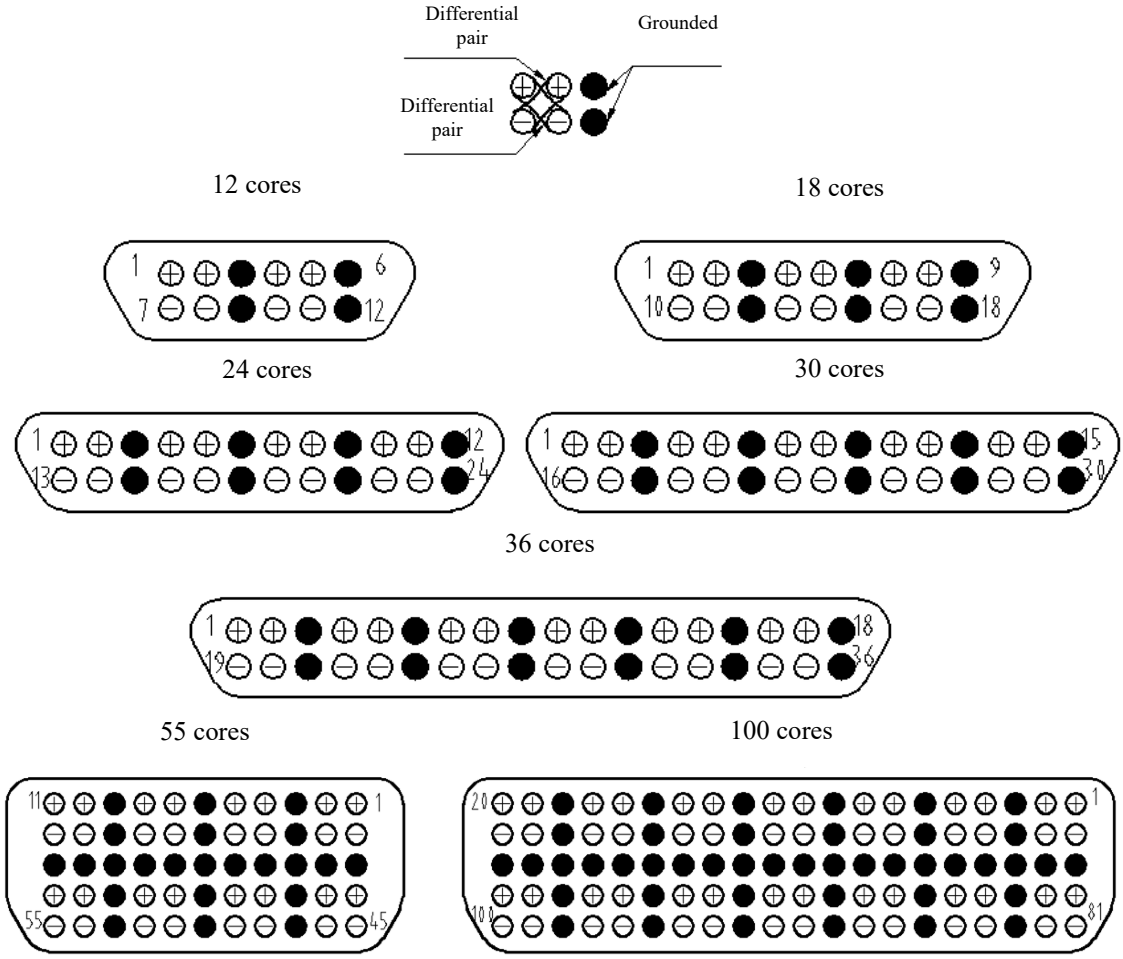
	HJ30J	-12	TJ		L	-A	(1L200C3)
Code of main designation	HJ30J						
Series variant	No identification - Basic type; M - Glue-sealed type						
Number of contacts	12, 18, 24, 30, 36, 55, 100						
Type of Electrical Connector	TJ – plug installed with the pin, ZK – socket installed with the Jack						
Tail type	No identification - Crimping type; S - Welding type; N - In-line PCB type, with the grid spacing of PCB 1.27 × 1.27; NB - Surface-mount type; W - Bent PCB type; the PCB grid spacing is 1.27 × 1.27						
Type of locking and mounting assembly	For L, K, and P type, etc., see the locking assembly of J30J series products of our company for details						
Identification of variants	No identification - No variant; A - Shielding mesh clamp at tail end of housing J - PCB grid spacing 1.27 × 1.27 (surface-mount products only)						
Wire Requirements (Crimping products only)	The wire is marked with (1LXXXCX), and 1 in the bracket represents the color of the conventional harness (see the wiring table of crimping HJ30J series wired products below for details); L represents the connector with wire; XXX represents the length of the wire; C represents Cat5e cable; When the last digit X is 1, 2 and 3, they respectively that the wire is covered with nylon wire sleeve, the wire is covered with anti-wave sleeve, and the wire is covered with anti-wave sleeve and nylon wire sleeve. When there is no identification, it is bare wire.						

Model example: HJ30J-12TJL-A(1L200C3)

The above marks indicate that the number of contacts is 12 cores, the plug is installed with the pin, the end of the contact is crimped, with a L-type locking assembly, and the tail end of the housing is equipped with a shielding mesh clamp; the specification of the wire is Cat5e cable, with the length 200mm and conventional harness color, and the whole wire harness is covered with an anti-wave sleeve and a nylon sleeve.

HJ30J Series Spectrum Arrangement (View of Pin-mounted Insulator Insertion Surface)

Signal definition is recommended. For bent PCB products, PCB wiring needs to be compensated.



Wiring Table of Crimping HJ30J Series Wired Products

The colored wire in the wiring table is the core wire of Cat5e cable, which transmits differential signals. The softer white high-temperature wire in each bundle of wires is the ground wire. The black heat-shrinkable sleeve is used to shrink a pair of differential pairs and the corresponding ground wire into a bundle.

Corresponding Table of 12-core wire color, connector hole position and harness number after thermal shrinkage					
Harness identification	Wire color	Connector hole position No.	Harness identification	Wire color	Connector hole position No.
1#	Green, Cat5e	1	3#	Blue, Cat5e	4
	White, Cat5e	8		White, Cat5e	11
	White, high-temperature wire	9		White, high-temperature wire	12
2#	Orange, Cat5e	7	4#	Red, Cat5e	10
	White, Cat5e	2		White, Cat5e	5
	White, high-temperature wire	3		White, high-temperature wire	6

Corresponding Table of 18-core wire color, connector hole position and harness number after thermal shrinkage					
Harness identification	Wire color	Connector hole position No.	Harness identification	Wire color	Connector hole position No.
1#	Green, Cat5e	1	4#	Red, Cat5e	13
	White, Cat5e	11		White, Cat5e	5
	White, high-temperature wire	12		White, high-temperature wire	6
2#	Orange, Cat5e	10	5#	Green, Cat5e	7
	White, Cat5e	2		White, Cat5e	17
	White, high-temperature wire	3		White, high-temperature wire	18
3#	Blue, Cat5e	4	6#	Orange, Cat5e	16
	White, Cat5e	14		White, Cat5e	8
	White, high-temperature wire	15		White, high-temperature wire	9

Corresponding Table of 24-core wire color, connector hole position and harness number after thermal shrinkage					
Harness identification	Wire color	Connector hole position No.	Harness identification	Wire color	Connector hole position No.
1#	Green, Cat5e	1	5#	Green, Cat5e	7
	White, Cat5e	14		White, Cat5e	20
	White, high-temperature wire	15		White, high-temperature wire	21
2#	Orange, Cat5e	13	6#	Orange, Cat5e	19
	White, Cat5e	2		White, Cat5e	8
	White, high-temperature wire	3		White, high-temperature wire	9
3#	Blue, Cat5e	4	7#	Blue, Cat5e	10
	White, Cat5e	17		White, Cat5e	23
	White, high-temperature wire	18		White, high-temperature wire	24
4#	Red, Cat5e	16	8#	Red, Cat5e	22
	White, Cat5e	5		White, Cat5e	11
	White, high-temperature wire	6		White, high-temperature wire	12

Corresponding Table of 30-core wire color, connector hole position and harness number after thermal shrinkage					
Harness identification	Wire color	Connector hole position No.	Harness identification	Wire color	Connector hole position No.
1#	Green, Cat5e	1	6#	Orange, Cat5e	22
	White, Cat5e	17		White, Cat5e	8
	White, high-temperature wire	18		White, high-temperature wire	9
2#	Orange, Cat5e	16	7#	Blue, Cat5e	10
	White, Cat5e	2		White, Cat5e	26
	White, high-temperature wire	3		White, high-temperature wire	27
3#	Blue, Cat5e	4	8#	Red, Cat5e	25
	White, Cat5e	20		White, Cat5e	11
	White, high-temperature wire	21		White, high-temperature wire	12
4#	Red, Cat5e	19	9#	Green, Cat5e	13
	White, Cat5e	5		White, Cat5e	29
	White, high-temperature wire	6		White, high-temperature wire	30
5#	Green, Cat5e	7	10#	Orange, Cat5e	28
	White, Cat5e	23		White, Cat5e	14
	White, high-temperature wire	24		White, high-temperature wire	15

Corresponding Table of 36-core wire color, connector hole position and harness number after thermal shrinkage					
Harness identification	Wire color	Connector hole position No.	Harness identification	Wire color	Connector hole position No.
1#	Green, Cat5e	1	7#	Blue, Cat5e	10
	White, Cat5e	20		White, Cat5e	29
	White, high-temperature wire	21		White, high-temperature wire	30
2#	Orange, Cat5e	19	8#	Red, Cat5e	28
	White, Cat5e	2		White, Cat5e	11
	White, high-temperature wire	3		White, high-temperature wire	12
3#	Blue, Cat5e	4	9#	Green, Cat5e	13
	White, Cat5e	23		White, Cat5e	32
	White, high-temperature wire	24		White, high-temperature wire	33
4#	Red, Cat5e	22	10#	Orange, Cat5e	31
	White, Cat5e	5		White, Cat5e	14
	White, high-temperature wire	6		White, high-temperature wire	15
5#	Green, Cat5e	7	11#	Blue, Cat5e	16
	White, Cat5e	26		White, Cat5e	35
	White, high-temperature wire	27		White, high-temperature wire	36
6#	Orange, Cat5e	25	12#	Red, Cat5e	34
	White, Cat5e	8		White, Cat5e	17
	White, high-temperature wire	9		White, high-temperature wire	18

Corresponding Table of 55-core wire color, connector hole position and harness number after thermal shrinkage					
Harness identification	Wire color	Connector hole position No.	Harness identification	Wire color	Connector hole position No.
1#	Green, Cat5e	1	9#	Green, Cat5e	34
	White, Cat5e	13		White, Cat5e	46
	White, high-temperature wire	14		White, high-temperature wire	23
2#	Orange, Cat5e	2	10#	Orange, Cat5e	35
	White, Cat5e	12		White, Cat5e	45
	White, high-temperature wire	3		White, high-temperature wire	24
3#	Blue, Cat5e	4	11#	Blue, Cat5e	37
	White, Cat5e	16		White, Cat5e	49
	White, high-temperature wire	17		White, high-temperature wire	36
4#	Red, Cat5e	5	12#	Red, Cat5e	38
	White, Cat5e	15		White, Cat5e	48
	White, high-temperature wire	16		White, high-temperature wire	47
5#	Green, Cat5e	7	13#	Green, Cat5e	40
	White, Cat5e	19		White, Cat5e	52
	White, high-temperature wire	20		White, high-temperature wire	39
6#	Orange, Cat5e	8	14#	Orange, Cat5e	41
	White, Cat5e	18		White, Cat5e	51
	White, high-temperature wire	9		White, high-temperature wire	50
7#	Blue, Cat5e	10	15#	Blue, Cat5e	43
	White, Cat5e	22		White, Cat5e	55
	White, high-temperature wire	33		White, high-temperature wire	42
8#	Red, Cat5e	11	16#	Red, Cat5e	44
	White, Cat5e	21		White, Cat5e	54
	White, high-temperature wire	32		White, high-temperature wire	53

Corresponding Table of 100-core wire color, connector hole position and harness number after thermal shrinkage					
Harness identification	Wire color	Connector hole position No.	Harness identification	Wire color	Connector hole position No.
1#	Green, Cat5e	1	15#	Blue, Cat5e	61
	White, Cat5e	22		White, Cat5e	82
	White, high-temperature wire	23		White, high-temperature wire	41
2#	Orange, Cat5e	2	16#	Red, Cat5e	62
	White, Cat5e	21		White, Cat5e	81
	White, high-temperature wire	3		White, high-temperature wire	42
3#	Blue, Cat5e	4	17#	Green, Cat5e	64
	White, Cat5e	25		White, Cat5e	85
	White, high-temperature wire	26		White, high-temperature wire	63
4#	Red, Cat5e	5	18#	Orange, Cat5e	65
	White, Cat5e	24		White, Cat5e	84
	White, high-temperature wire	6		White, high-temperature wire	83
5#	Green, Cat5e	7	19#	Blue, Cat5e	67
	White, Cat5e	28		White, Cat5e	88
	White, high-temperature wire	29		White, high-temperature wire	66

6#	Orange, Cat5e	8	20#	Red, Cat5e	68
	White, Cat5e	27		White, Cat5e	87
	White, high-temperature wire	9		White, high-temperature wire	86
7#	Blue, Cat5e	10	21#	Green, Cat5e	70
	White, Cat5e	31		White, Cat5e	91
	White, high-temperature wire	32		White, high-temperature wire	69
8#	Red, Cat5e	11	22#	Orange, Cat5e	71
	White, Cat5e	30		White, Cat5e	90
	White, high-temperature wire	12		White, high-temperature wire	89
9#	Green, Cat5e	13	23#	Blue, Cat5e	73
	White, Cat5e	34		White, Cat5e	94
	White, high-temperature wire	35		White, high-temperature wire	72
10#	Orange, Cat5e	14	24#	Red, Cat5e	74
	White, Cat5e	33		White, Cat5e	93
	White, high-temperature wire	15		White, high-temperature wire	92
11#	Blue, Cat5e	16	25#	Green, Cat5e	76
	White, Cat5e	37		White, Cat5e	97
	White, high-temperature wire	38		White, high-temperature wire	75
12#	Red, Cat5e	17	26#	Orange, Cat5e	77
	White, Cat5e	36		White, Cat5e	96
	White, high-temperature wire	18		White, high-temperature wire	95
13#	Green, Cat5e	19	27#	Blue, Cat5e	79
	White, Cat5e	40		White, Cat5e	100
	White, high-temperature wire	60		White, high-temperature wire	78
14#	Orange, Cat5e	20	28#	Red, Cat5e	80
	White, Cat5e	39		White, Cat5e	99
	White, high-temperature wire	59		White, high-temperature wire	98
Other holes are connected with a wire AFR-250-0.15 250V 250V White					

Classification of HJ30J Series Plug and Socket

Type of Plug and Socket	Basic Identification	Structural Features	Remarks
Crimping type	Plug HJ30J-TJ Socket HJ30J-ZK	Metal housing, electroless nickel plating, wire crimping, straight outgoing	The type of locking assembly can be selected according to specific requirements
	Plug HJ30J-TJ-A Socket HJ30J-ZK-A	Equipped with -A accessories, compared with HJ30J-TJ/ZK products	Same as above
Welding type	Plug HJ30J-TJS Socket HJ30J-ZKS	Compared with HJ30J-TJ/ZK product, the contact termination is welding cup type	Same as above
In-line PCB type	Plug HJ30J-TJN Socket HJ30J-ZKN	The contact termination is in-line PCB type; the PCB grid spacing is 1.27 × 1.27	Same as above
Bent PCB type	Plug HJ30J-TJW Socket HJ30J-ZKW	The contact termination is bent PCB type; the PCB grid spacing is 1.27 × 1.27	When the PCB is terminated, ensure that the differential wiring is of equal length
Vertical surface-mount type	Plug HJ30J-TJNB-J Socket HJ30J-ZKNB-J	The contact termination form is vertical surface-mount type	Same as above
Glue-sealed type	Socket HJ30JM-ZK	The air leakage rate index 5.0×10^{-2}Pa·cm^3/s	Whether the sealing gasket is conductive or not can be selected according to requirements

Instructions for Product Selection

1. Order instructions for product locking assemblies and accessories

When HJ30J product is selected, the locking assembly shall be selected according to the use requirements. When selecting the locking assembly, it shall be ensured that the locking assemblies of the selected plug and socket are matched with each other, otherwise it cannot be used normally. See the introduction of locking assemblies of J30J series products of our company for the installation of locking assemblies and their mutual use.

2. Order model description of wired products

For wired HJ30J series crimping products, the wires for transmitting differential signals are the core wires of 26 # aviation Cat5e cables, and the ground wires are AFR-250-0.15 high-temperature wires. The length of the wires is the length extending out of the end face of the housing, and the unit is mm. The outside of the wires can be bare wires, or protected by nylon sleeves and anti-wave sleeves.

If the user has other requirements for wiring, it is necessary to communicate with our technicians to confirm the wire, and our technicians will provide a new order model.

Operation Precautions

The specific operation process of the product: install the connector on the panel with the mounting screws, and then insert the plug and socket in place and screw the two locking screws into the corresponding locking screw holes to complete the connection.

For PCB products, the leads of the products shall be protected during use to avoid collision and deformation; the welding temperature shall be controlled within 280 ℃ and the welding time shall be within 3s.

The product is strictly prohibited to contact with acid, alkali and other polar solvents during transportation, storage and use.

When the product is not connected for a long time, it is necessary to cover the dust cover.

Instructions for Ordering Double-ended Cable Assembly

HJ30J series double-ended cable assembly is composed of two HJ30J products with the same core number. The same hole positions of the products at both ends of the cable assembly are butted one by one. The cable can be covered with anti-wave sleeve and nylon silk sleeve. The type of the products at both ends of the cable, the locking assembly and the length of the cable, and whether the cable is covered with anti-wave sleeve or nylon sleeve can be selected. Withstand voltage of the cable assembly AC 600Vrms, insulation resistance ≥ 5000MΩ. See the diagram below:

HJ30J Double-ended Cable Assembly:

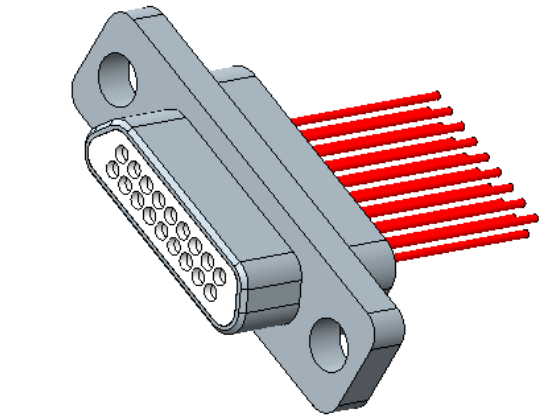
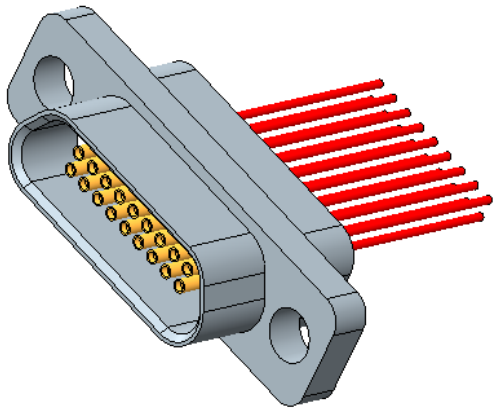
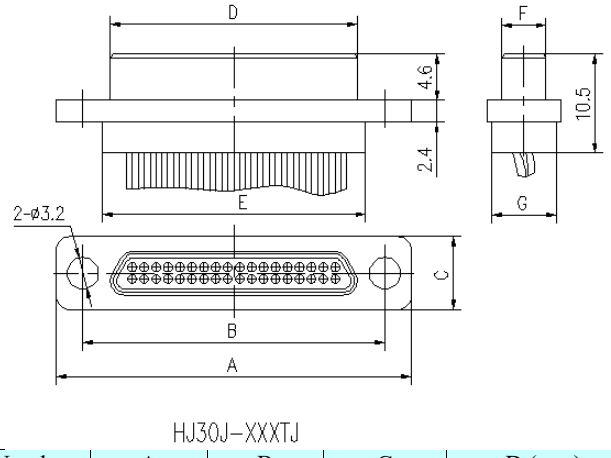
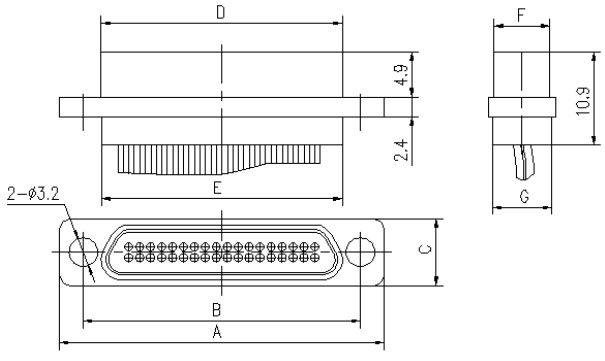
HJ30J-A Double-ended Cable Assembly:

Model Designation

	HJ30J	-12	TJ	L	-A	/	HJ30J	-12	TJ	L	-A	(Wire)
Code of main designation	HJ30J											
Number of contacts	12, 18, 24, 30, 36, 55, 100											
Contact type	TJ – plug installed with the pin, ZK – socket installed with the Jack											
Locking assembly type	See HJ30J model designation for details											
Identification of variants	No identification - Ordinary J30J crimping products; A - Shielding mesh clamp at tail end of housing											
Code of main designation	Same as above											
Number of contacts	Same as above, and the number of cores at both ends shall be consistent											
Contact type	Same as above											
Locking assembly type	See HJ30J model designation for details											
Identification of variants	Same as above											
Detailed description of wires	See HJ30J model designation for details											

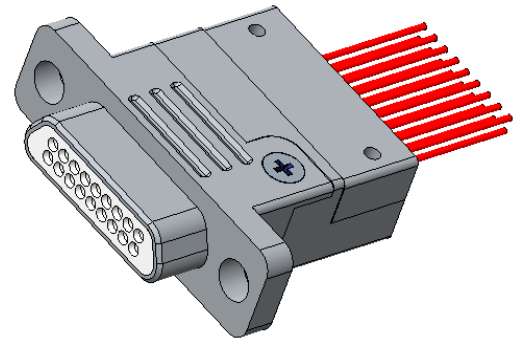
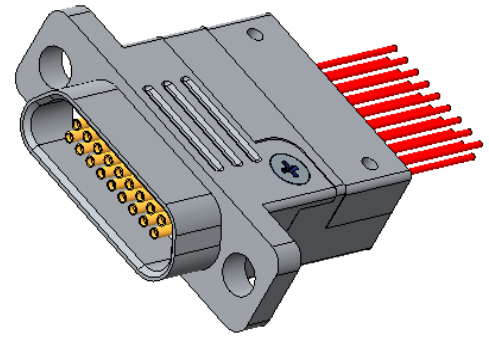
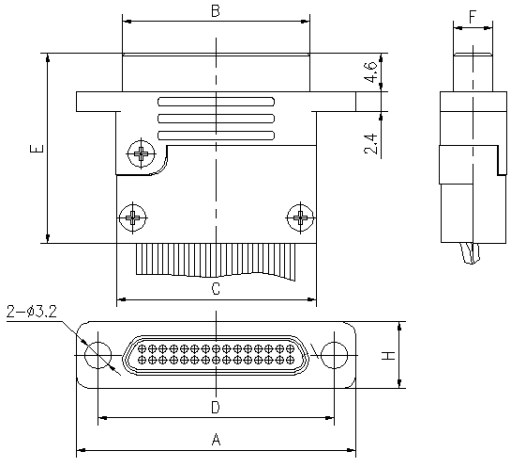
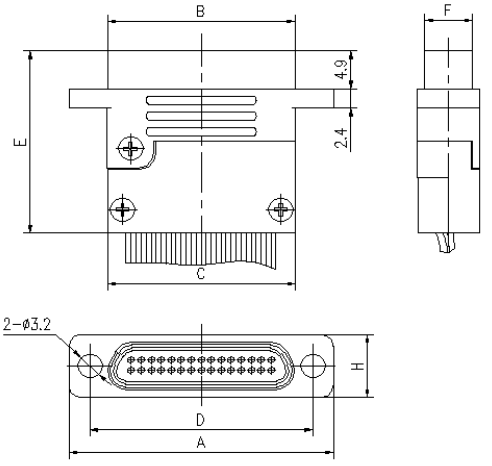
Overall and Installation Dimensions

HJ30J crimping wire type HJ30J-TJ/ZK

Plug: HJ30J-12, 18, 24, 30, 36, 55, 100TJ	Socket: HJ30J-12, 18, 24, 30, 36, 55, 100ZK
	
 HJ30J-XXXTJ	 HJ30J-XXXZK

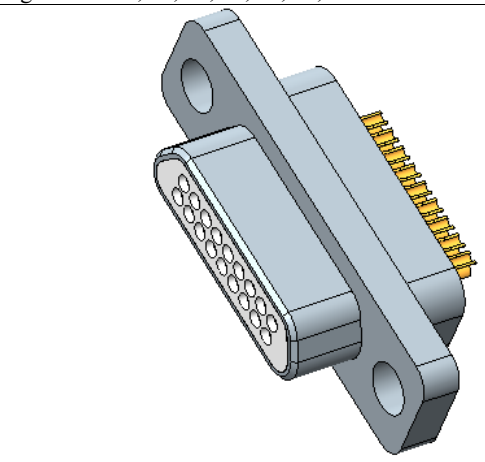
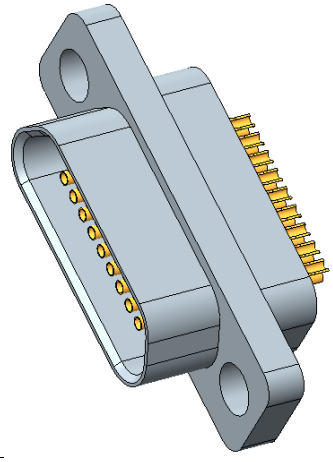
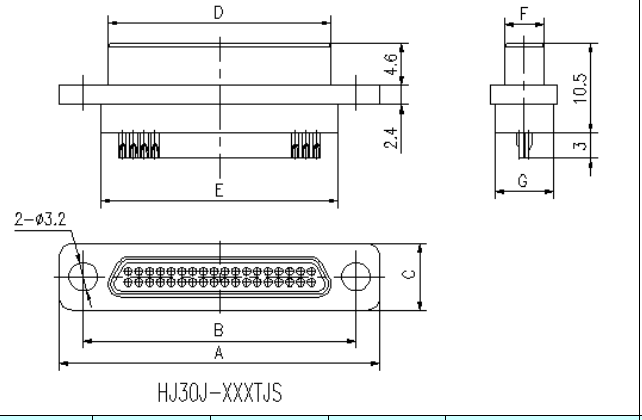
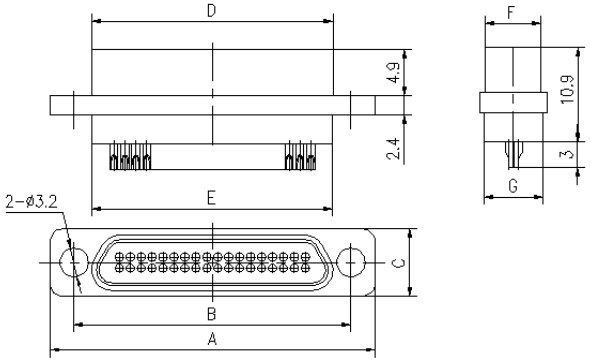
Number of cores	A (mm)	B (mm)	C (mm)	D (mm) Plug	D (mm) Socket	E (mm)	F (mm) Plug	F (mm) Socket	G (mm)
12	23.5	18.16	7.6	12.3	13.7	13.8	4.7	6.1	6.8
18	27.4	21.97		16	17.4	17.6			
24	29.8	24.51		18.6	20	20.2			
30	33.6	28.32		22.4	23.8	24			
36	37.4	32.13		26.3	27.7	27.8			
55	33.1	27.4	11.8	17.4	18.8	20.6	8.4	10.1	10.5
100	44.5	38.8		28.63	30.23	32.03		10	

HJ30J Extended HJ30J-TJ/ZK-A (with tail cover for shielding)

Plug: HJ30J-12, 18, 24, 30, 36TJ-A	Socket: HJ30J-12, 18, 24, 30, 36ZK-A
	
 HJ30J-XXXTJ-A	 HJ30J-XXXZK-A

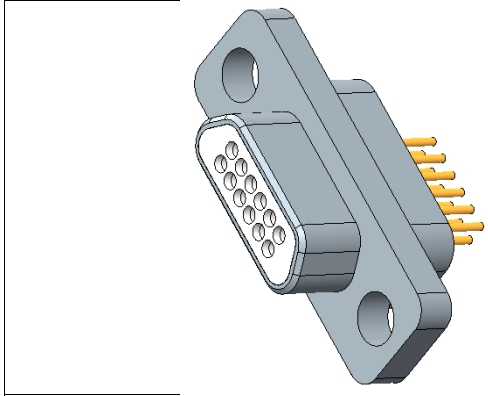
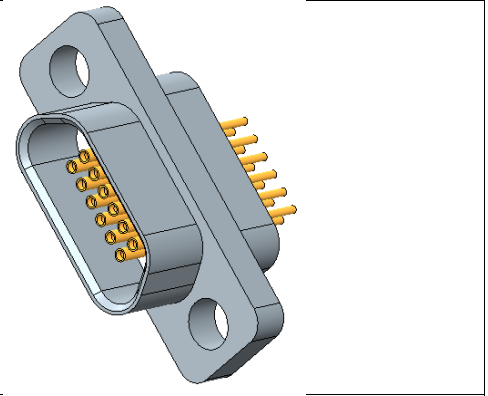
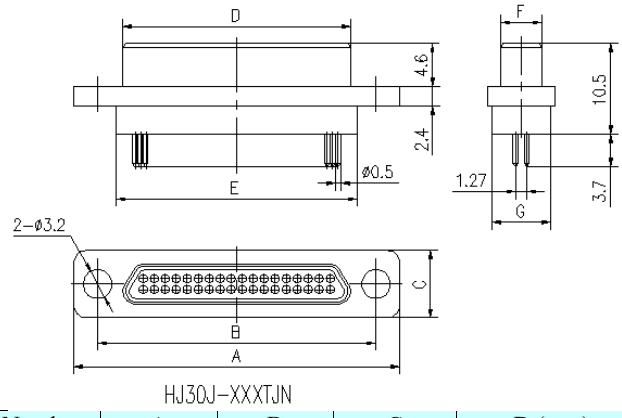
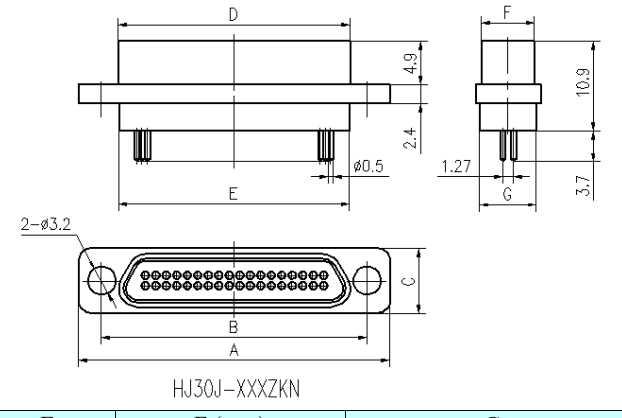
Number of cores	A (mm)	B (mm)		C (mm)	D (mm)	E (mm)		F (mm)		H (mm)
		Plug	Socket			Plug	Socket	Plug	Socket	
12	23.5	12.3	13.7	13.8	18.16	22.6	22.9	4.7	6.1	8
18	27.4	16	17.4	17.6	21.97		23			
24	29.8	18.6	20	20.2	24.51					
30	33.6	22.4	23.8	24	28.32					
36	37.4	26.3	27.7	28	32.13					

HJ30J Basic Welding HJ30J-TJS/ZKS

Plug: HJ30J-12, 18, 24, 30, 36, 55, 100TJS	Socket: HJ30J-12, 18, 24, 30, 36, 55, 100ZKS
	
 HJ30J-XXXTJS	 HJ30J-XXXZKS

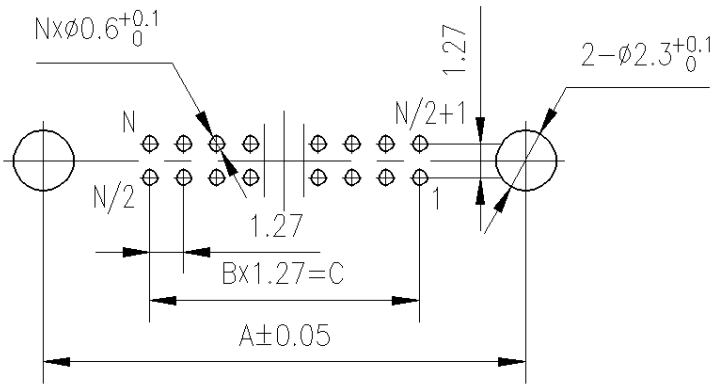
Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
12	23.5	18.16	7.6	12.3	13.7	13.8	4.7	6.1	6.8
18	27.4	21.97		16	17.4	17.6			
24	29.8	24.51		18.6	20	20.2			
30	33.6	28.32		22.4	23.8	24			
36	37.4	32.13		26.3	27.7	27.8			
55	33.1	27.4	11.8	17.4	18.8	20.6	8.4	10.1	10.5
100	44.5	38.8		28.63	30.23	32.03		10	

HJ30J in-line PCB HJ30J-TJN/ZKN (grid spacing 1.27 × 1.27)

Plug: HJ30J-12, 18, 24, 30, 36, 55, 100TJN	Socket: HJ30J-12, 18, 24, 30, 36, 55, 100ZKN
	
	

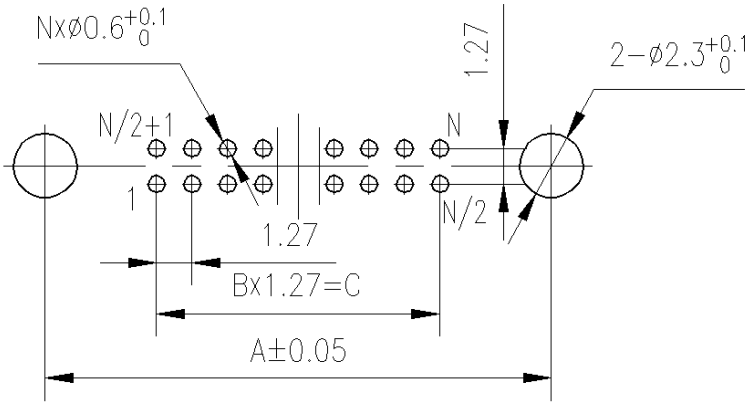
Number of cores	A (mm)	B (mm)	C (mm)	D (mm) Plug	D (mm) Socket	E (mm)	F (mm) Plug	F (mm) Socket	G (mm)
12	23.5	18.16	7.6	12.3	13.7	13.8	4.7	6.1	6.8
18	27.4	21.97		16	17.4	17.6			
24	29.8	24.51		18.6	20	20.2			
30	33.6	28.32		22.4	23.8	24			
36	37.4	32.13		26.3	27.7	27.8			
55	33.1	27.4	11.8	17.4	18.8	20.6	8.4	10.1	10.5
100	44.5	38.8		28.63	30.23	32.03		10	

Hole size of HJ30J series in-line PCB plug: HJ30J-XXXTJN (grid spacing 1.27 × 1.27)



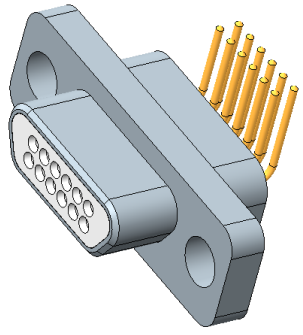
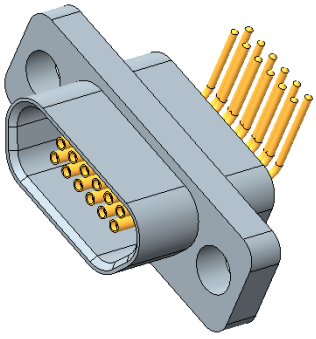
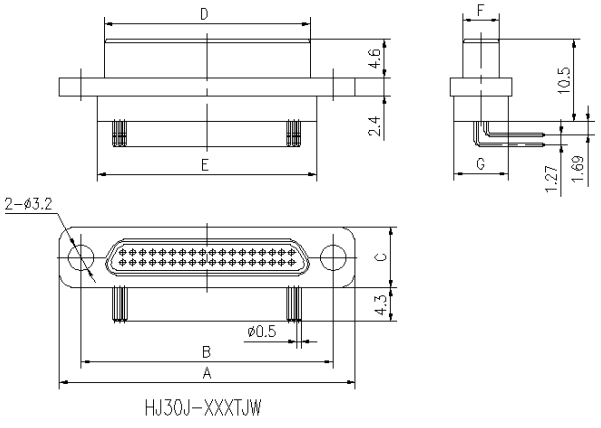
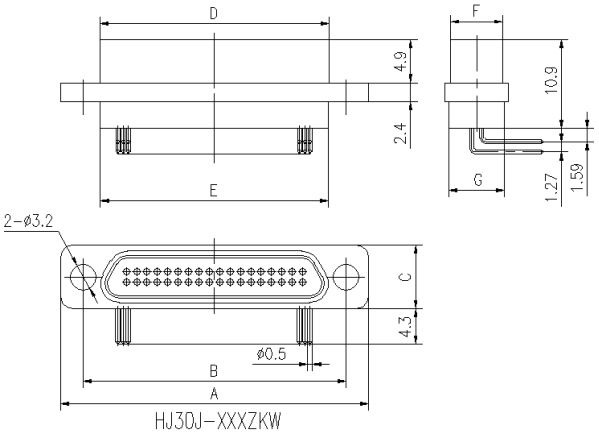
Number of contacts (N)	A	B	C	N
12	18.2	5	6.35	12
18	21.97	8	10.16	18
24	24.51	11	13.97	24
30	28.32	14	17.18	30
36	32.13	17	21.59	36
55	27.4	10	12.7	50
100	38.8	20	25.4	100

Hole size of HJ30J series in-line PCB socket: HJ30J-XXXZKN (grid spacing 1.27 × 1.27)



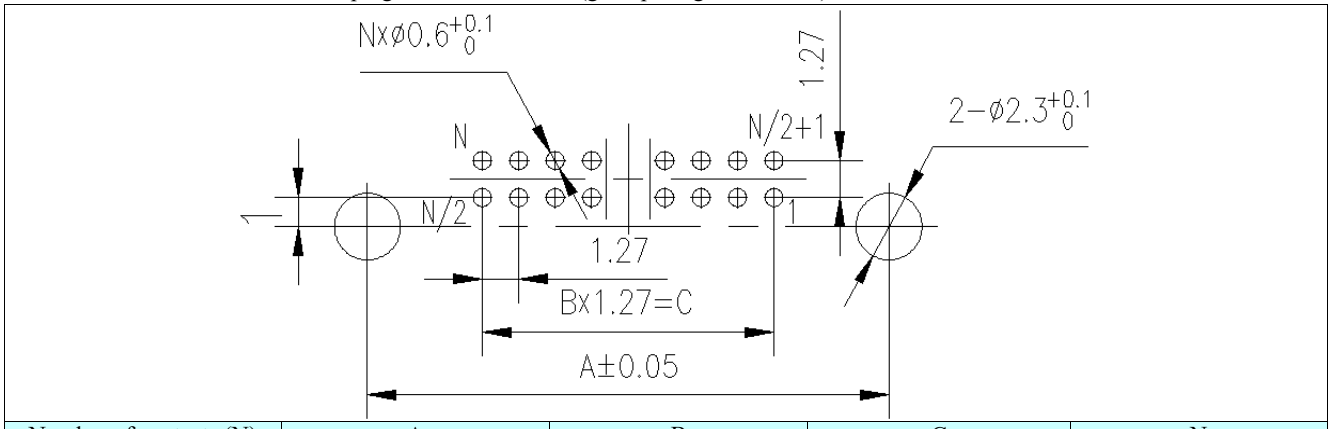
Number of contacts (N)	A	B	C	N
12	18.2	5	6.35	12
18	21.97	8	10.16	18
24	24.51	11	13.97	24
30	28.32	14	17.18	30
36	32.13	17	21.59	36
55	27.4	10	12.7	50
100	38.8	20	25.4	100

HJ30J bent PCB HJ30J-TJW/ZKW (grid spacing 1.27 × 1.27)

Plug: HJ30J-12, 18, 24, 30, 36, 55, 100TJW	Socket: HJ30J-12, 18, 24, 30, 36, 55, 100ZKW
	
	

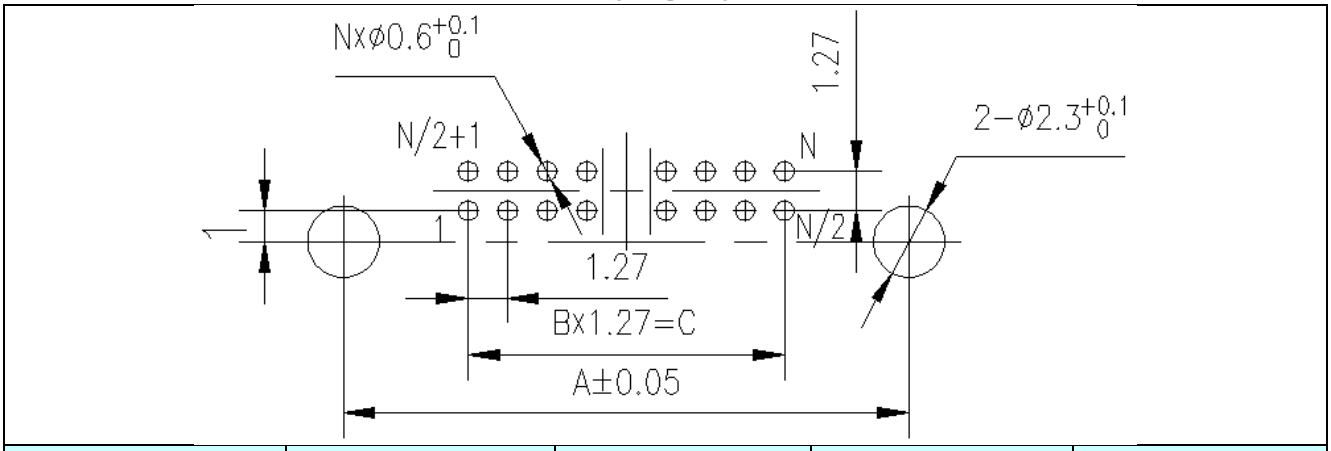
Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
12	23.5	18.16	7.6	12.3	13.7	13.8	4.7	6.1	6.8
18	27.4	21.97		16	17.4	17.6			
24	29.8	24.51		18.6	20	20.2			
30	33.6	28.32		22.4	23.8	24			
36	37.4	32.13		26.3	27.7	27.8			
55	33.1	27.4	11.8	17.4	18.8	20.6	8.4	10.1	10.5
100	44.5	38.8		28.63	30.23	32.03		10	

Hole size of HJ30J series bent PCB plug: HJ30J-XXXTJW (grid spacing 1.27 × 1.27)



Number of contacts (N)	A	B	C	N
12	18.2	5	6.35	12
18	21.97	8	10.16	18
24	24.51	11	13.97	24
30	28.32	14	17.18	30
36	32.13	17	21.59	36
55	27.4	10	12.7	50
100	38.8	20	25.4	100

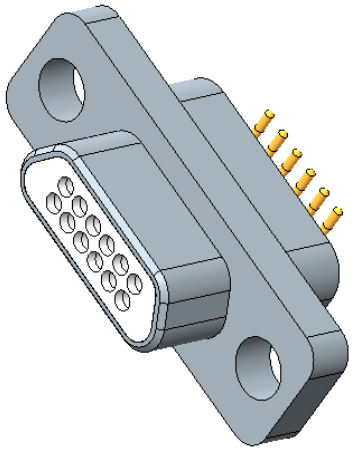
Hole size of HJ30J series bent PCB socket: HJ30J-XXXZKW (grid spacing 1.27 × 1.27)

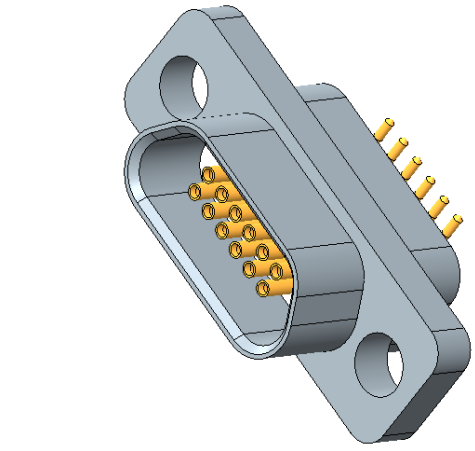


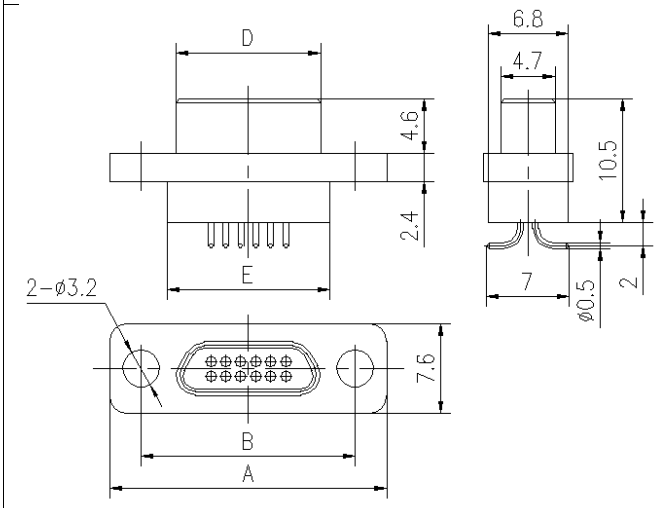
Number of contacts (N)	A	B	C	N
12	18.2	5	6.35	12
18	21.97	8	10.16	18
24	24.51	11	13.97	24
30	28.32	14	17.18	30
36	32.13	17	21.59	36
55	27.4	10	12.7	50
100	38.8	20	25.4	100

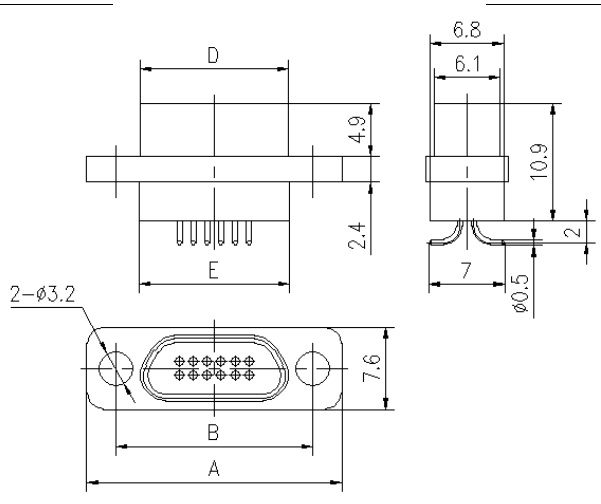
HJ30J Vertical surface-mount HJ30J-TJNB/ZKNB-J

Plug: HJ30J-12, 18, 24, 30, 36TJNB-J	Socket: HJ30J-12, 18, 24, 30, 36ZKNB-J



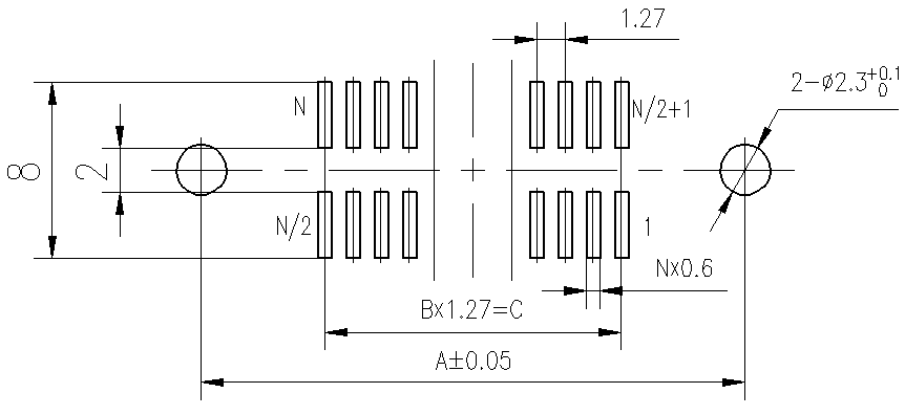






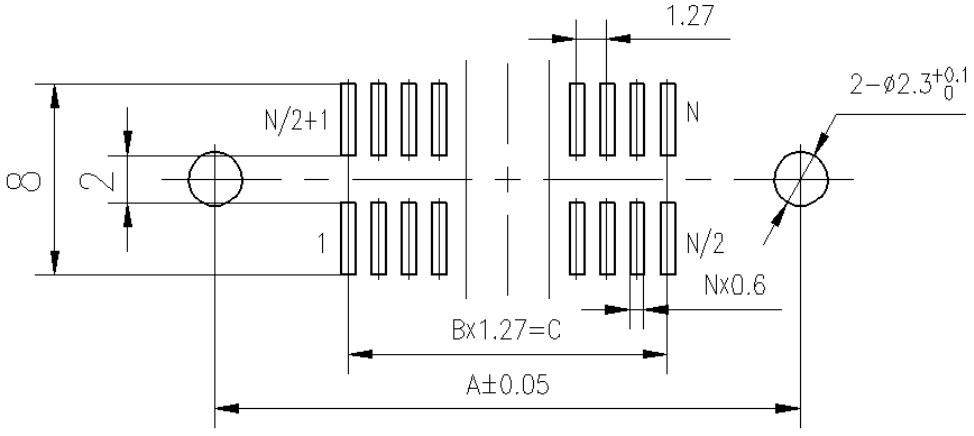
Number of cores	A (mm)	B (mm)	D (mm)		E (mm)
			Plug	Socket	
12	23.5	18.16	12.3	13.7	13.8
18	27.4	21.97	16	17.4	17.6
24	29.8	24.51	18.6	20	20.2
30	33.6	28.32	22.4	23.8	24
36	37.4	32.13	26.3	27.7	28

Hole size of HJ30J series surface-mount plug: HJ30J-XXXTJNB-J



Number of contacts (N)	A	B	C	N
12	18.2	5	6.35	12
18	21.97	8	10.16	18
24	24.51	11	13.97	24
30	28.32	14	17.18	30
36	32.13	17	21.59	36

Hole size of HJ30J series surface-mount socket: HJ30J-XXXZKNB-J

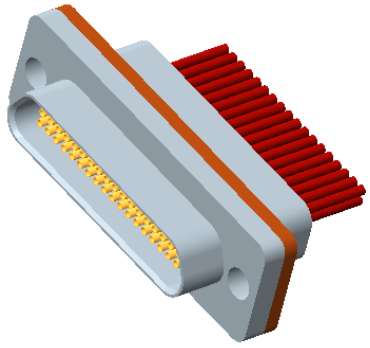


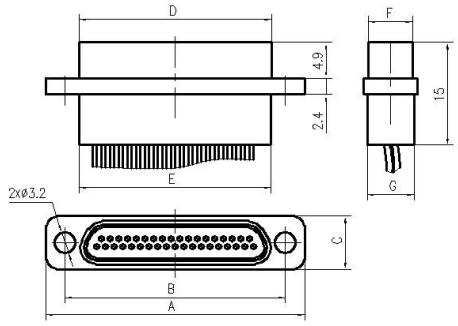
Number of contacts (N)	A	B	C	N
12	18.2	5	6.35	12
18	21.97	8	10.16	18
24	24.51	11	13.97	24
30	28.32	14	17.18	30
36	32.13	17	21.59	36

HJ30JM adhesive seal crimping type HJ30JM-ZK

HJ30JM adhesive sealing product, with an air leakage rate index added, which is 5.0×10^{-2}Pa·cm^3/s. The thickness of the rubber pad installed on the flange of the product is 1.5mm.

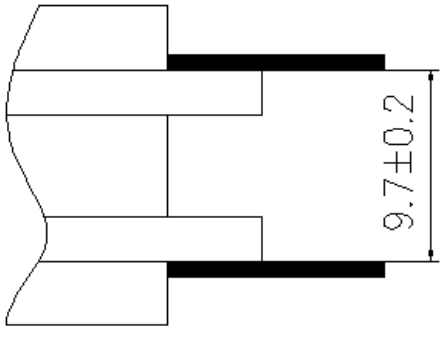
Socket: HJ30JM-12, 18, 24, 30, 36ZK



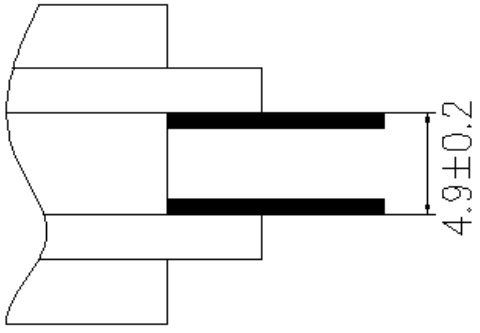


Number of cores	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
12	23.5	18.16	12	13.7	13.8	6.1	6.8
18	27.4	21.97		17.4	17.6		
24	29.8	24.51		20	20.2		
30	33.6	28.32		23.8	24		
36	37.4	32.13		27.7	27.8		
50	33.1	27.4	15.5	18.8	20.6	10.1	10.5
100	44.5	38.8		30.23	32.03	10	

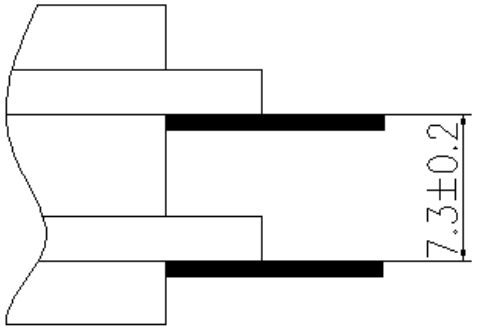
Distance dimension of mounting surface



Plugs and sockets are installed in front of the board



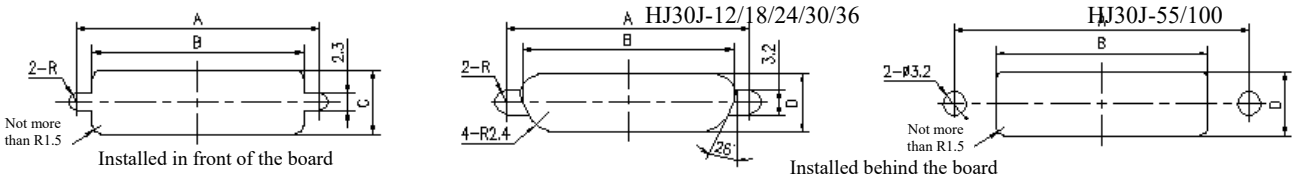
Plugs and sockets are installed behind the board



Plugs are installed in front of the board, and sockets are installed behind the board

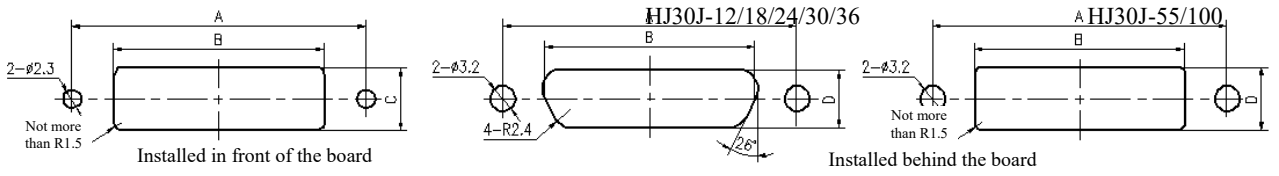
Hole size of mounting plate

HJ30J-TJ/ZK; HJ30J-TJS/ZKS;



Hole size for installation in front of the board				Hole size for installation behind the board			
Number of contact cores	A	B	C	Number of contact cores	A	B	D
12	18.2	14.1	7	12	18.2	14.1	6.3
18	22	17.9		18	22	17.9	
24	24.5	20.5		24	24.5	20.5	
30	28.3	24.3		30	28.3	24.3	
36	32.2	28.1		36	32.2	28.1	
55	27.4	21.3	11	55	27.4	21.3	10
100	38.8	32.7		100	38.8	30.3	

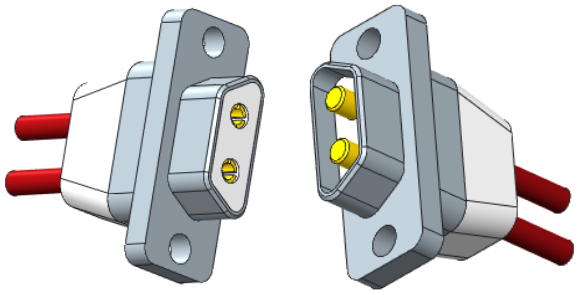
HJ30J-TJ/ZK-A;



Hole size for installation in front of the board				Hole size for installation behind the board			
Number of contact cores	A	B	C	Number of contact cores	A	B	D
12	18.2	14.1	8.2	12	18.2	14.1	6.3
18	22	17.9		18	22	17.9	
24	24.5	20.5		24	24.5	20.5	
30	28.3	24.3		30	28.3	24.3	
36	32.2	28.1		36	32.2	28.1	
55	27.4	22.2	12	55	27.4	22.2	10
100	38.8	33.6		100	38.8	33.6	

J30J Micro-rectangular Electrical Connector with Large and Small Current Mixed

Product Overview



- Trapezoidal housing positioning, in-line micro-rectangular electrical connector;
- The small-current contact adopts flexible pins and rigid Jack structure; the large-current contact adopts rigid pins and elastic jacks
- Small in size, light in weight, easy to use and reliable in performance;
- Number of cores: nineteen specifications of 02P02, 03P03, 04P04, 05P05, 06P06, 07P07, 08P08, 09P09, 10P10, 09P02, 11P04, 12P05, 13P06, 16P03, 21P02, 23P06, 25P02, 27P02 and 39P02-core;
- Execute enterprise standard: Q/Ag 1.296.1-2020 Detailed Specification for J30J Series Micro-rectangular Electrical Connector with Large and Small Current Mixed (conforming to MIL-C-83513, equivalent to MIL-C-83513);

Product Performance

Mechanical Properties

Housing	Aluminum alloy, stainless steel	Sinusoidal vibration	Frequency 10 ~ 2000 Hz, Acceleration 196 m/s^2
Plating	Nickel plating, passivation		
Insulator	Thermoplastic	Random vibration	Power spectral density $0.4G^2/Hz$, Total acceleration RMS 23.1G
Contact	Gold-plated copper alloy, crimping type, welding type, PCB type	Impact	$490m/s^2$
Mechanical life	500 plugging and unplugging cycles		

Electrical Performance

Contact resistance and rated current of contacts

		Large-current contact	Small-current contact
Contact Specification		Rigid pins and elastic jacks	Twist pins
Rated current A		20	3
Contact resistance mΩ	Before lifetime	≤10 ≤20	≤10 ≤20
	After lifetime	≤20	≤20

Magnetic permeability	Not more than 2.0
Insulation resistance	under normal conditions ≥ 5000 MΩ; under damp and hot conditions ≥ 1 MΩ
Withstand voltage	under normal conditions ≥ 600Vrms; under damp and hot conditions ≥ 360Vrms, Under low pressure conditions ≥ 150Vrms

Environmental Performance

Temperature range	-55 ℃ ~ +125 ℃	Relative humidity	90% ~ 95% at 40 ℃
Salt spray	48h	Working air pressure	101.33 kPa ~ 4.39 kPa

Model Designation

Code of main designation	J30J	09P02	J	S	C00	C0	L00	0	-	A3	(Additional Information)
Contact Arrangement	See Table 2										
Small-current contact type	0 - No small-current contact; J - Small-current pin K - Small-current Jack										
Large-current contact type	S - Large-current Jack P - Large-current pin										
Small-current contact type	000 - No small-current contact; For others, see Table 2										
Large-current contact type	See Table 2										
Locking assembly type	000 - No locking assembly Free-end: L00 Fixed end: P00, P01, P02, P03, P04, P05, P06, P07, P08, P09, P10, P11, P12, and P13										
Housing Variant	0 - Standard, nickel-plated aluminum alloy 1 - Stainless steel										
Tail Accessories	No indication - Without tail accessories A3 - Two-piece wire clamp (welded only)										
Additional Information	Other descriptions, such as wire type, color, connection relationship, etc.										

Table 1 Contact Arrangement

Code	Contact Arrangement	Code	Contact Arrangement
02P02	2-core 20A contact	09P02	7-core 3A contact +2-core 20A contact
03P03	3-core 20A contact	11P04	7-core 3A contact +4-core 20A contact
04P04	4-core 20A contact	12P05	7-core 3A contact +5-core 20A contact
05P05	5-core 20A contact	13P06	7-core 3A contact +6-core 20A contact
06P06	6-core 20A contact	16P03	13-core 3A contact +3-core 20A contact
07P07	7-core 20A contact	21P02	19-core 3A contact +2-core 20A contact
08P08	8-core 20A contact	23P06	17-core 3A contact +6-core 20A contact
09P09	9-core 20A contact	25P02	23-core 3A contact +2-core 20A contact
10P10	10-core 20A contact	27P02	25-core 3A contact +2-core 20A contact
		39P02	37-core 3A contact +2-core 20A contact

Table 2 Contact tail form

Contact tail form	Mark code	
	Small-current contact	Large-current contact
Crimping type	C00	C0
Welding type	S00	S0
In-line PCB thickness: 2mm, lead length: 5.7mm	N01	N1
In-line PCB thickness: 3mm, lead length: 6.7mm	N02	N2
In-line PCB thickness: 4mm, lead length: 7.7mm	N03	N3
In-line PCB thickness: 5mm, lead length: 8.7mm	N04	N4
Bent PCB 2mm, height exposed the mounting plate 3mm	W01	W1
Bent PCB 3mm, height exposed the mounting plate 4mm	W02	W2
Bent PCB 4mm, height exposed the mounting plate 5mm	W03	W3
Bent PCB 5mm, height exposed the mounting plate 6mm	W04	W4

Table 3 Wire specification

No.	Classification feature	Classification content	Mark code
1	Wire color	R: Red; W: White; M: Purple; G: Green; A: Grey; U: Blue; Y: Yellow; B: Black; N: Orange; 1: Custom; etc.	R, W, M, G, A, U, Y, B, N, 1 etc.
2	L	Connector with wires	L
3	Wire length	1000: wire length value in mm	1000
4	Wire specification	S (Cross-sectional area of wires adapted to small-current contact $0.1mm^2 \sim 0.15mm^2$; Cross-sectional area of wires adapted to large-current contact $2mm^2$)	S
5	Additional requirements	No indication: no additional requirements 10, 11, 12, etc.: Customized (Additional requirements: there are no additional requirements outside the wire; the wire is covered with nylon sleeve, the wire is covered with anti-wave sleeve, and the end of the wire is covered with wire marker, etc.)	10, 11, 12, etc.

Only AFR-250 with a cross-sectional area of $2mm^2$ can be used as the adapter wire for crimping the high-current contact; AFR-250 with a cross-sectional area of $2mm^2 \sim 3mm^2$ can be used as the adapter wire for welding.

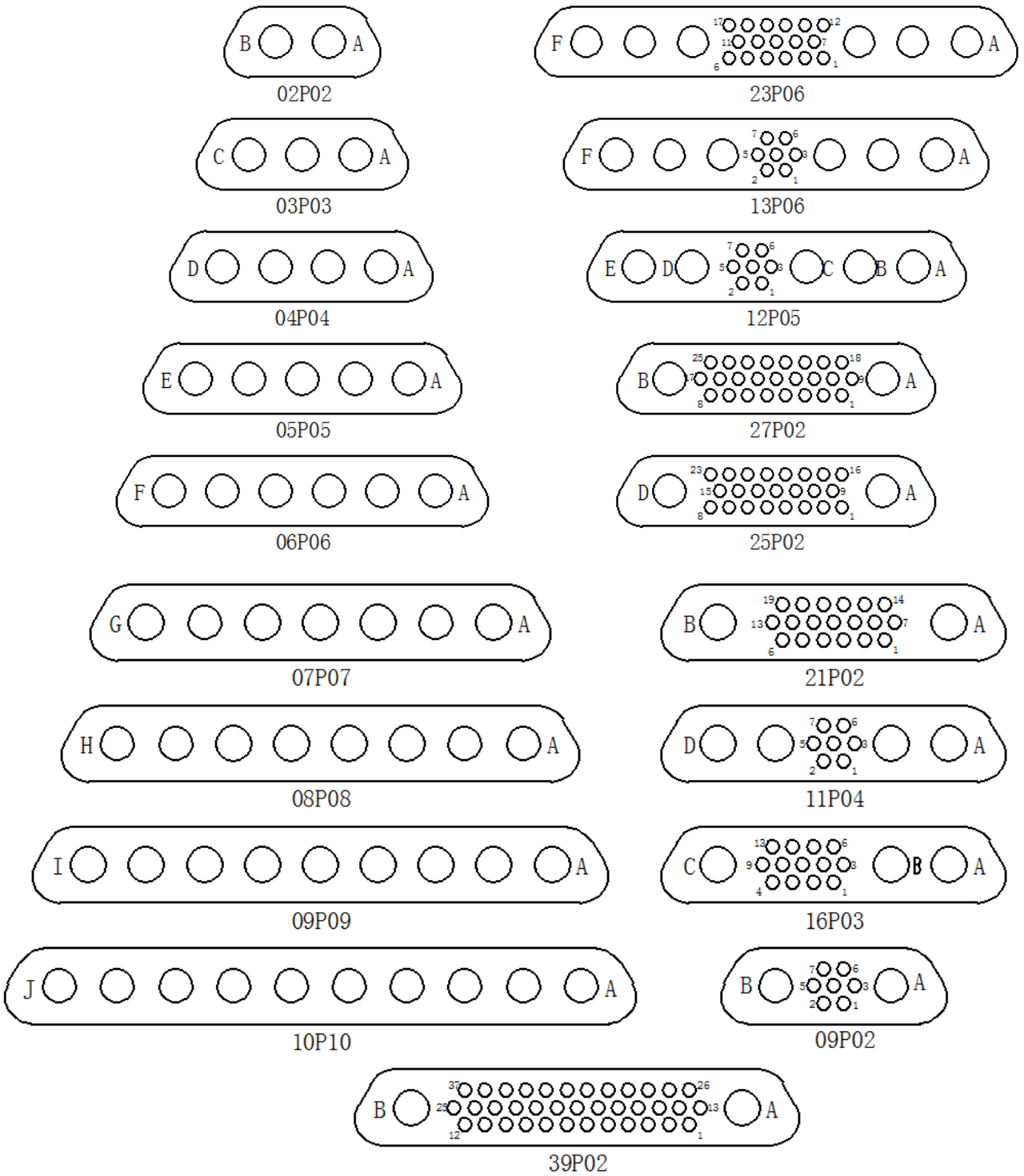
Table 4 Locking assembly type

Code	Locking assembly type	Code	Locking assembly type
L00	Free-end locking assembly	P08	Installed behind the board, with the panel thickness 3.4mm
K00	Free-end locking assembly (hand-screwable)	P09	Installed behind the board, with the panel thickness 2mm
P00	Installed in front of the board, with the panel thickness ≤ 2.5mm	P10	Bent PCB 2mm, installed behind the board
P03	Installed on in-line PCB, with thickness of adapted PCB ≤ 2.5mm	P11	Installed in front of the board, with M3 threaded hole drilled for installation
P04	Bent PCB	P12	Installed in front of the board, with the panel thickness ≤ 5.5mm
P05	Installed behind the board, with the panel thickness 0.6mm	P13	Installed on in-line PCB, with thickness of adapted PCB ≤ 4.5mm
P06	Installed behind the board, with the panel thickness 1.4mm	P111	Installed on in-line PCB, with thickness of adapted PCB ≤ 3.5mm
P07	Installed behind the board, with the panel thickness 2.2mm	P54	Installed on in-line PCB, with thickness of adapted PCB ≤ 5.5mm

Model example: J30J02P020S000C0L000 (WL400S10)

The above marks indicate 2-core 20A contact, no small-current contact, large-current Jack, and large-current crimping type; the locking assembly is free-end L00 type, the housing is standard, each hole is crimped with white AFR-250 wire with sectional area of $2mm^2$ and length of 400 mm, and additional customization requirements are required outside the wire.

J30J Series Spectrum Arrangement (View of Plug Insertion Surface)



Classification of J30J Series Plug and Socket

Type of Plug and Socket	Basic Identification	Structural Features
Crimping type	Plug J30JXXPXXXSXXXC0 Socket J30JXXPXXXPXXXC0	Metal housing, electroless nickel plating, wire crimping, straight outgoing
Welding type	Plug J30JXXPXXXSXXXS0 Socket J30JXXPXXXPXXXS0	The contact termination is welding cup type
In-line PCB type	Plug J30JSN1 Socket J30JKN1	In-line PCB thickness: 2mm, lead length: 5.7mm
	Plug J30JSN2 Socket J30JKN2	In-line PCB thickness: 3mm, lead length: 6.7mm
	Plug J30JSN3 Socket J30JKN3	In-line PCB thickness: 4mm, lead length: 7.7mm
	Plug J30JSN4 Socket J30JKN4	In-line PCB thickness: 5mm, lead length: 8.7mm
Bent PCB type	Plug J30JSW1 Socket J30JKW1	Bent PCB thickness: 2mm, lead length: 5.7mm
	Plug J30JSW2 Socket J30JKW2	Bent PCB thickness: 3mm, lead length: 6.7mm
	Plug J30JSW3 Socket J30JKW3	Bent PCB thickness: 4mm, lead length: 7.7mm
	Plug J30JSW4 Socket J30JKW4	Bent PCB thickness: 5mm, lead length: 8.7mm

Instructions for Product Selection

J30J series micro-rectangular electrical connector with large and small current mixed is the in-line micro-rectangular electrical connector with trapezoidal housing positioning. The small-current contacts are flexible pins and rigid jacks, and the large-current contacts are rigid pins and elastic jacks. The products are available in various forms such as crimping type, welding type and PCB type, which can be used together. Any type of plug and socket with the same number of cores can be used together.

1. When J30J products with large and small-current mixed are selected, the plug assembly, socket assembly, clamp assembly and locking assembly shall be selected at the same time, so that the plug or socket with locking function can be selected. The clamp assembly is not necessary. Type A3 clamp assembly is a two-petal snap-fit clamp assembly, and its overall dimension exceeds the flange width; Type A3 clamp assembly can only be used with the free-end locking assembly; it can be selected as required.

2. When selecting the crimping connector, it is necessary to determine the color and length of the wire, whether the wire harness needs to be shielded, and whether the nylon sleeve is needed. If the user has other special requirements for the wire brand and wiring mode of the product, he should confirm with the company's technicians and confirm the product model before ordering.

3. If most of the holes of the product need to be connected with wires with thicker outer diameter, it should be considered whether the glue-filling cavity and clamp assembly of the product have enough accommodation space, and the conclusion can only be drawn after trial assembly.

4. For the treatment of empty points in the product, if there is no technical agreement or no consensus has been reached before, the empty points shall be blocked with jacks or pins that are not crimped with wires.

Operation Precautions

The specific operation process of the product: install the connector on the panel with the mounting screws, and then insert the plug and socket in place and screw the two locking screws into the corresponding locking screw holes to complete the connection.

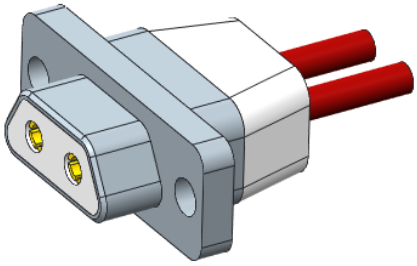
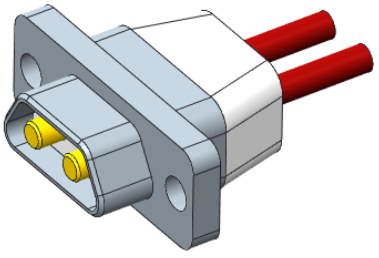
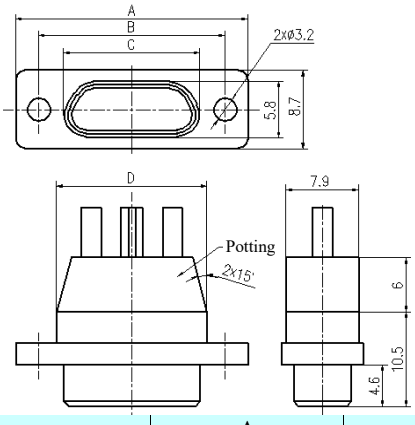
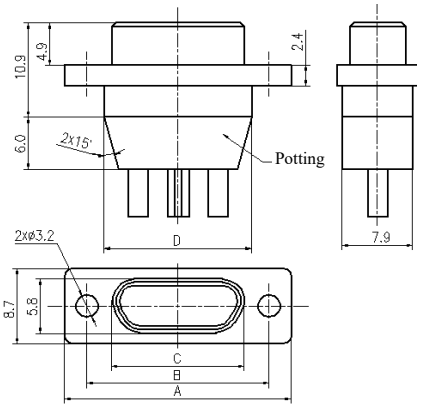
The product is strictly prohibited to contact with acid, alkali and other polar solvents during transportation, storage and use.

When the product is not connected for a long time, it is necessary to cover the dust cover.

The welding temperature shall be no more than 280 ℃ and the welding time shall be no more than 3s when wire welding is performed on the welded product.

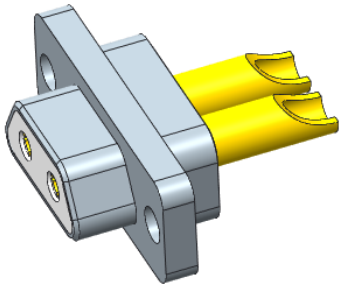
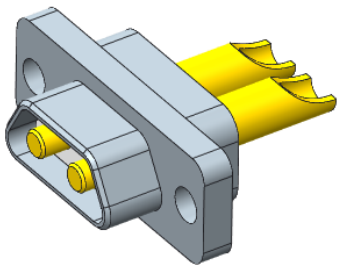
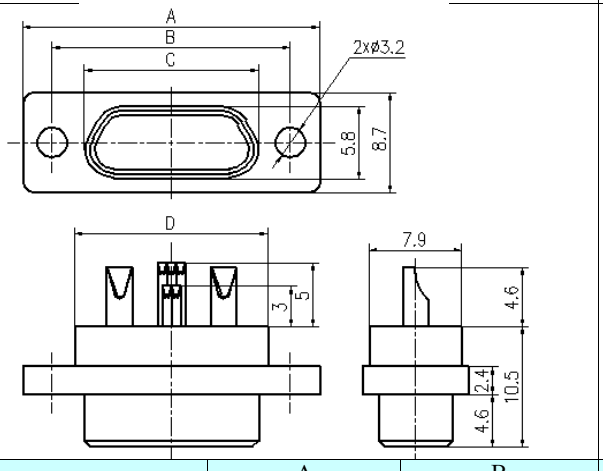
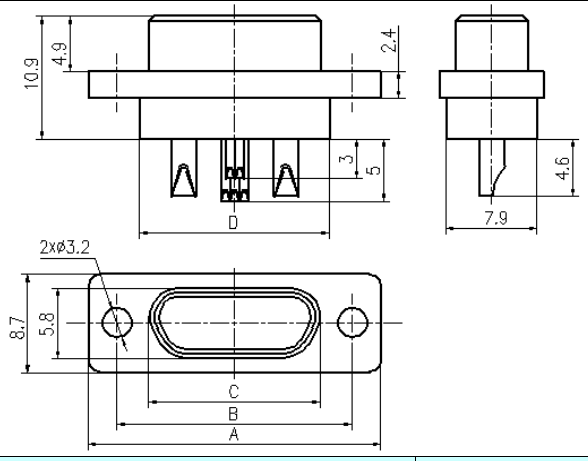
Overall and Installation Dimensions

Crimped wire type J30JXXPXXXSXXXC0/J30JXXPXXXPXXXC0

Plug: J30JXXPXXXSXXXC0	Socket: J30JXXPXXXPXXXC0
	
	

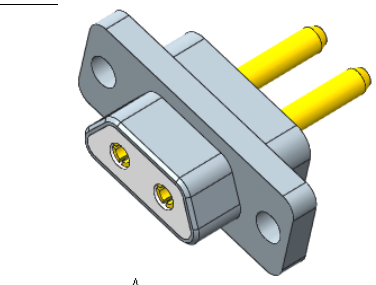
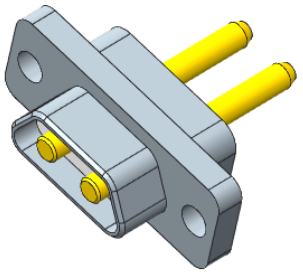
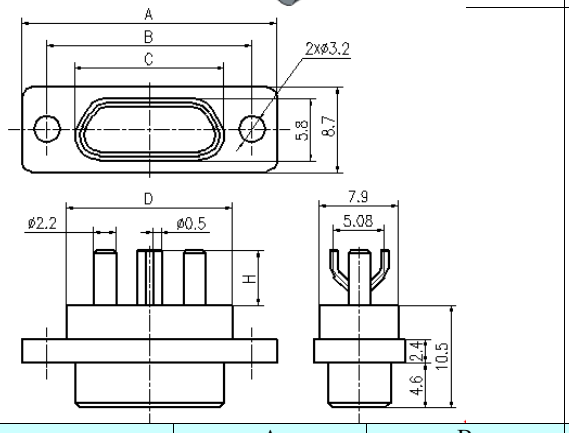
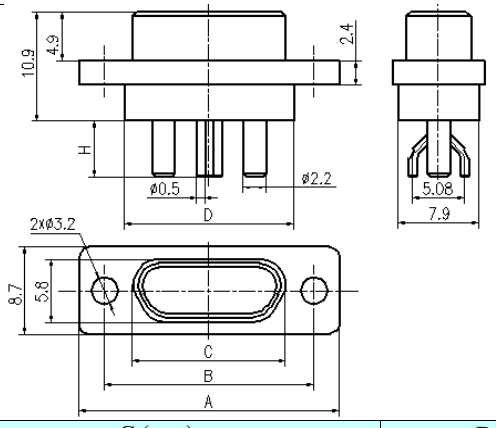
Number of cores	A (mm)	B (mm)	C (mm)		D (mm)
			Plug	Socket	
02P02	23.2	18.8	12.9	14.4	14.5
03P03	27.3	17	18.6	18.5	18.6
04P04	31.4	27	21.1	22.6	22.7
05P05	36.3	30.9	25	26.5	26.6
11P04					
21P02					
25P02					
27P02					
06P06	39.6	35.2	29.3	30.8	30.9
12P05					
07P07	43.7	39.3	33.4	34.9	35
13P06					
08P08	47.8	43.4	37.5	39	39.1
23P06					
09P09	51.9	47.5	41.6	43.1	43.2
10P10	56	51.6	45.7	47.2	47.3
09P02	29.7	24.5	18.6	20.1	20.2
16P03	34.8	29.3	23.4	24.9	25
39P02	42.8	37.3	31.4	32.9	33

Welded wire type J30JXXPXXXSXXXS0/J30JXXPXXXPXXXS0

Plug: J30JXXPXXXSXXXS0	Socket: J30JXXPXXXPXXXS0
	
	

Number of cores	A (mm)	B (mm)	C (mm)		D (mm)
			Plug	Socket	
02P02	23.2	18.8	12.9	14.4	14.5
03P03	27.3	17	18.6	18.5	18.6
04P04	31.4	27	21.1	22.6	22.7
05P05	36.3	30.9	25	26.5	26.6
11P04					
21P02					
25P02					
27P02					
06P06	39.6	35.2	29.3	30.8	30.9
12P05					
07P07	43.7	39.3	33.4	34.9	35
13P06					
08P08	47.8	43.4	37.5	39	39.1
23P06					
09P09	51.9	47.5	41.6	43.1	43.2
10P10	56	51.6	45.7	47.2	47.3
09P02	29.7	24.5	18.6	20.1	20.2
16P03	34.8	29.3	23.4	24.9	25
39P02	42.8	37.3	31.4	32.9	33

In-line PCB type J30JXXPXXXSXXXNX/J30JXXPXXXPXXXNX

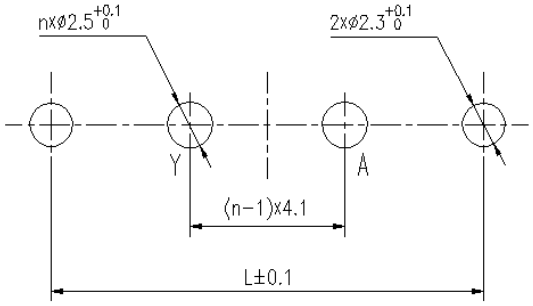
Plug: J30JXXPXXXSXXXNX	Socket: J30JXXPXXXPXXXNX
	
	

Number of cores	A (mm)	B (mm)	C (mm)		D (mm)
			Plug	Socket	
02P02	23.2	18.8	12.9	14.4	14.5
03P03	27.3	17	18.6	18.5	18.6
04P04	31.4	27	21.1	22.6	22.7
05P05	36.3	30.9	25	26.5	26.6
11P04					
21P02					
25P02					
27P02					
06P06	39.6	35.2	29.3	30.8	30.9
12P05					
07P07	43.7	39.3	33.4	34.9	35
13P06					
08P08	47.8	43.4	37.5	39	39.1
23P06					
09P09	51.9	47.5	41.6	43.1	43.2
10P10	56	51.6	45.7	47.2	47.3
09P02	29.7	24.5	18.6	20.1	20.2
16P03	34.8	29.3	23.4	24.9	25
39P02	42.8	37.3	31.4	32.9	33

Where H is the lead height and the dimensions are as follows:

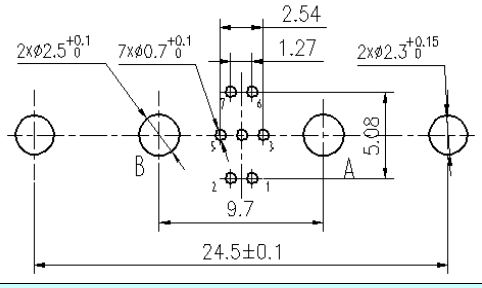
Type	N1	N2	N3	N4
H	5.7	6.7	7.7	8.7

Recommended hole size of in-line PCB plug: J30JXXPXX0S000NX/J30JXXPX XJSN0XNX;



J30JXXPXX0S000NX							
Contact arrangement	L	n	Y	Contact arrangement	L	n	Y
J30J02P02	18.8	2	B	J30J07P07	39.3	7	G
J30J03P03	22.9	3	C	J30J08P08	43.4	8	H
J30J04P04	27	4	D	J30J09P09	47.5	9	I
J30J05P05	30.9	5	E	J30J10P10	51.6	10	J
J30J06P06	35.2	6	F				

J30J09P02JSN0XNX



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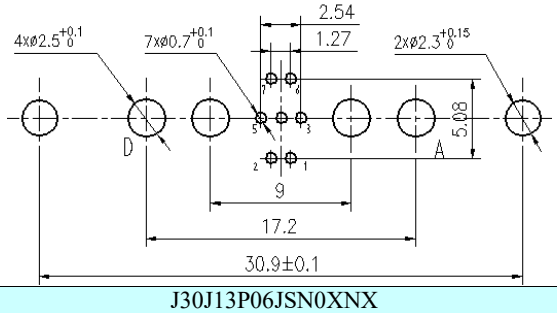

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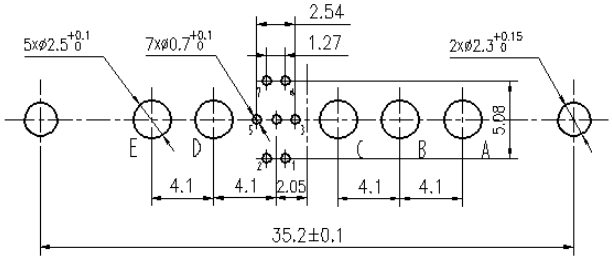

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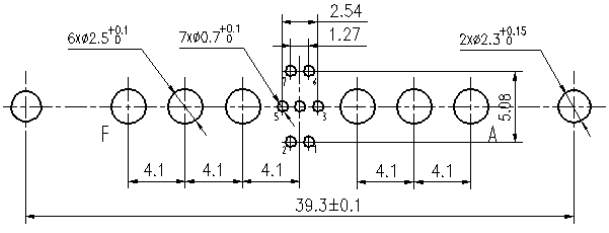

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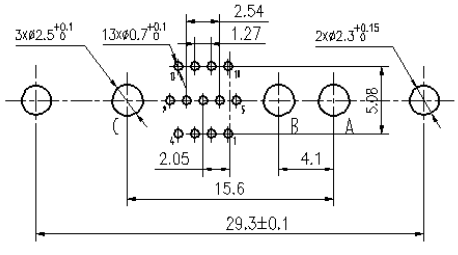

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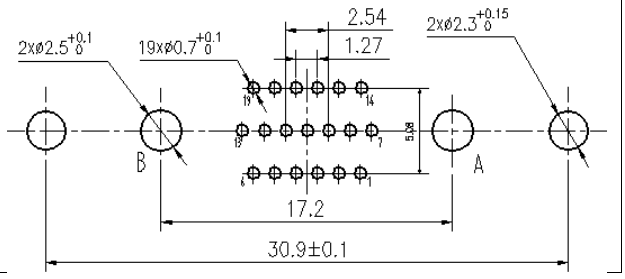

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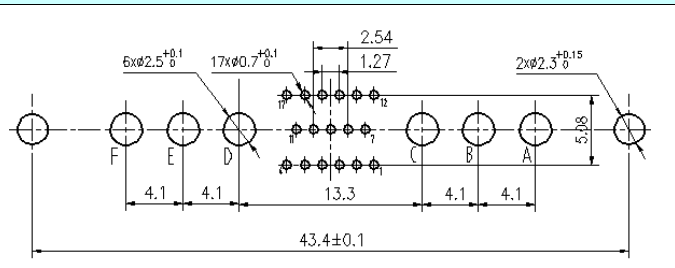	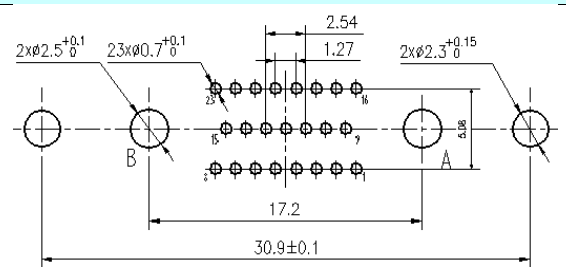
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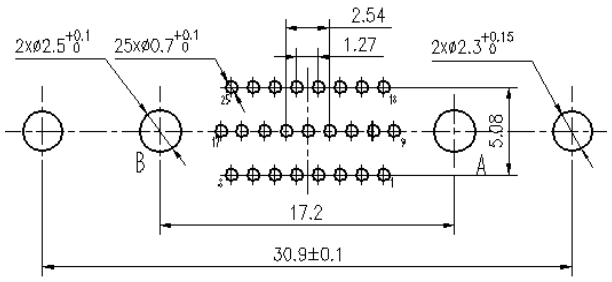
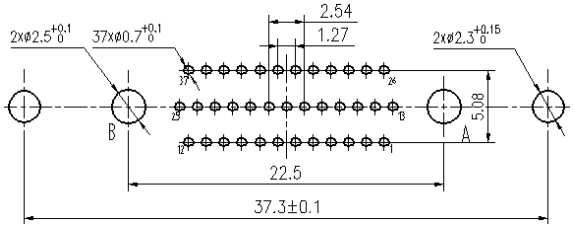
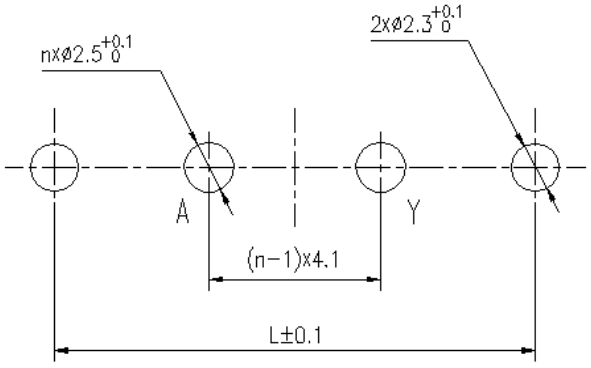
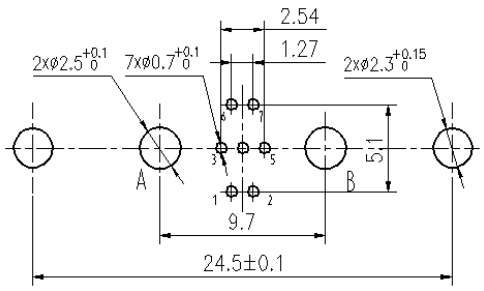
	

Recommended hole size of in-line PCB socket: J30JXXPXX0S000NX/J30JXXPXXKPN0XNX;

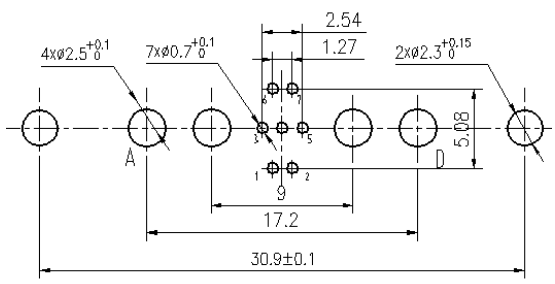


J30JXXPXX0P000NX							
Contact arrangement	L	n	Y	Contact arrangement	L	n	Y
J30J02P02	18.8	2	B	J30J07P07	39.3	7	G
J30J03P03	22.9	3	C	J30J08P08	43.4	8	H
J30J04P04	27	4	D	J30J09P09	47.5	9	I
J30J05P05	30.9	5	E	J30J10P10	51.6	10	J
J30J06P06	35.2	6	F				

J30J09P02KPN0XNX



J30J11P04KPN0XNX



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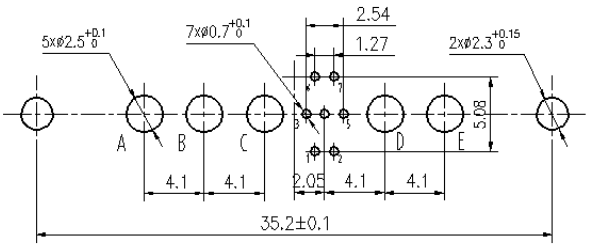

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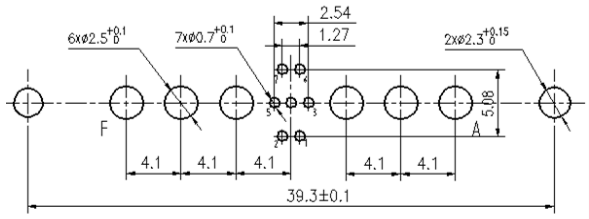

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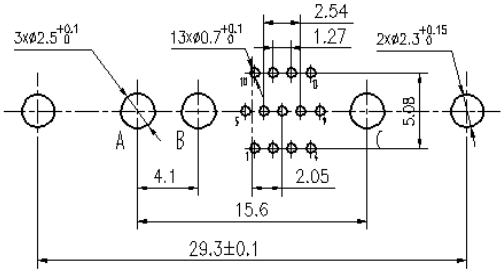

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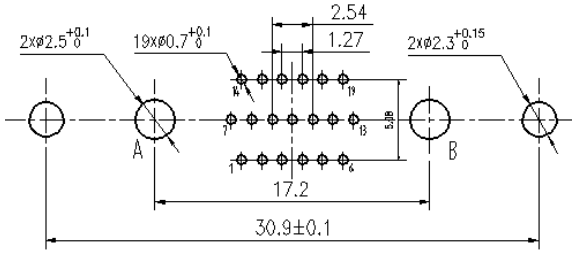

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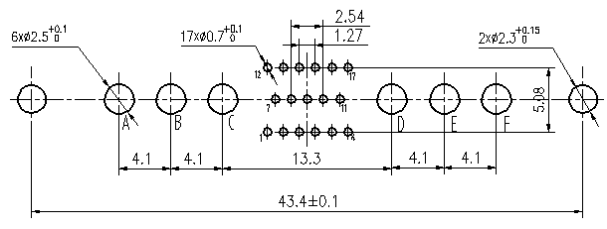

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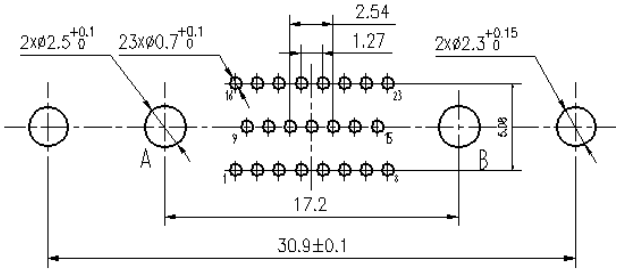

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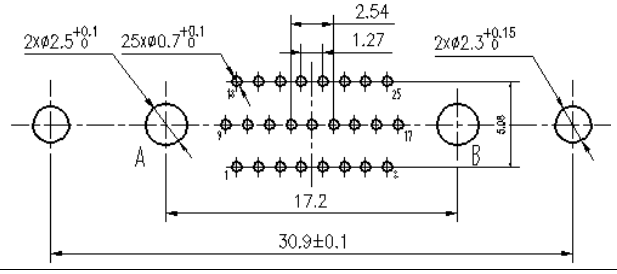
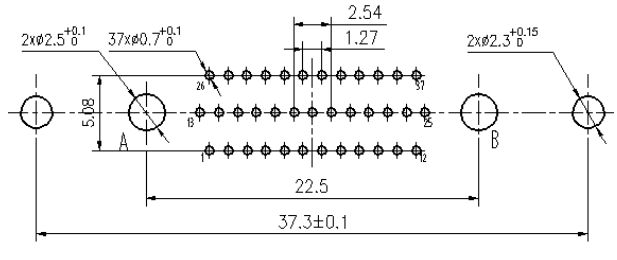
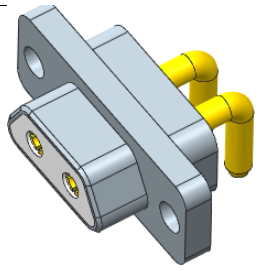
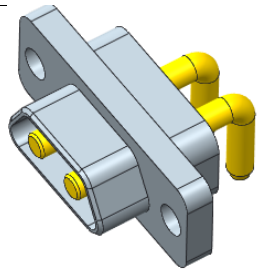
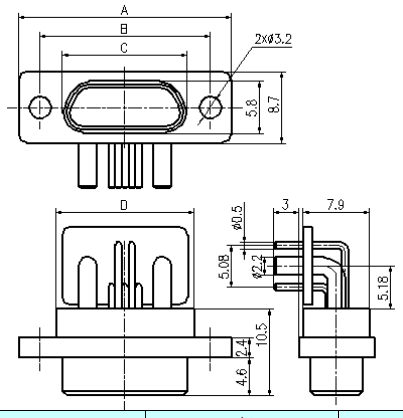
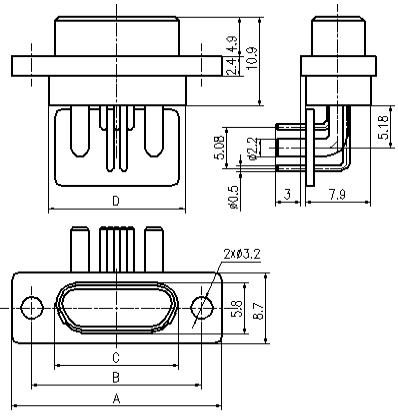


J30J39P02KPN0XNX



Bent PCB type J30JXXPXXXSXXXWX/J30JXXPXXXPXXXWX

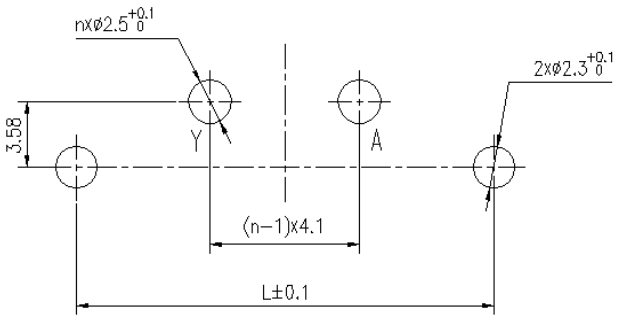
Plug: J30JXXPXXXSXXXWX	Socket: J30JXXPXXXPXXXWX
	
	

Number of cores	A (mm)	B (mm)	C (mm)		D (mm)
			Plug	Socket	
02P02	23.2	18.8	12.9	14.4	14.5
03P03	27.3	17	18.6	18.5	18.6
04P04	31.4	27	21.1	22.6	22.7
05P05	36.3	30.9	25	26.5	26.6
11P04					
21P02					
25P02					
27P02					
06P06	39.6	35.2	29.3	30.8	30.9
12P05					
07P07	43.7	39.3	33.4	34.9	35
13P06					
08P08	47.8	43.4	37.5	39	39.1
23P06					
09P09	51.9	47.5	41.6	43.1	43.2
10P10	56	51.6	45.7	47.2	47.3
09P02	29.7	24.5	18.6	20.1	20.2
16P03	34.8	29.3	23.4	24.9	25
39P02	42.8	37.3	31.4	32.9	33

Where H is the lead height and the dimensions are as follows:

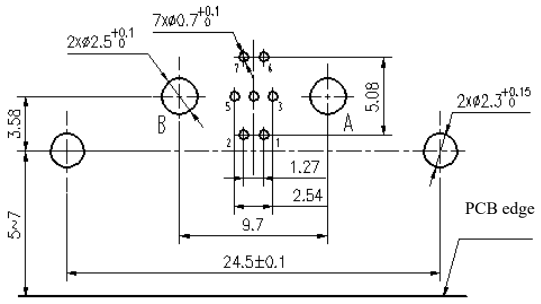
Type	W1	W2	W3	W4
H	3	4	5	6

Recommended hole size of bent PCB plug: J30JXXPXX0S000WX/J30JXXPXXJSW0XWX;

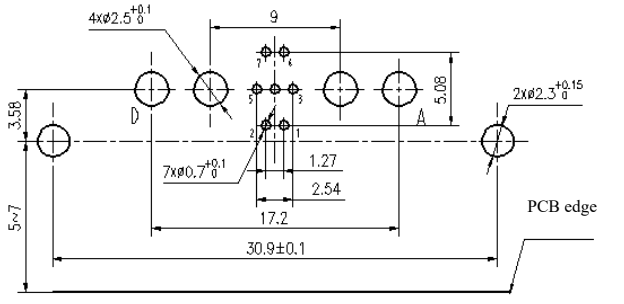


J30JXXPXX0S000WX							
Contact arrangement	L	n	Y	Contact arrangement	L	n	Y
J30J02P02	18.8	2	B	J30J07P07	39.3	7	G
J30J03P03	22.9	3	C	J30J08P08	43.4	8	H
J30J04P04	27	4	D	J30J09P09	47.5	9	I
J30J05P05	30.9	5	E	J30J10P10	51.6	10	J
J30J06P06	35.2	6	F				

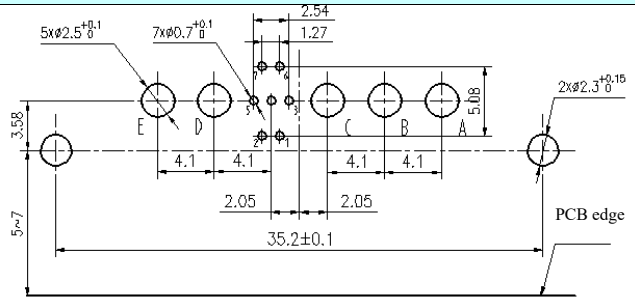
J30J09P02JSW0XWX



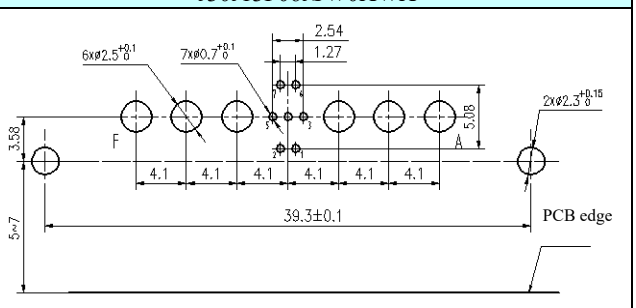
J30J11P04JSW0XWX



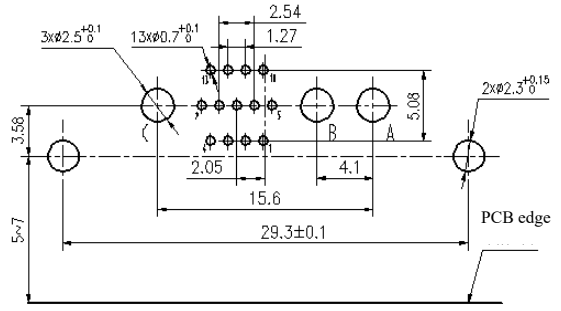
J30J12P05JSW0XWX



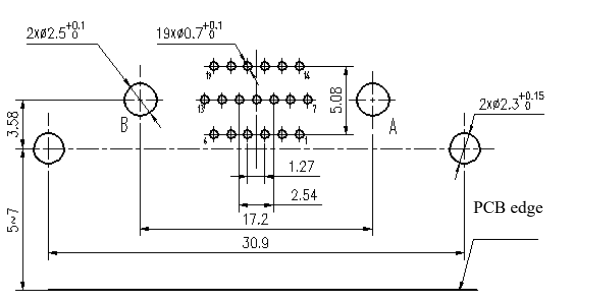
J30J13P06JSW0XWX

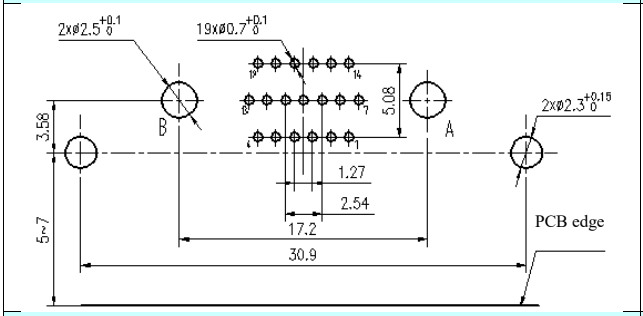
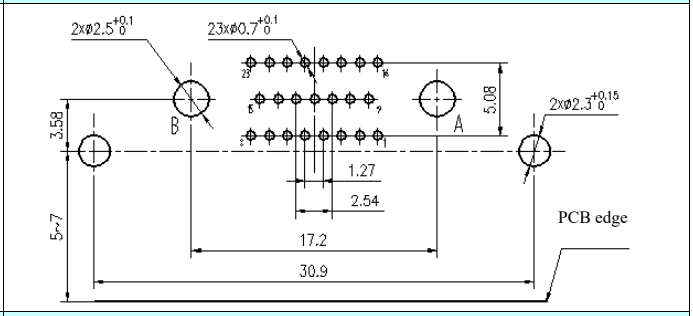
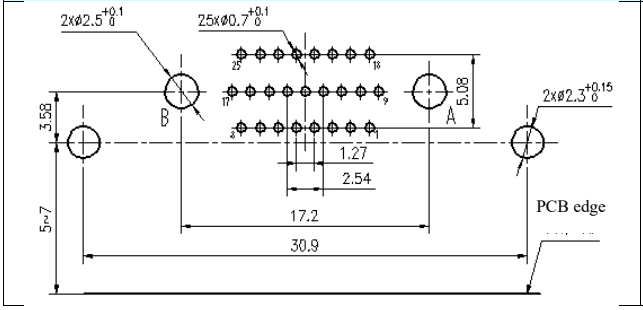
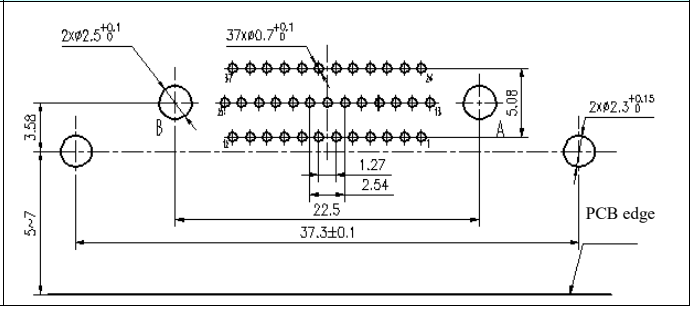


J30J16P03JSW0XWX

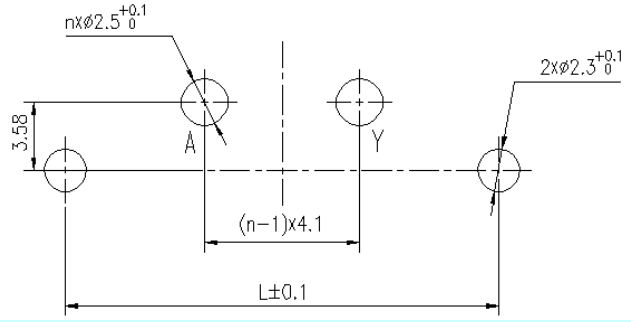


J30J21P02JSW0XWX



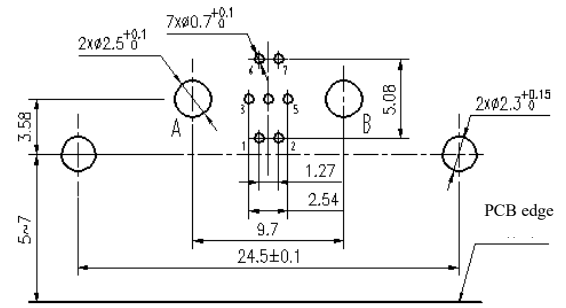
J30J23P06JSW0XWX	J30J25P02JSW0XWX
	
J30J27P02JSW0XWX	**J30J39P02JSW0XWX**
	

Recommended hole size of bent socket: J30JXXPXX0P000WX/J30JXXPXXKPW0XWX;

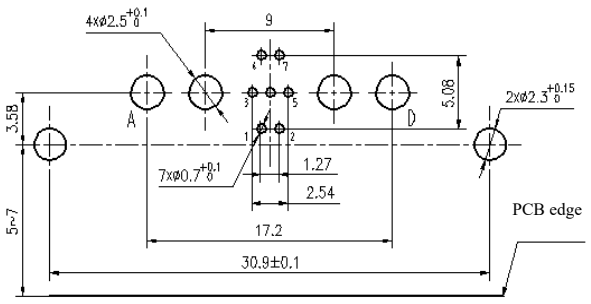


J30JXXPXX0P000WX							
Contact arrangement	L	n	X	Contact arrangement	L	n	X
J30J02P02	18.8	2	B	J30J07P07	39.3	7	G
J30J03P03	22.9	3	C	J30J08P08	43.4	8	H
J30J04P04	27	4	D	J30J09P09	47.5	9	I
J30J05P05	30.9	5	E	J30J10P10	51.6	10	J
J30J06P06	35.2	6	F				

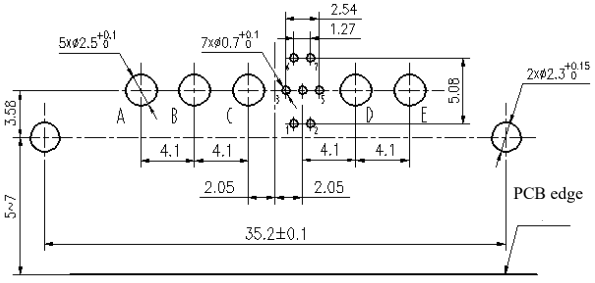
J30J09P02KPW0XWX



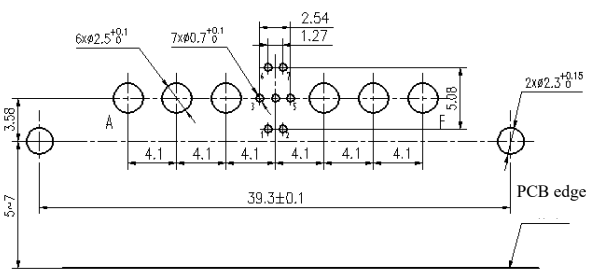
J30J11P04KPW0XWX



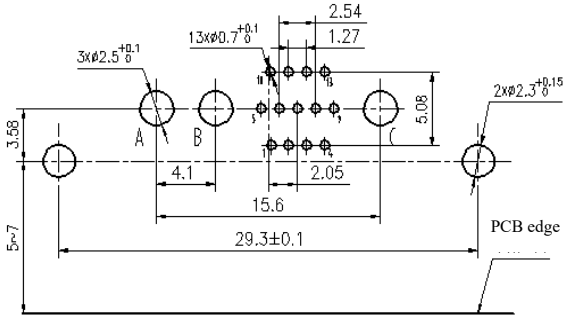
J30J12P05KPW0XWX



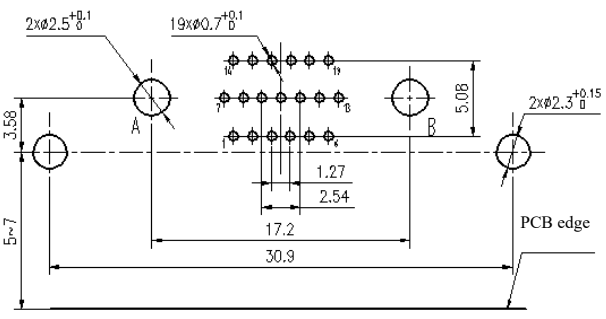
J30J13P06KPW0XWX



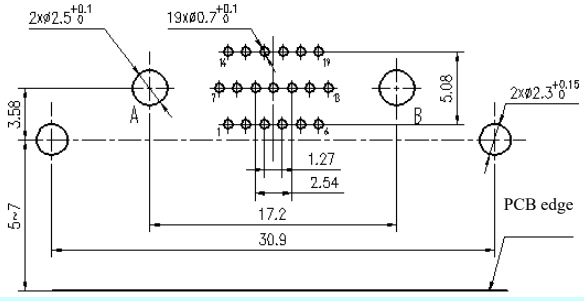
J30J16P03KPW0XWX



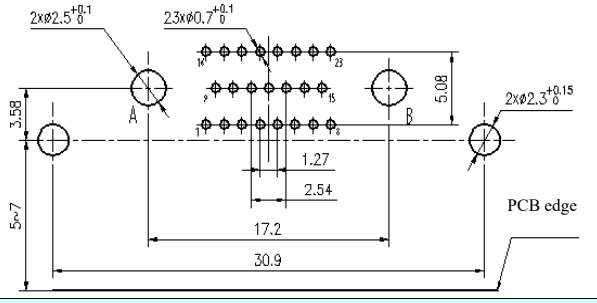
J30J21P02KPW0XWX



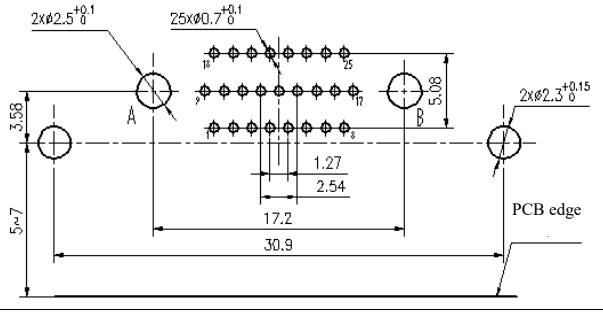
J30J23P06KPW0XWX



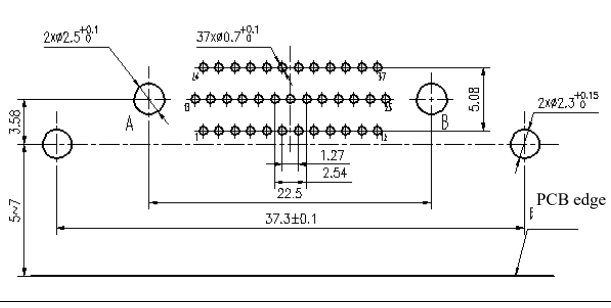
J30J25P02KPW0XWX



J30J27P02KPW0XWX



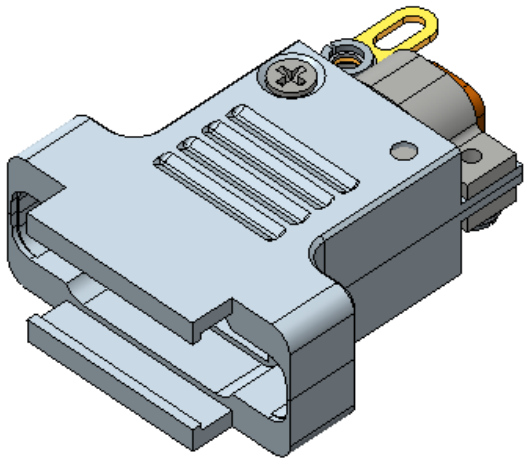
J30J39P02KPW0XWX



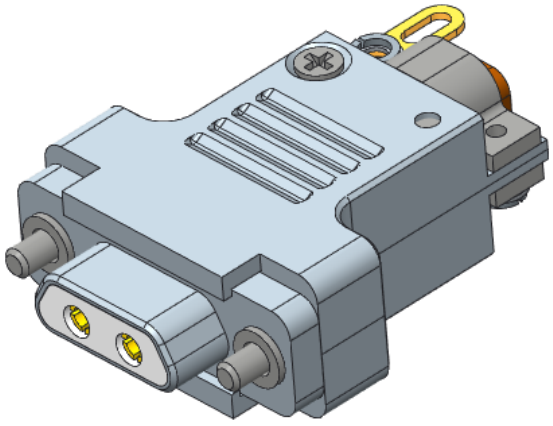
Clamp Assembly of J30J with Large and Small-current Mixed

A3 clamp assembly

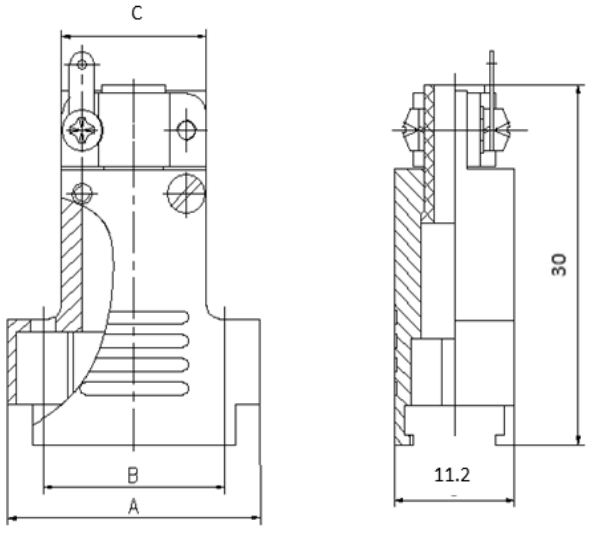
A3 clamp can be used together with basic crimping type and welding type, and can also be ordered separately. The code for separate ordering is shown in the following table. The free-end locking assembly is usually selected for products equipped with A3 clamps.



A3 clamp



Assembly drawing of A3 clamp and product

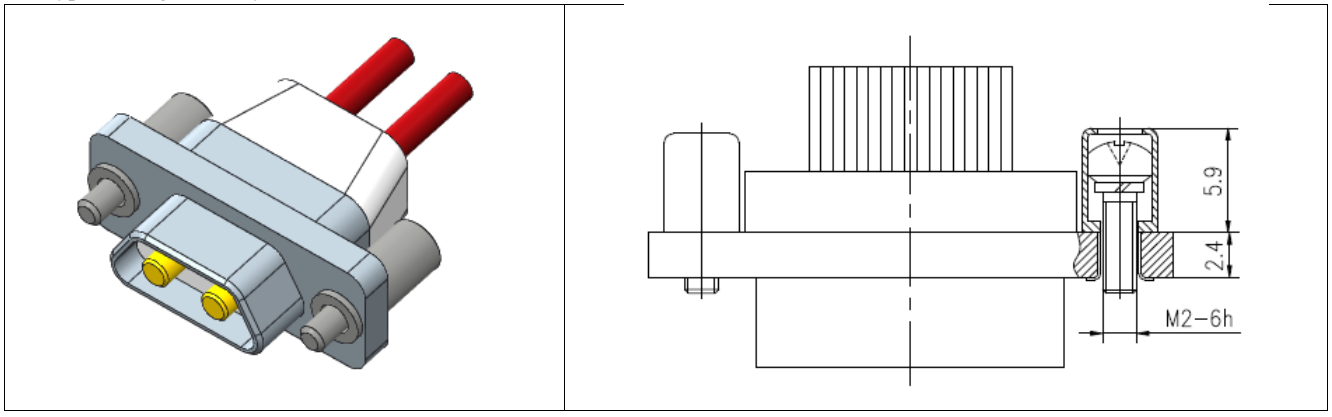


Number of cores	A (mm)	B (mm)	C (mm)
02P02	23.3	18.8	14.5
03P03	27.4	17	18.6
04P04	31.5	27	22.7
05P05	36.4	30.9	26.6
11P04			
21P02			
25P02			
27P02			
06P06	39.7	35.2	30.9
12P05			
07P07	43.8	39.3	35
13P06			
08P08	47.9	43.4	39.1
23P06			
09P09	52	47.5	43.2
10P10	56.1	51.6	47.3
09P02	29.8	24.5	20.2
16P03	34.8	29.3	25
39P02	42.9	37.3	33

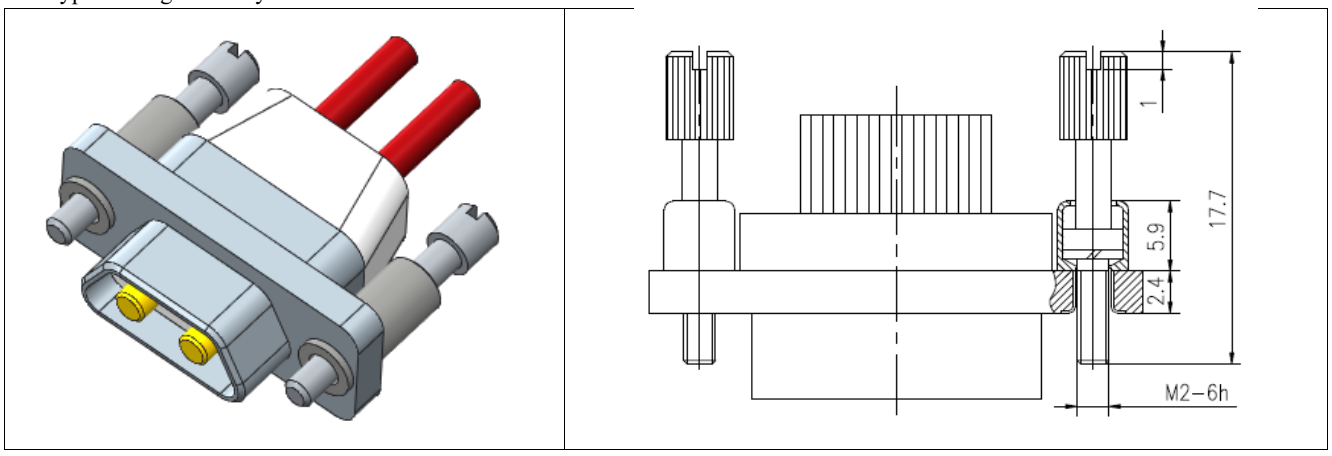
Locking Assembly/Free-end Locking Assembly of J30J with Large and Small-current Mixed

The free-end locking assembly should only be combined with J30J products with large and small-current mixed to form a free-end connector, and the locking end butted with it is usually the fixed-end locking assembly.

L00-type locking assembly



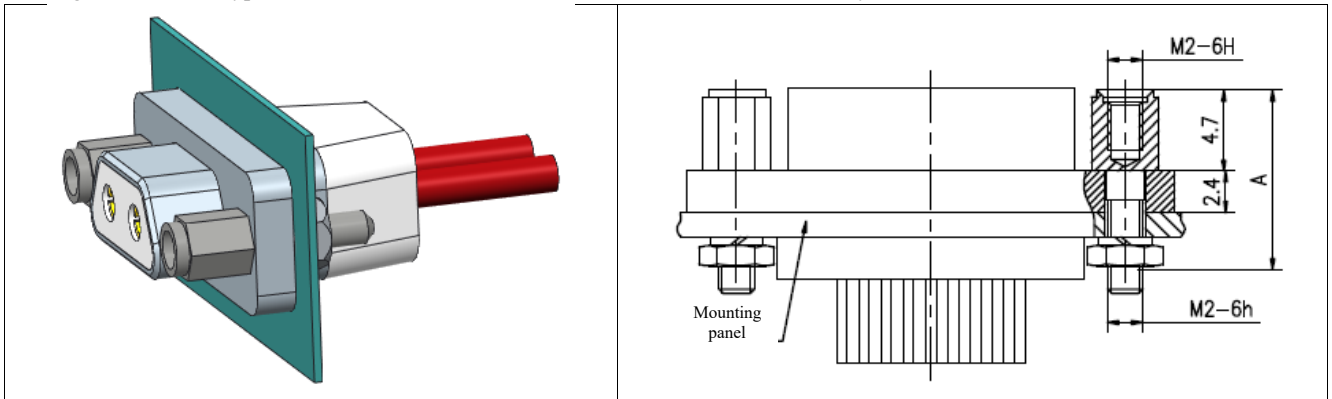
K00-type locking assembly



Locking Assembly of J30J with Large and Small-current Mixed/J30J Fixed-end Locking Assembly

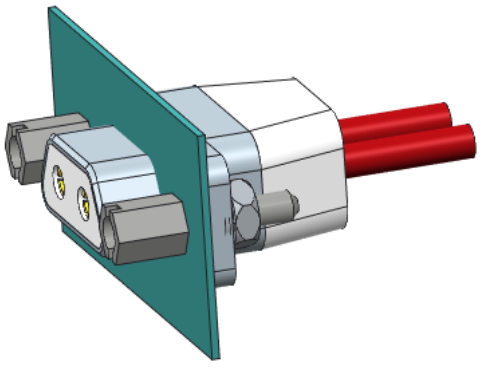
The fixed-end locking assembly is suitable for fixing the connector on a mounting plate or a PCB. The fixed-end locking assemblies can be butt-jointed and locked with the free-end locking assembly.

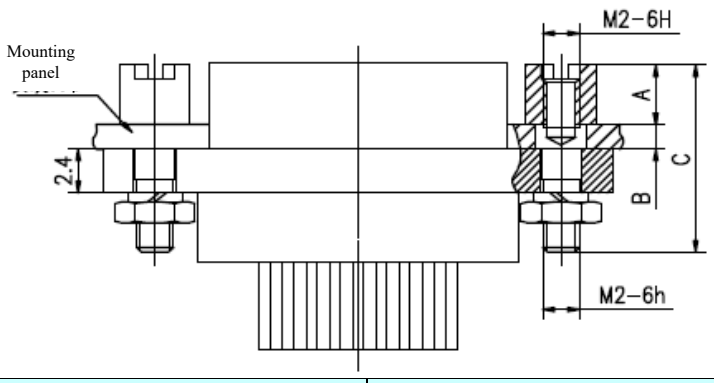
Locking assemblies of type P00, P12 are suitable for installation in front of the board only.



Fixed-end locking assembly	A
P00 type	12.6
P12 type	15.6

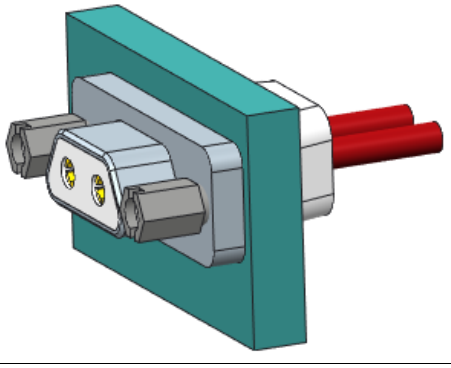
Locking assemblies of type P05, P06, P07, P08 and P09 are suitable for installation after the plate only.

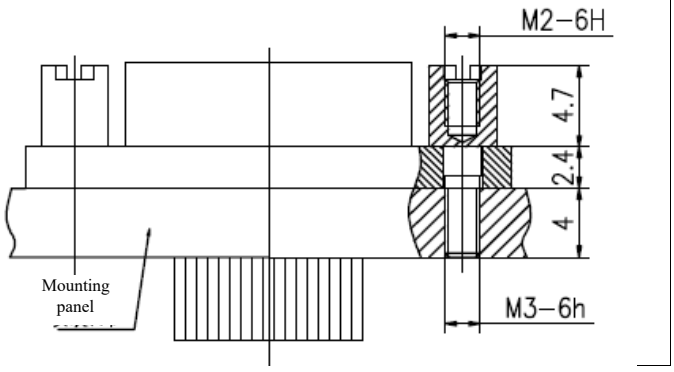




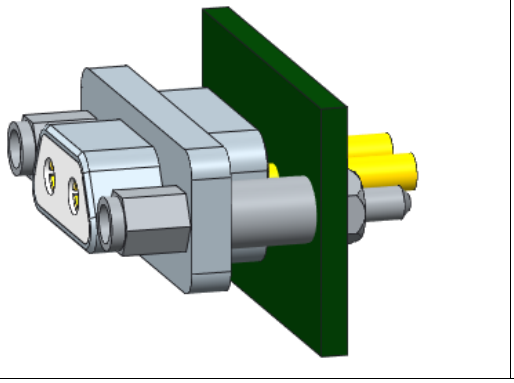
Fixed-end locking assembly	A	B	C
P05	4.1	0.6	12.6
P06	3.3	1.4	12.6
P07	2.5	2.2	12.6
P08	1.3	3.4	12.6
P09	2.7	2	20

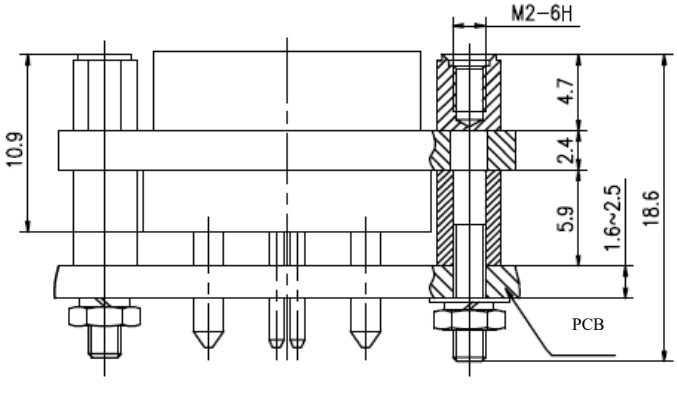
Locking assemblies of type P11 are suitable for thicker mounting panels with their own threads.





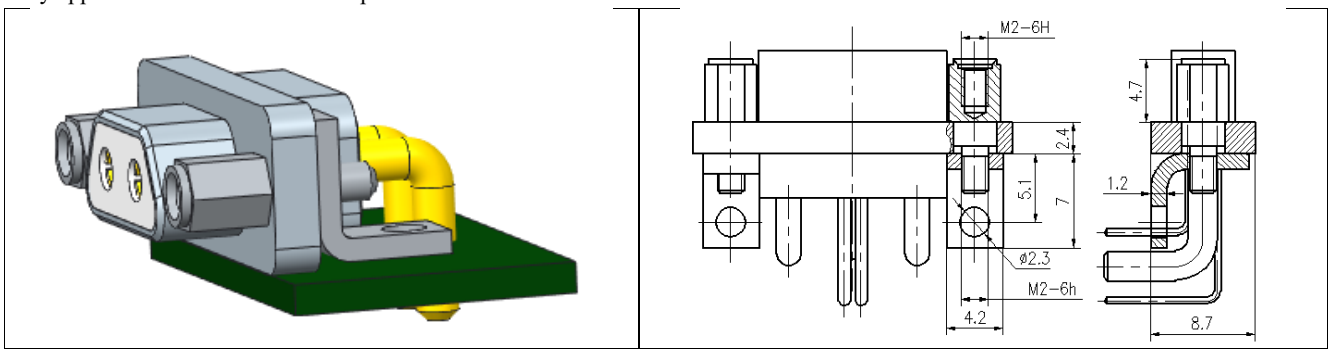
Locking assemblies of type P03 are suitable for in-line PCB only.





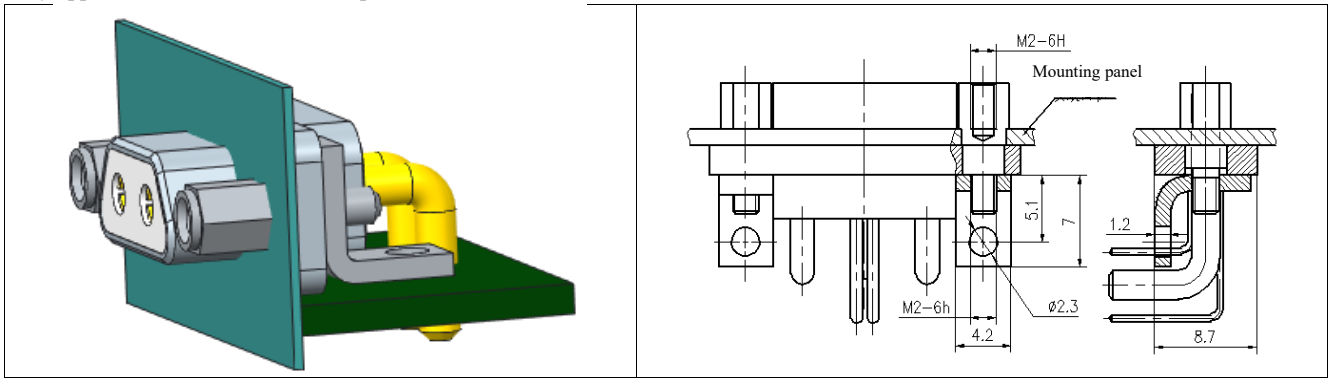
P04-type locking assembly

Only applicable to the 90° bent PCB products installed in front of the board.

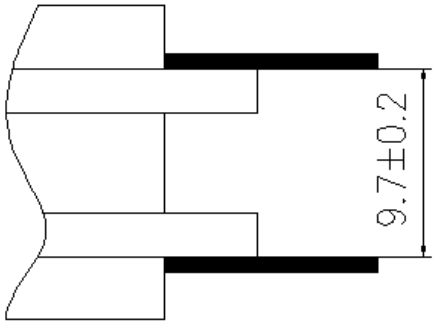


P10-type locking assembly

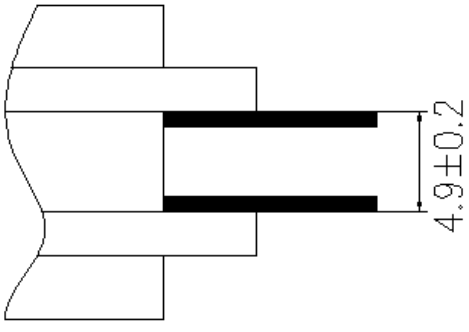
Only applicable to the 90° bent PCB products installed behind the board.



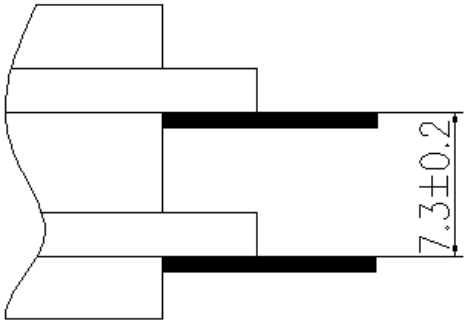
Distance dimension of mounting surface



Plugs and sockets are installed in front of the board



Plugs and sockets are installed behind the board

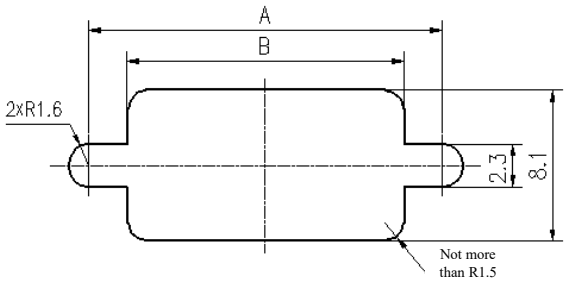


Plugs are installed in front of the board, and sockets are installed behind the board

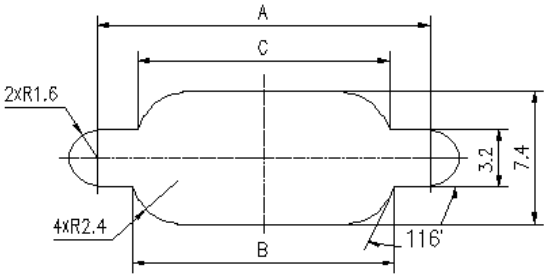
Opening size of mounting plate

J30JXXPXX0S/J30JXXPXXJS/J30JXXPXX0P/J30JXXPXXKP

Hole size for installation in front of the board



Hole size for installation behind the board



	Hole size for installation in front of the board		Hole size for installation behind the board		
Number of contact cores	A	B	A	B	C
02P02	18.8	14.8	18.8	14.8	12.6
03P03	22.9	18.9	22.9	18.9	16.7
04P04	29	23	29	23	20.8
05P05	30.9	26.9	30.9	26.9	24.7
11P04					
21P02					
25P02					
27P02					
06P06	35.2	31.2	35.2	31.2	29
12P05					
07P07	39.3	35.3	39.3	35.3	33.1
13P06					
08P08	43.4	39.4	43.4	39.4	37.2
23P06					
09P09	47.5	43.5	47.5	43.5	41.3
10P10	51.6	47.6	51.6	47.6	45.4
09P02	24.5	20.5	24.5	20.5	18.3 3
16P03	29.3	25.3	29.3	25.3	23.1
39P02	37.3	33.3	37.3	33.3	31.1

MDMA Micro-rectangular Electrical Connector with Detachable Contact

Product Overview

- Execute MIL-C-83513 General Specification
- Elastic pin and rigid Jack is adopted for the contact
- Detachable contact
- 6 types of spectrum specifications. See the figure of Contact Spectrum for details
- Small in size, light in weight, flexible in use, with single-point maintenance
- Execute enterprise standard: Q/Ag1.253 Detailed Specification for MDMA Micro-rectangular Electrical Connector with Detachable Crimped Contact

Product Performance

Mechanical Properties

Housing	Aluminum alloy
Plating	Electroless nickel plating
Mechanical life	500 plugging and unplugging cycles
Maintenance aging	Disassembly force of contact ≤ 10 N

Sinusoidal vibration	Frequency 10Hz ~ 2000 Hz, Acceleration 196 m/s^2
Random vibration	Frequency 20Hz ~ 2000 Hz, Power spectral density 0.2g^2/Hz, Total RMS 16.4G
Impact	Peak sawtooth wave after 11 ms, peak acceleration 490 m/s^2
Contact arrangement	Center spacing 1.27 mm, Row spacing 1.1 mm

Electrical Performance

Operating voltage at room temperature 150Vrms

Contact resistance and rated current of contacts

Contact Specification	Adapted wire	Contact resistance	Rated current
24#	AWG 26, 28	≤ 10mΩ	2.5A

Insulation resistance (under standard atmospheric conditions) ≥ 5000 MΩ
Under wet conditions ≥ 1 MΩ

Withstand voltage

Altitude	Initial value	After getting wet
Sea level	600Vrms	360 Vrms
21336m(4.39kPa)	150 Vrms	—

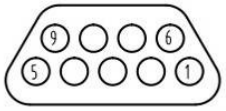
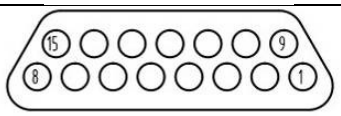
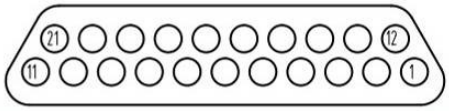
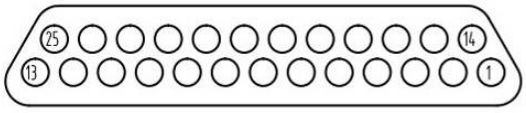
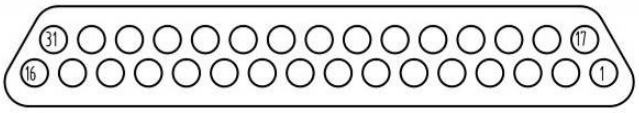
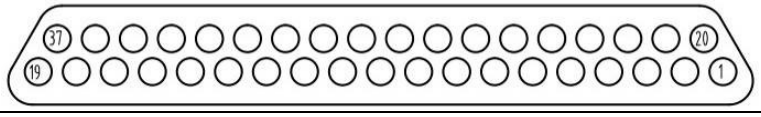
Environmental Performance

Operating temperature	-55 ℃ ~ + 125 ℃
Salt spray	48h
Relative humidity	98% at 40℃
Working height (at low air pressure)	21336m (4.39 kPa)

Model Designation

Basic Serial No.	MDMA	-	37	P	L
Number of cores	9, 15, 21, 25, 31, 37 (See the figure of Contact Spectrum for details)				
Contact type	P - Pin S - Jack (the plug is installed with the pin and the socket is installed with the Jack, which is the fixed collocation)				
Locking	Locking accessories - L, L7, L9, K, K2				
Mounting Accessories	Mounting Accessories - P, P0, P3, P4, P8, P9, P11, P45, P50, P52 (See the figure of J30J locking mounting accessories in this sample for details)				

Contact Spectrum (View of Pin-mounted Insulator Insertion Surface)

9 cores	
15 cores	
21 cores	
25 cores	
31 cores	
37 cores	

Instructions for Selection and Ordering

1. Each set of electrical connector is provided with 1 spare contact and 1 set of removal tool;

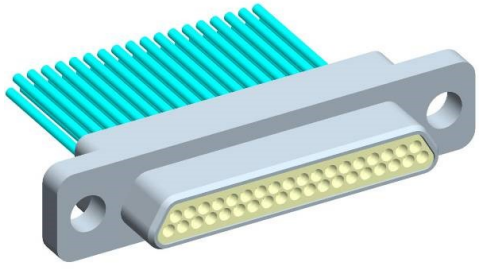
2. The contact of the electrical connector is crimping type, and the user can crimp the adapted wire according to the use needs. It is recommended to use special crimping pliers and locators for crimping;

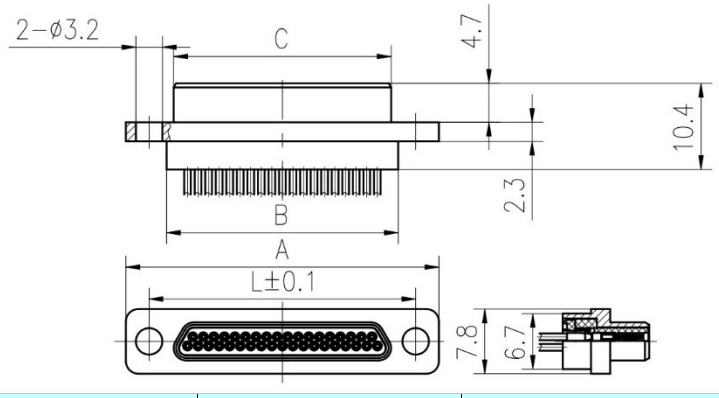
3. Special tools and spare contacts for this product can be ordered separately according to the following table.

5	Jack	Removal tool	Crimping plier	Pin locator	Jack locator
MDMA-00-01	MDMA-00-02	MDMA-00-10	YJQ-W1A	HD-MDMA-P	HD-MDMA-S

Overall and Installation Dimensions

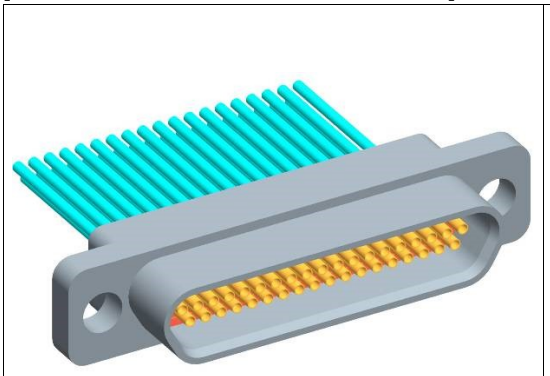
[MDMA-XXP Plug with detachable contact]

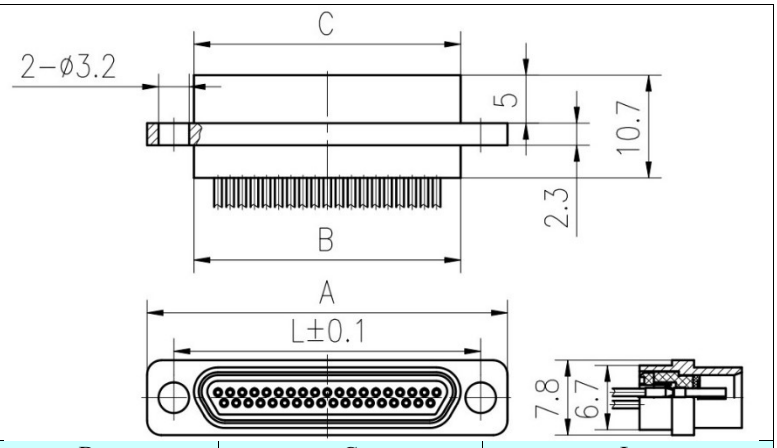




Number of cores	A	B	C	L
9	19.9	10.1	8.4	14.3
15	23.7	13.9	12.2	18.2
21	27.5	17.7	16	22
25	30.1	20.3	18.6	24.5
31	33.9	24.1	22.4	28.3
37	37.7	27.9	26.2	32.1

[MDMA-XXS Socket with detachable contact]





Number of cores	A	B	C	L
9	19.9	10.1	10.1	14.3
15	23.7	13.9	13.9	18.2
21	27.5	17.7	17.7	22
25	30.1	20.3	20.3	24.5
31	33.9	24.1	24.1	28.3
37	37.7	27.9	27.9	32.1

Refer to the J30J plug-and-socket insertion dimension section in the sample for the plug-and-socket insertion dimension.

See opening dimensions of J30J mounting plate in this sample for the opening dimensions of mounting plate.

Operation Method

1. Inspection of electrical connectors before use

a) The model and appearance of the electrical connector shall meet the relevant requirements, and the contact word sequence on the plug and socket of the electrical connector shall be one-to-one correspondence;

b) The housing and interface of the electrical connector shall be free of notch and crack;

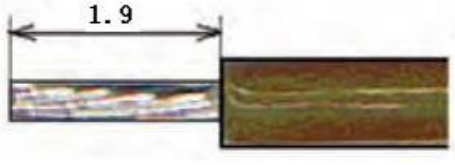
c) Accessories such as contacts, removal tools and interface rubber pads packed with the product shall be free of defects or stains.

2. Contact and wire crimping

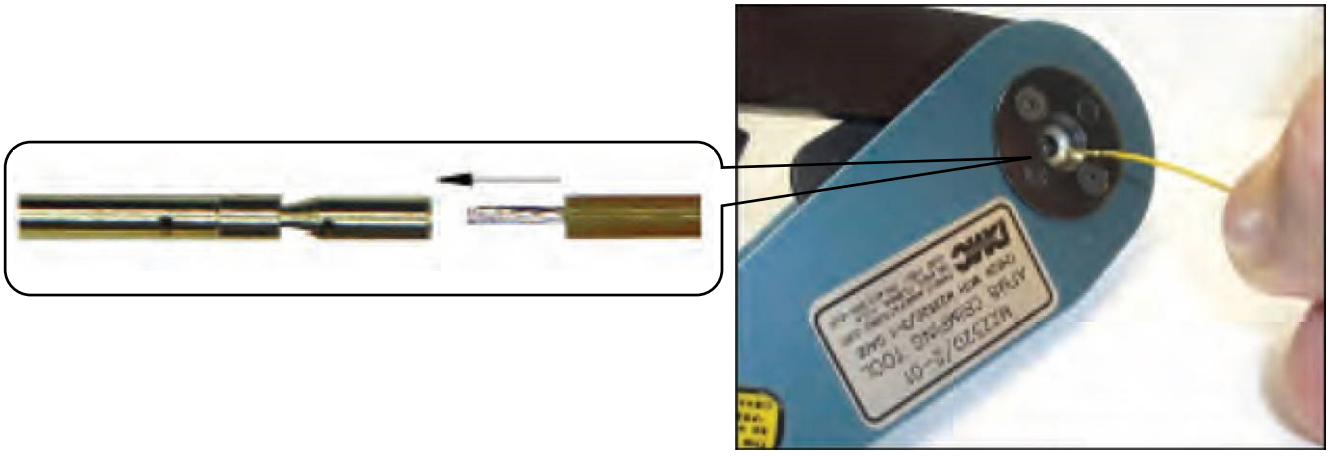
The terminated wire adopts the stranded wire in accordance with GJB 773A/23-2000, with the wire gauge number (AWG): 26 or 28; crimp the contact and conductor according to the following steps:

a) Cut a wire with a certain length according to actual use requirements and allowance;

b) Strip the insulation at the crimping end of the wire as shown in the figure, and check whether the conductor is damaged or worn;



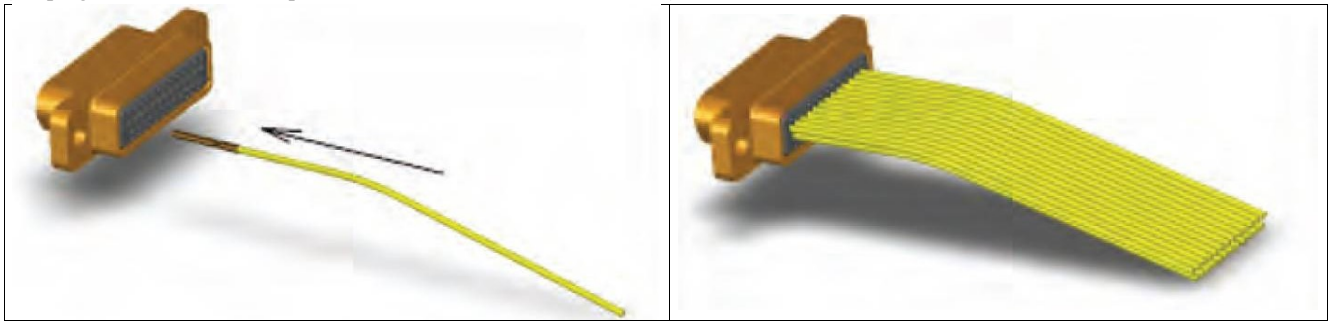
c) Completely install the stripped wire core into the crimping hole of the contact, use the crimping plier M22520/2-01 (or YJQ-W1A), gear 2, and use the pin or socket special locator (HD-MDMA-P/MDMA-S) for crimping;



d) Check whether the crimp connection between the wire and the contact is reliable, the crimp connection is symmetrical and uniform, and the contact is free from damage.

3. Installation of contact

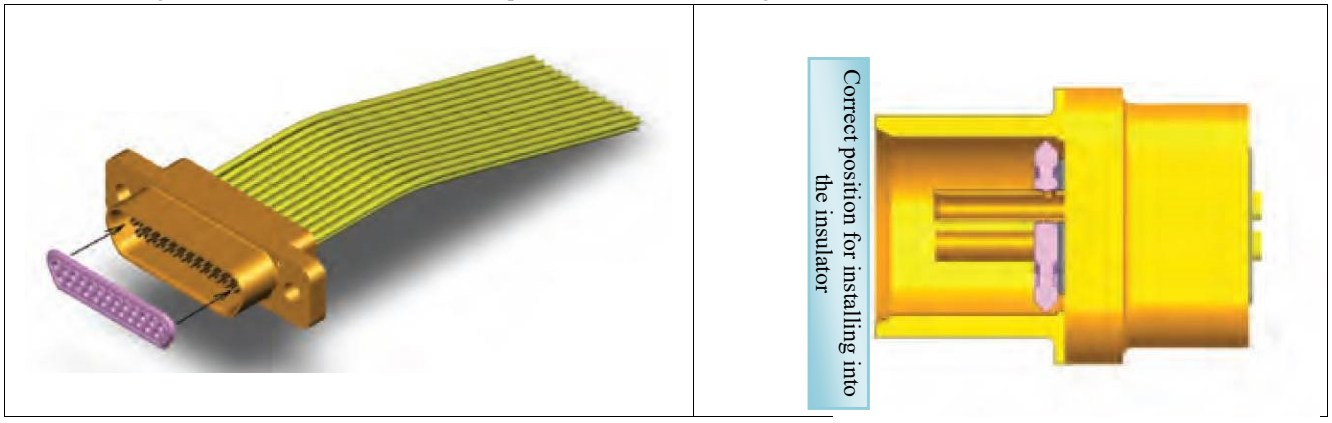
a) Push the pin or Jack with qualified crimping into the corresponding hole of the insulator from the non-plugged end of the plug or socket (the plug is installed with the pin, the socket is installed with the Jack);



b) Lightly pull the wire (the pulling force is not more than 22.2 N), and confirm that the contact has been correctly installed in the hole and fixed well.

4. Interface rubber pad

After confirming that the Jack contact is installed in place, install the interface gasket from the insertion surface of the socket.



5. Insertion

Install the connector on the panel with the mounting screws, and then insert the plug and socket in place and screw the two locking screws into the corresponding locking screw holes to complete the connection.

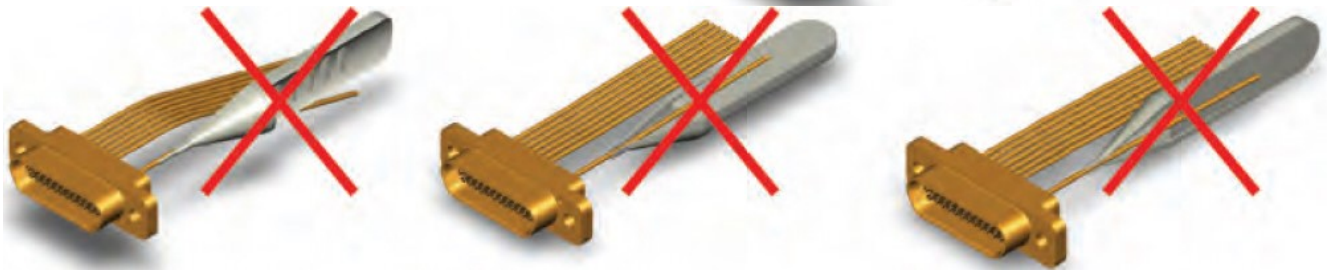
6. Separation

Loosen the locking screws and locking screw holes on both sides, and separate the plug from the socket with axial force.

7. Removal of contact

a) Insert the tip of the removal tool (MDMA-00-10) from the outer gap between the contact and the insulator (where the gap is large) to the bottom, and spread the fixed claw;

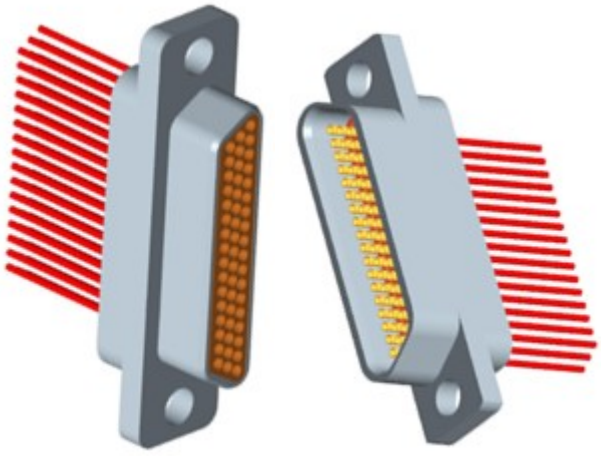
Note that the tip of the removal tool must be inserted from the outside of each row of contacts, and the insertion in other directions is wrong and not allowed;



b) Hold the wire and the removal tool, and withdraw them together with the contact from the insulator hole; note that the insertion and withdrawal of the removal tool shall be carried out along the vertical direction of the contact without obvious deflection.

J30 Series Micro-rectangular Electrical Connector

Product Overview



- Product performance compliant with the requirements of equivalent to MIL-C-83513
- Number of cores: seven specifications of 9, 15, 21, 25, 31, 37 and 51 cores
- Adopt stranded elastic pins (twist pins) with high contact density
- The product is made of plastic housing, which is equivalent to MD series in the United States
- Available in a variety of locking assemblies and tail terminations
- Cross-sectional area of wire core 0.12mm^2 ~ 0.15mm^2
- Execute enterprise standard: Q/Ag1.264 Detailed Specification for J30 Series Micro-rectangular Electrical Connectors

Product Performance

Mechanical Properties

Housing	Thermoplastic (insulator)	Vibration	Frequency 10 ~ 2000 Hz, Acceleration 196 m/s^2
Contact	Gold-plated copper alloy, crimping type, PCB type	Impact	490m/s^2, 11ms
Mechanical life	500 plugging and unplugging cycles		

Electrical Performance

Contact resistance and rated current of contacts

Contact Specification	Contact resistance mΩ		Rated current A
	Before lifetime	After lifetime	
Twist pins	≤10	≤20	3

Insulation resistance	under normal conditions ≥ 5000 MΩ; under damp and hot conditions ≥ 100 MΩ
Withstand voltage	(under normal conditions) 600Vrms

Environmental Performance

Temperature range	-55 ℃ ~ +125 ℃	Relative humidity	90% ~ 95% at 40 ℃
Salt spray	48h	Working air pressure	101.33 kPa ~ 4.39 kPa

Model Designation

Code of main designation	J30	A	-37	TJ	W	L1	-	J	(Additional Information)
Housing change	Basic type (unmarked), A, B								
Number of contacts	9; 15; 21; 25; 31; 37; 51								
Types of connectors and contacts	TJ – plug installed with the pin, ZK – socket installed with the Jack								
Tail type	Unmarked - Crimping, N - In-line PCB, N1 - In-line PCB (2.54 × 2.54), W - Bent PCB (2.54 × 2.54)								
Locking assembly type	Free-end: L, L1, L2 Fixed-end: P1, P2, P3, P4								
Basic variant	Unmarked - Unmodified; J - PCB grid spacing 1.27 × 2.54								
Additional Information	Wire requirements: See Table 1, for crimping type products only;								

Table 1

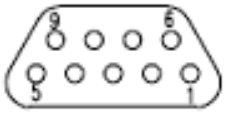
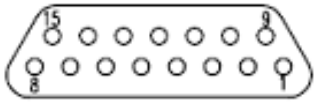
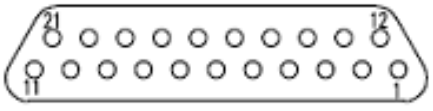
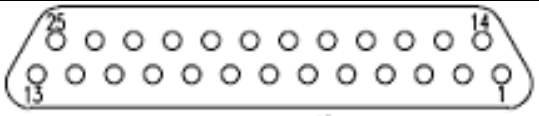
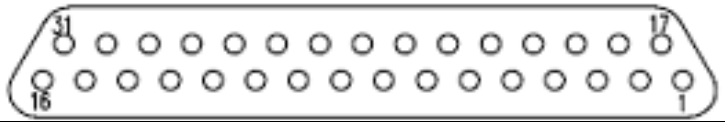
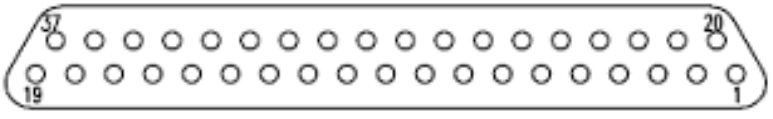
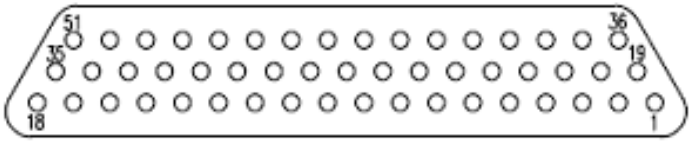
No.	Classification feature	Classification content	Mark code
1	Wire color	R: red; W: white; M: purple; G: green; A: gray; U: blue; Y: yellow; B: black; N: orange;	R, W, M, G, A, U, Y, B, N
2	L	Connector with wires	L
3	Wire length	1000: wire length value in mm	1000
4	Wire specification	A: 0.15mm^2 AFR-250 B: 0.12mm^2 AFR-250 D: 0.15mm^2 AFRP-250 F: 0.15mm^2 AF-250 etc.	A, B, D, F etc.
5	Additional requirements	No indication: no additional requirements 1: Wire jacket nylon sleeve 2: Wire jacket anti-wave sleeve 3: Wire jacket anti-wave sleeve and nylon sleeve 4: Marker at the end of wire, etc.	1, 2,3, 4, etc.

Example of Marks

J30-37TJL1(WL500A1)

The above marks indicate that the number of contacts is 37 cores, the plug is installed with the pin, and the end of the contact is crimped, with a L1-type locking assembly; the specification of the wire is AFR-250, the cross-sectional area of the wire core is 0.15 mm^2, the length is 500 mm, and the color is white; the whole wire harness is covered with a nylon sleeve.

J30 Series Spectrum Arrangement (View of Pin-mounted Insulator Insertion Surface)

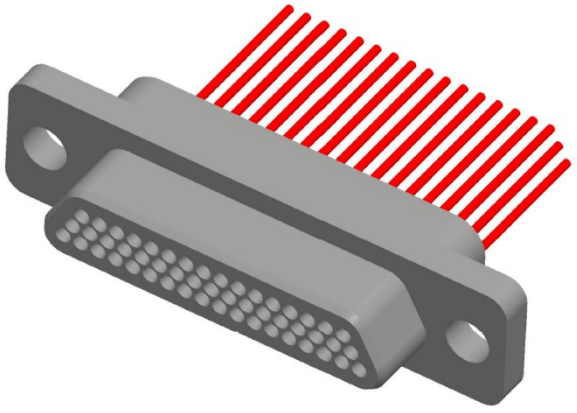
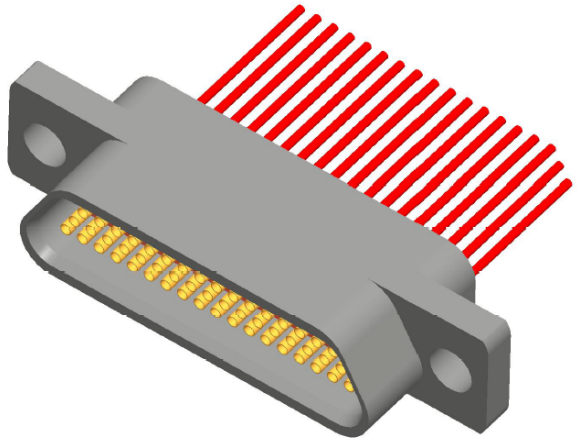
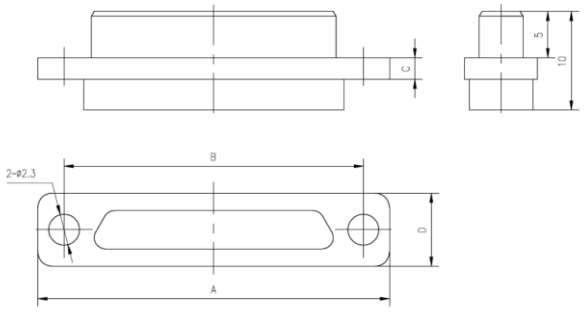
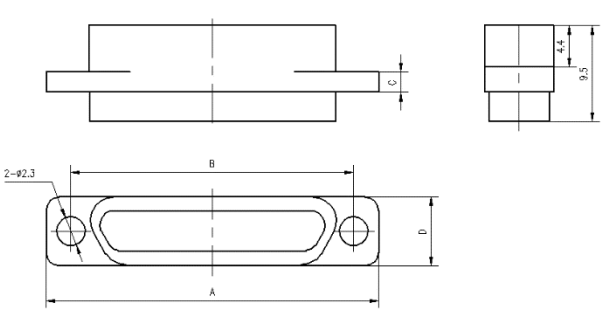
9 cores		15 cores	
21 cores		25 cores	
31 cores			
37 cores			
51 cores			

Classification of J30 Series Plug and Socket

Type of Plug and Socket	Basic Identification	Structural Features
Crimping type	Plug J30-TJ Socket J30-ZK	Plastic housing, wire crimping, straight outgoing
In-line PCB type	Plug J30-TJN Socket J30-ZKN	In-line PCB type; the PCB grid spacing is 2.54 × 1.6, and the lead length is 9.2
	Plug J30-TJN-J Socket J30-ZKN-J	In-line PCB type, with the grid spacing of PCB 1.27 × 2.54
	Plug J30-TJN1 Socket J30-ZKN1	In-line PCB type, with the grid spacing of PCB 2.54 × 2.54
	Plug J30-38TJN	In-line PCB type, with center screw locking
Bent PCB type	Plug J30-TJW Socket J30-ZKW	Bent PCB type, with the grid spacing of PCB 2.54 × 2.54
	Plug J30-TJW-J Socket J30-ZKW-J	Bent PCB type, with the grid spacing of PCB 1.27 × 2.54
	Socket J30-38ZKN	In-line PCB type and surface-mount, with center screw locking

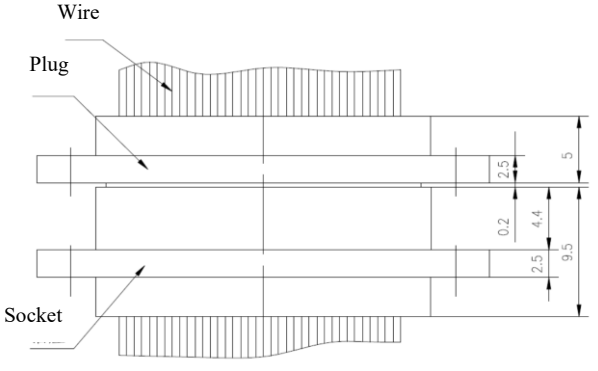
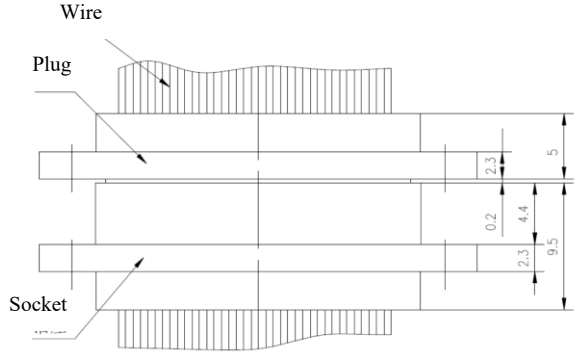
Overall and Installation Dimensions

J30 crimping basic type J30J-TJ/ZK

Plug: J30-9, 15, 21, 25, 31, 37, 51TJ	Socket: J30-9, 15, 21, 25, 31, 37, 51ZK
	
	

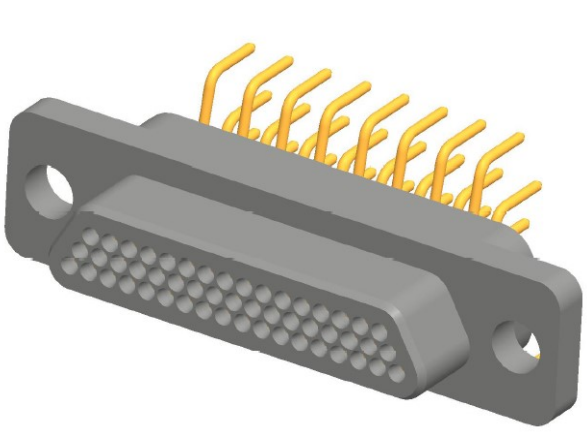
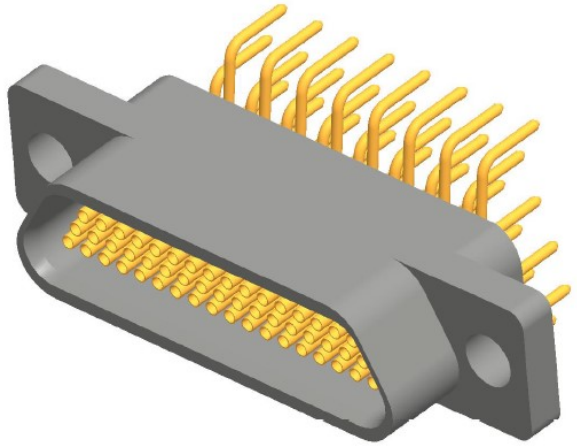
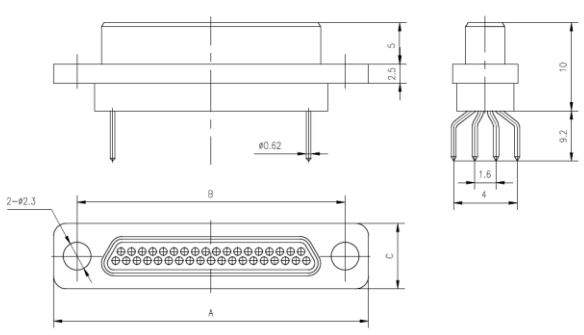
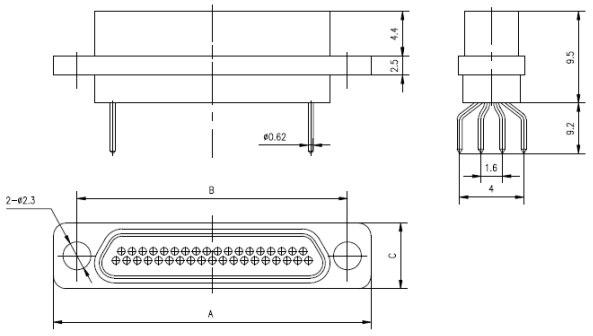
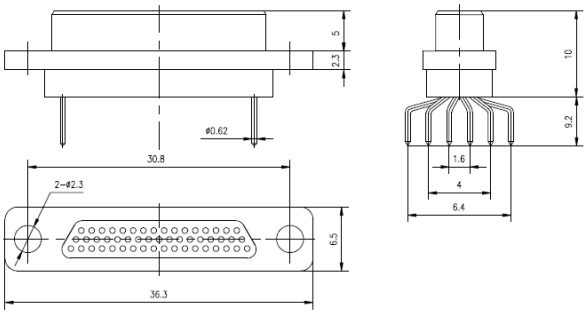
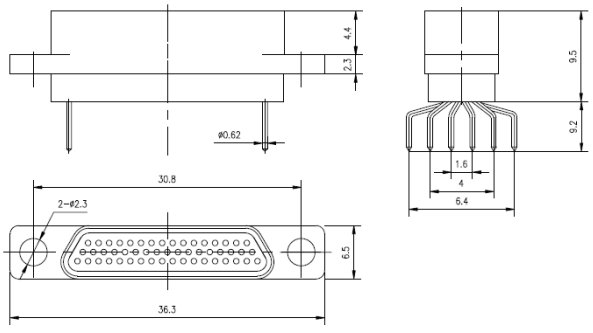
Number of cores	A	B	C	D
9	19.8	14.3	2.5	5.4
15	23.6	18.2	2.5	5.4
21	27.5	22	2.5	5.4
25	30	24.5	2.5	5.4
31	33.7	28.3	2.5	5.4
37	37.5	32.2	2.5	5.4
51	36.3	30.8	2.3	6.5

Outline drawing of product after butt joint

	
J30-9 ~ 37 cores	J30 - 51 cores

J30 In-line PCB N type

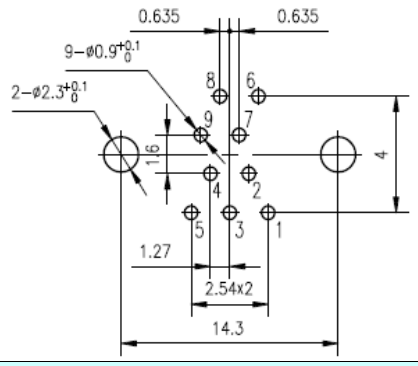
The connection between the tail end of the contact and the PCB is in-line type, and the spacing between adjacent columns is 2.54

Plug: J30-9, 15, 21, 25, 31, 37, 51TJN	Socket: J30-9, 15, 21, 25, 31, 37, 51ZKN
	
	
J30-9~37TJN	J30-9~37ZKN
	
J30-51TJN	J30-51ZKN

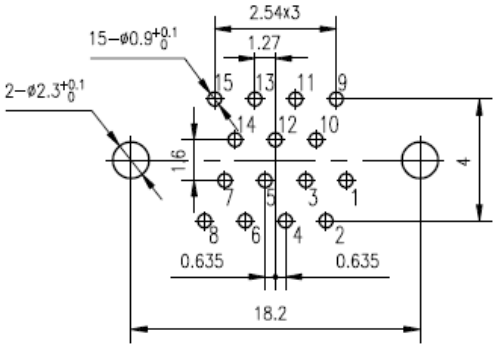
Number of cores	A	B	C
9	19.8	14.3	5.4
15	23.6	18.2	5.4
21	27.5	22	5.4
25	30	24.5	5.4
31	33.7	28.3	5.4
37	37.5	32.2	5.4

Hole size of J30 series in-line PCB plug: J30-XXTJN; viewed from the threading direction of PCB contact.

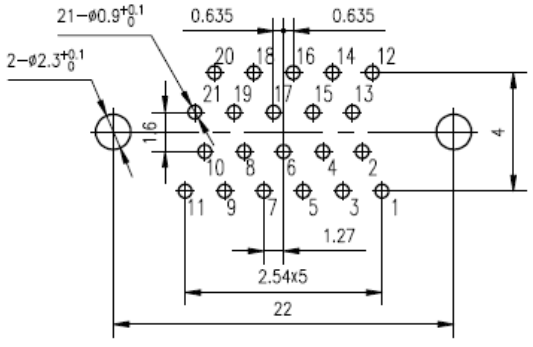
J30-9TJN



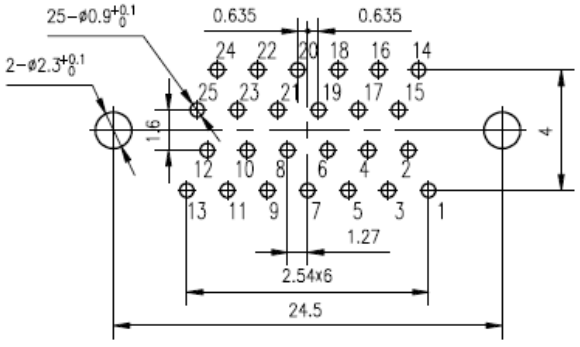
J30-15TJN



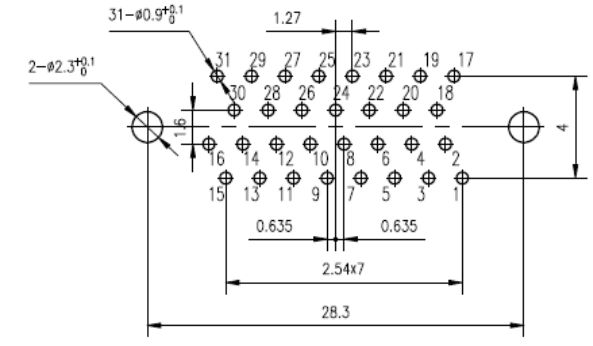
J30-21TJN



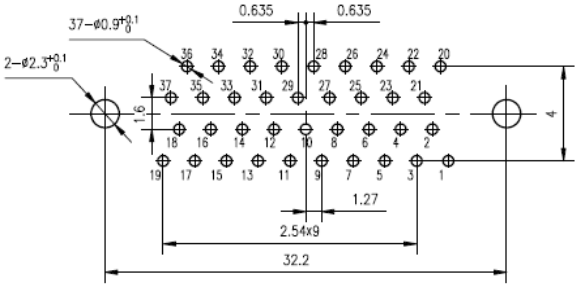
J30-25TJN



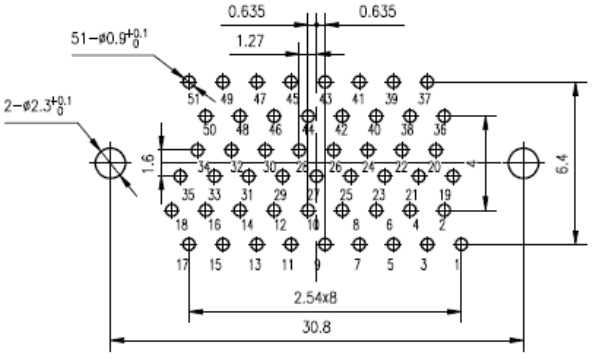
J30-31TJN



J30-37TJN

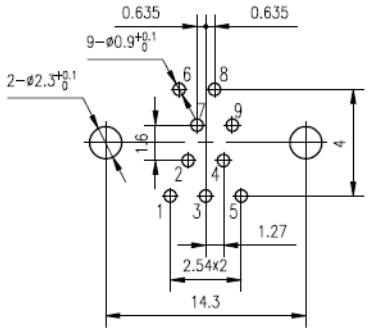


J30-51TJN

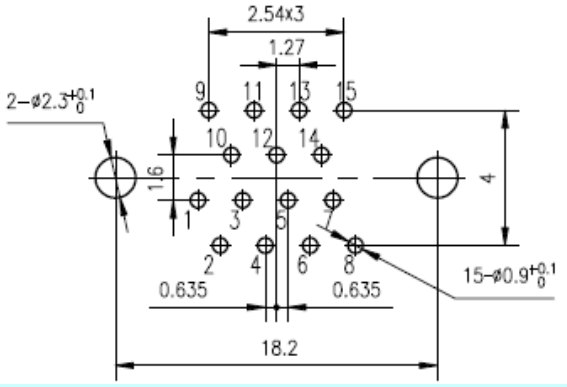


Hole size of J30 series in-line PCB socket: J30-XXZKN; viewed from the threading direction of PCB contact.

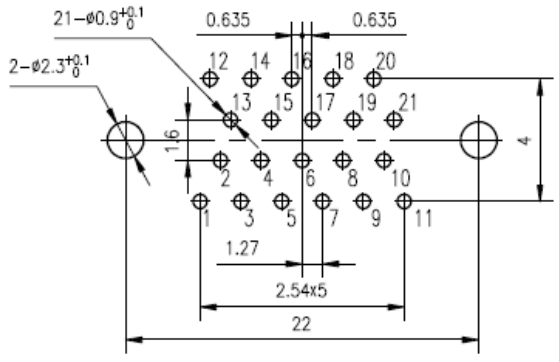
J30-9ZKN



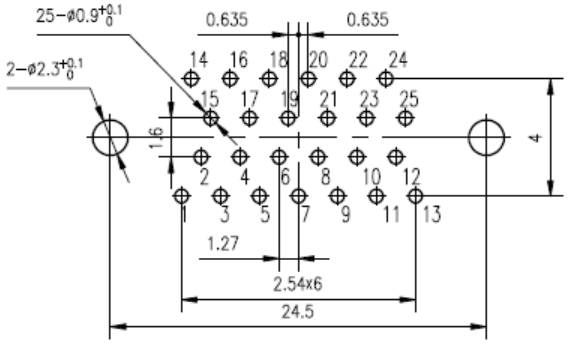
J30-15ZKN



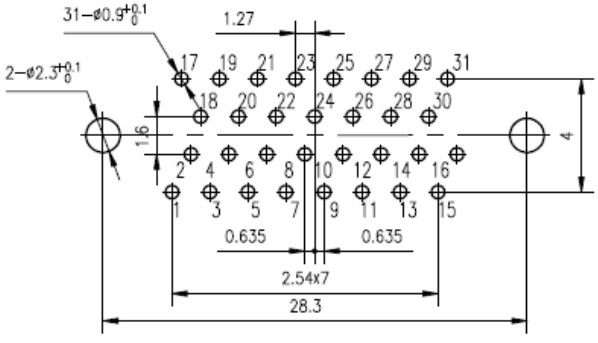
J30-21ZKN



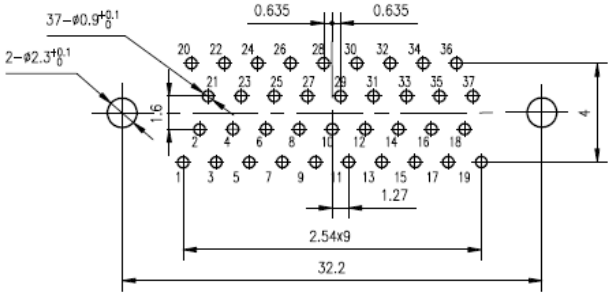
J30-25ZKN



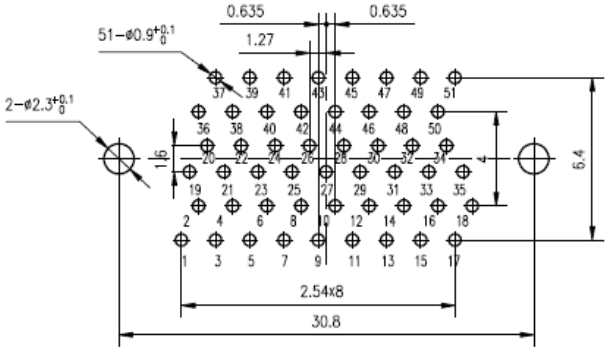
J30-31ZKN



J30-37ZKN



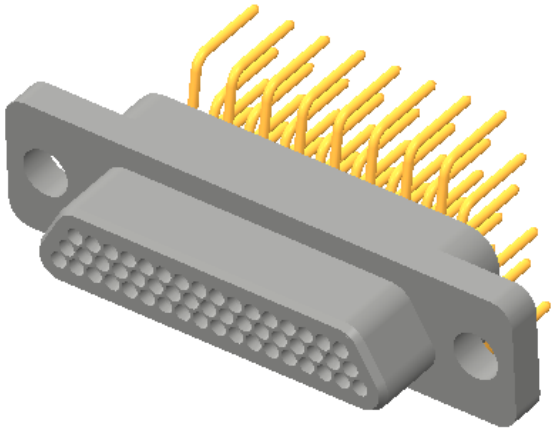
J30-51ZKN



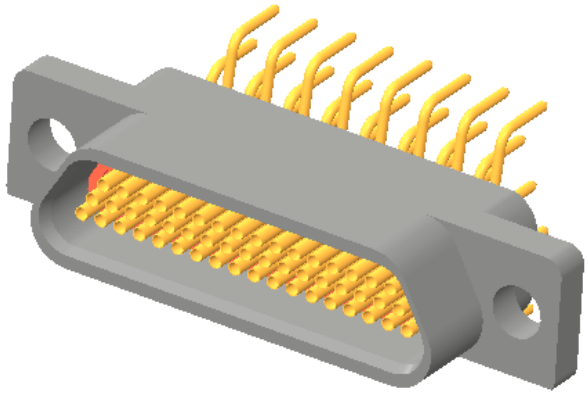
J30 In-line PCB N1 type

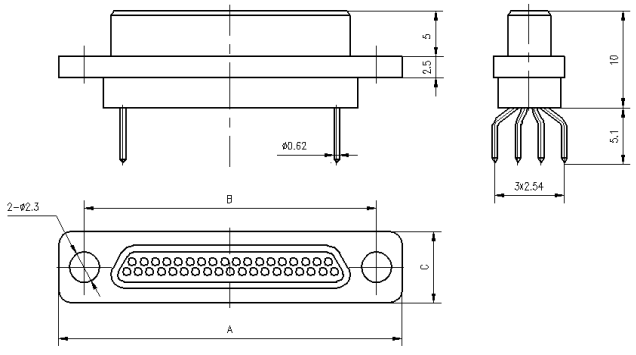
The connection between the tail end of the contact and the PCB is in-line type, and the spacing between adjacent columns is 2.54 × 2.54 (column × row)

Plug: J30-9, 15, 21, 25, 31, 37, 51TJN1

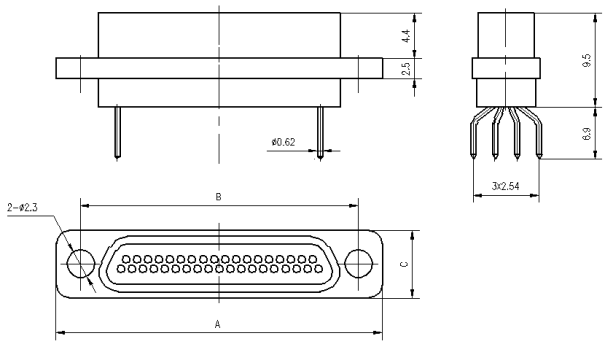


Socket: J30-9, 15, 21, 25, 31, 37, 51ZKN1

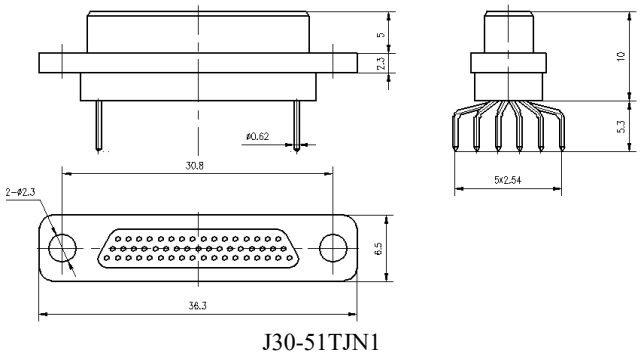




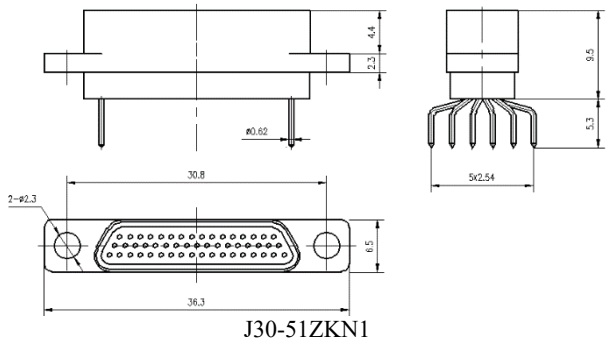
J30-9~37TJN1



J30-9~37ZKN1



J30-51TJN1

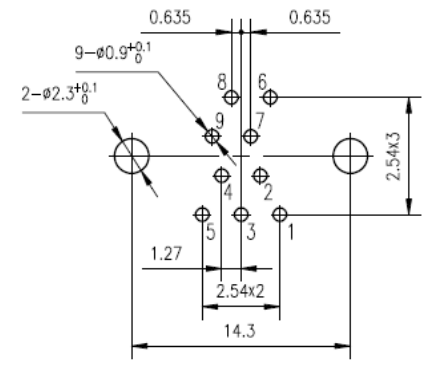


J30-51ZKN1

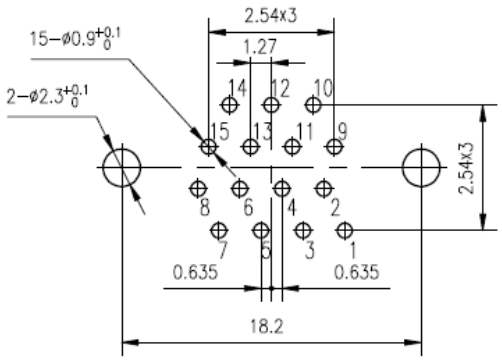
Number of cores	A	B	C
9	19.8	14.3	5.4
15	23.6	18.2	5.4
21	27.5	22	5.4
25	30	24.5	5.4
31	33.7	28.3	5.4
37	37.5	32.2	5.4

Hole size of J30 series in-line PCB plug: J30-XXTJN1 (grid spacing 2.54 × 2.54); viewed from the threading direction of PCB contact.

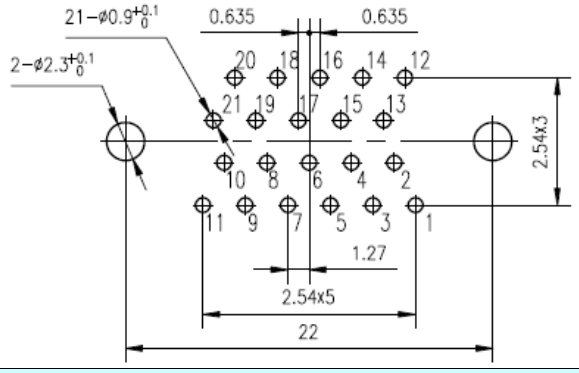
J30-9TJN1



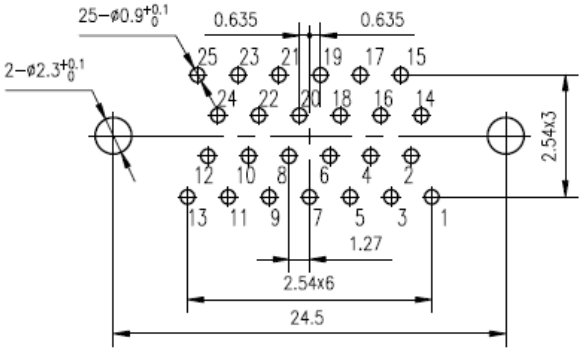
J30-15TJN1



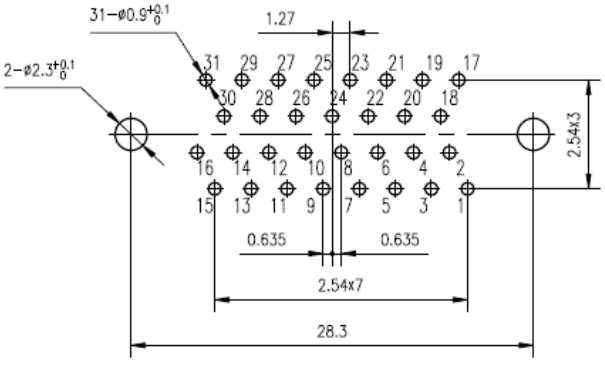
J30-21TJN1



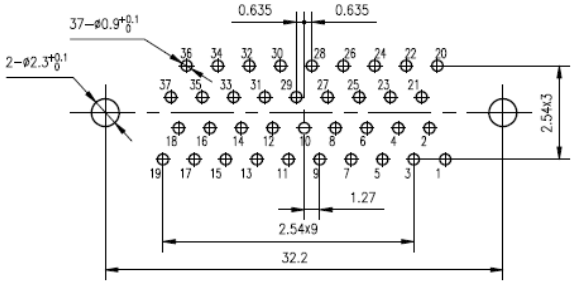
J30-25TJN1



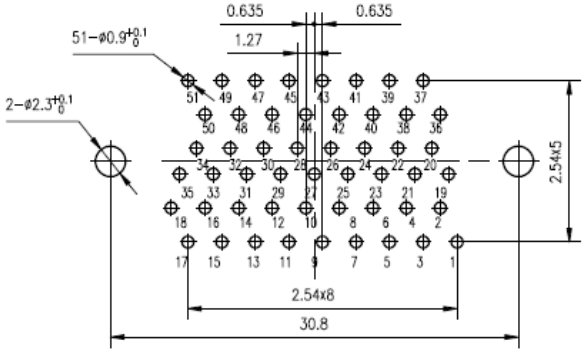
J30-31TJN1



J30-37TJN1

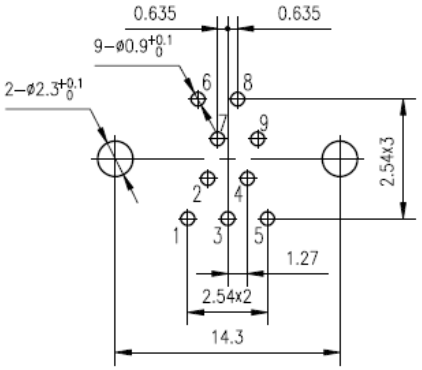


J30-51TJN1

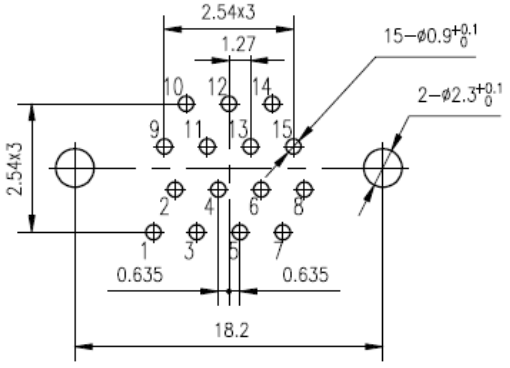


Hole size of J30 series in-line PCB socket: J30-XXZKN1 (grid spacing 2.54 × 2.54); viewed from the threading direction of PCB contact.

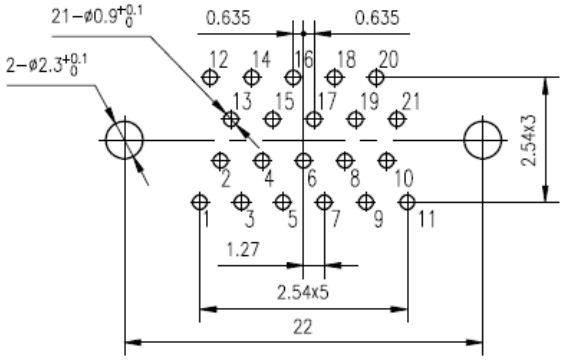
J30-9ZKN1



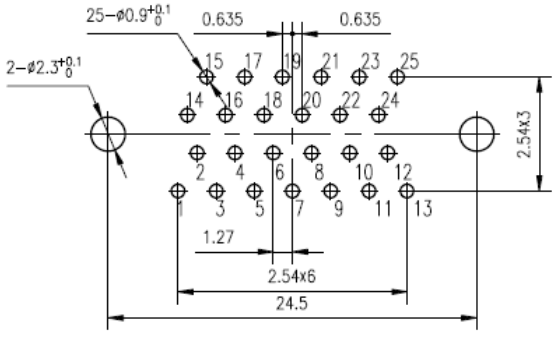
J30-15ZKN1



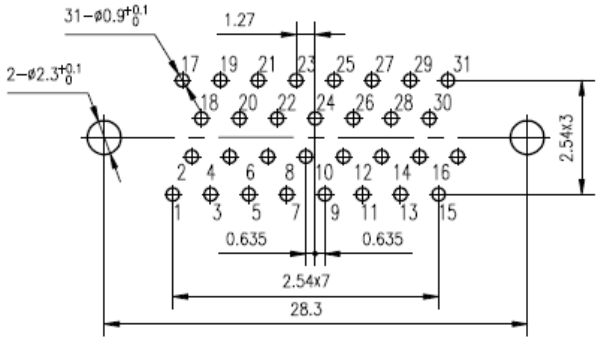
J30-21ZKN1



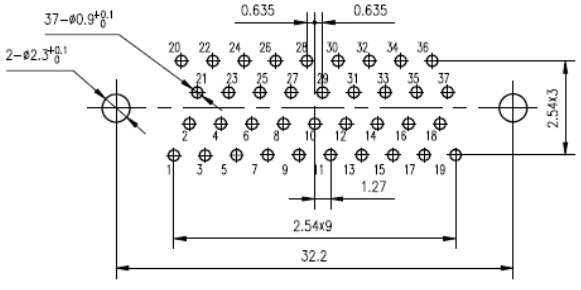
J30-25ZKN1



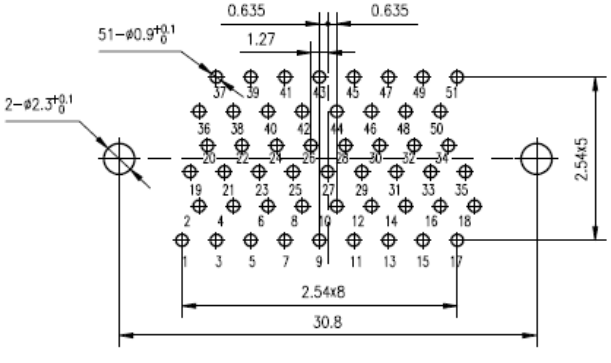
J30-31ZKN1



J30-37ZKN1

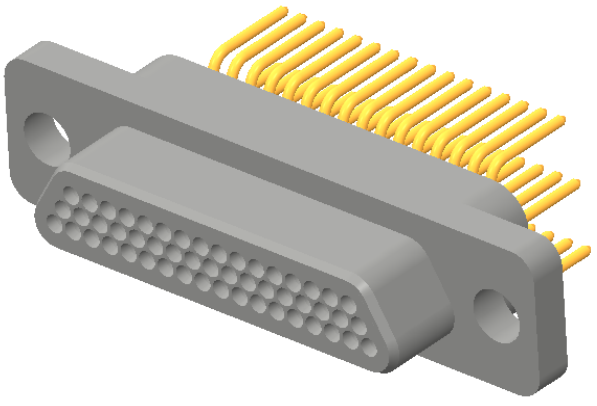
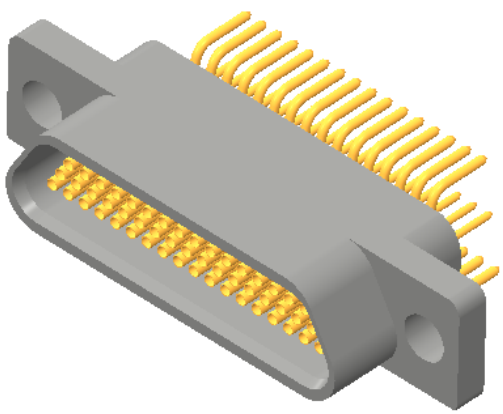
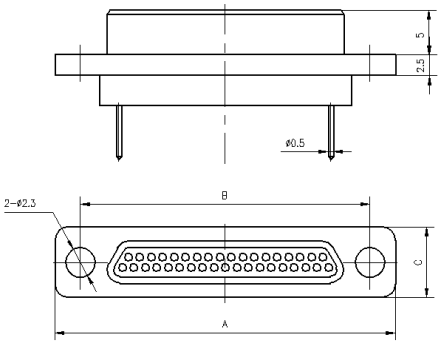
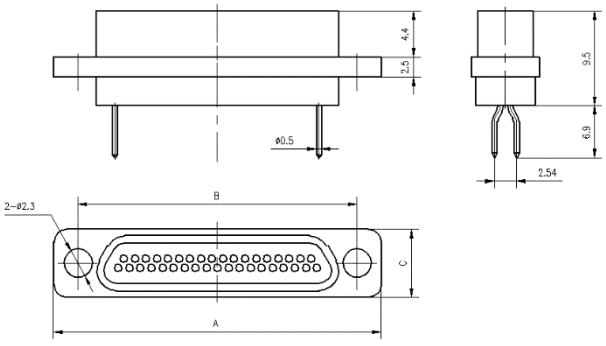
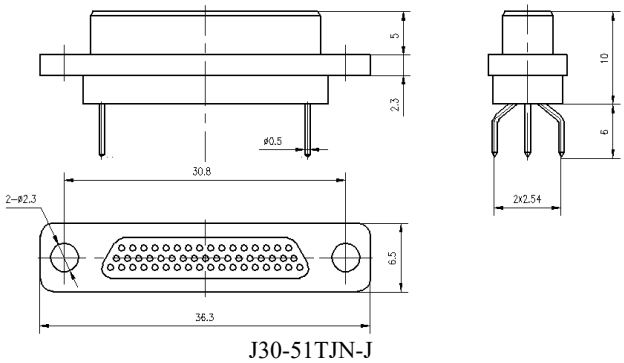
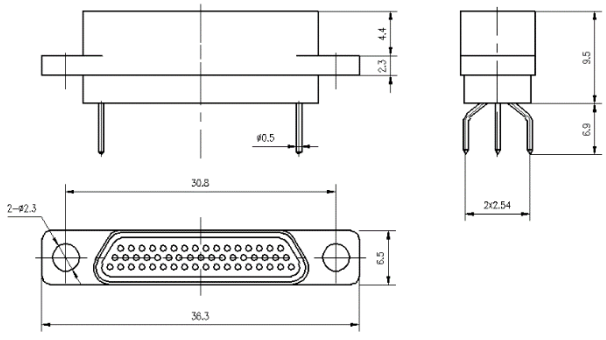


J30-51ZKN1



J30 In-line PCB N-J type

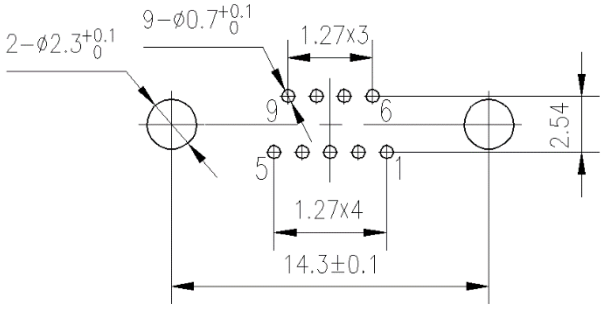
The connection between the tail end of the contact and the PCB is in-line type, and the spacing between adjacent columns is 1.27 × 2.54 (column × row)

Plug: J30-9, 15, 21, 25, 31, 37, 51TJN-J	Socket: J30-9, 15, 21, 25, 31, 37, 51ZKN-J
	
 J30-9~37TJN-J	 J30-9~37ZKN-J
 J30-51TJN-J	 J30-51ZKN-J

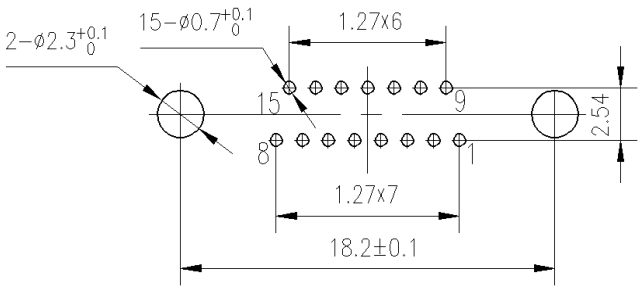
Number of cores	A	B	C
9	19.8	14.3	5.4
15	23.6	18.2	5.4
21	27.5	22	5.4
25	30	24.5	5.4
31	33.7	28.3	5.4
37	37.5	32.2	5.4

Hole size of J30 series in-line PCB plug: J30-XXTJN-J (grid spacing 2.54 × 2.54); viewed from the threading direction of PCB contact.

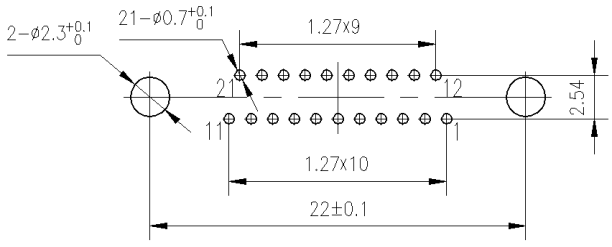
J30-9TJN-J



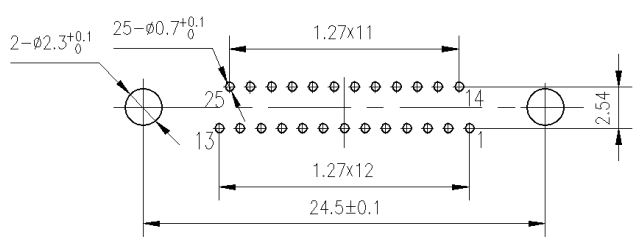
J30-15TJN-J



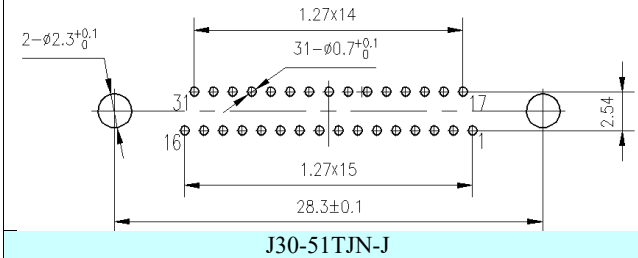
J30-21TJN-J



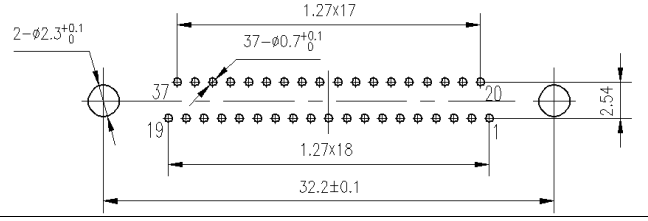
J30-25TJN-J



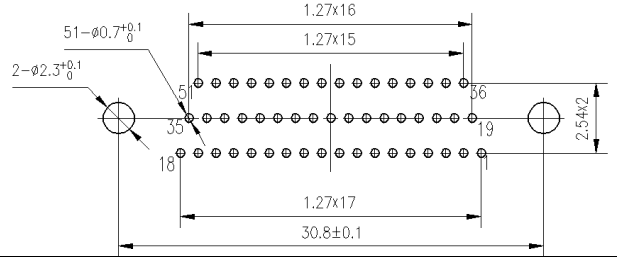
J30-31TJN-J



J30-37TJN-J

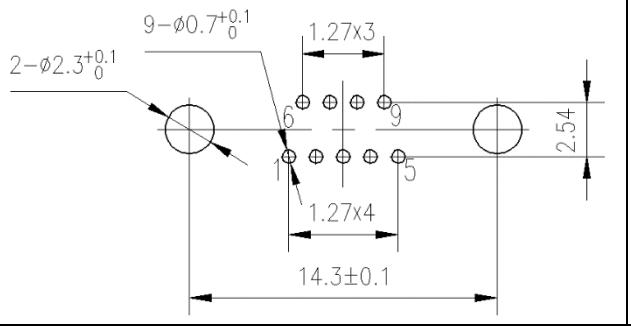


J30-51TJN-J

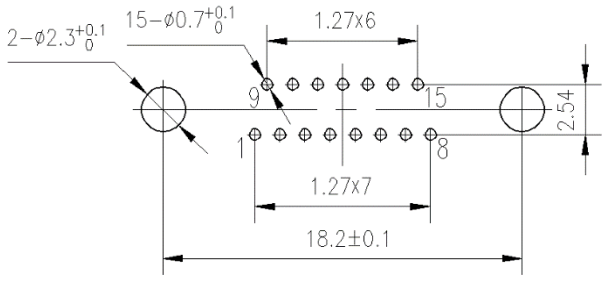


Hole size of J30 series in-line PCB socket: J30-XXZKN-J (grid spacing 1.27 × 2.54); viewed from the threading direction of PCB contact.

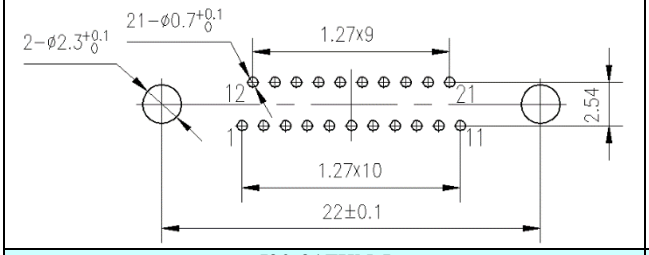
J30-9ZKN-J



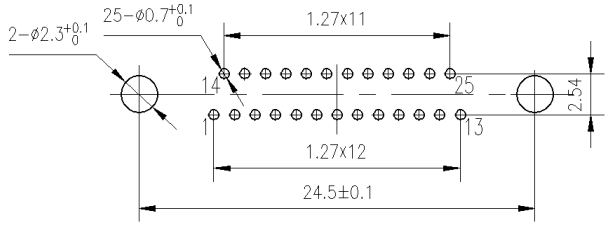
J30-15ZKN-J



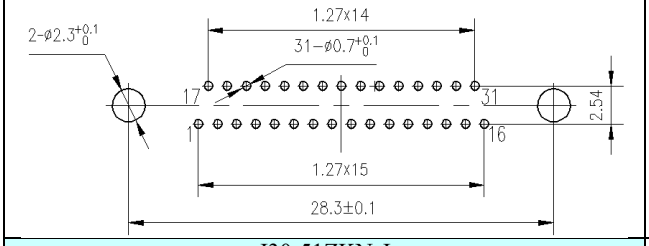
J30-21ZKN-J



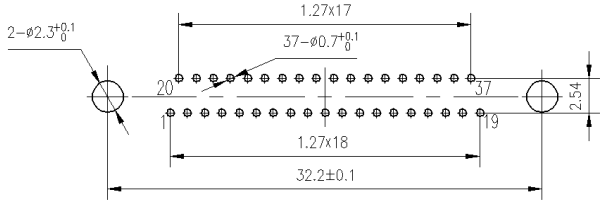
J30-25ZKN-J



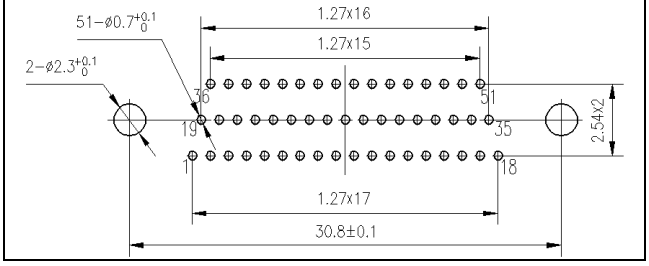
J30-31ZKN-J



J30-37ZKN-J

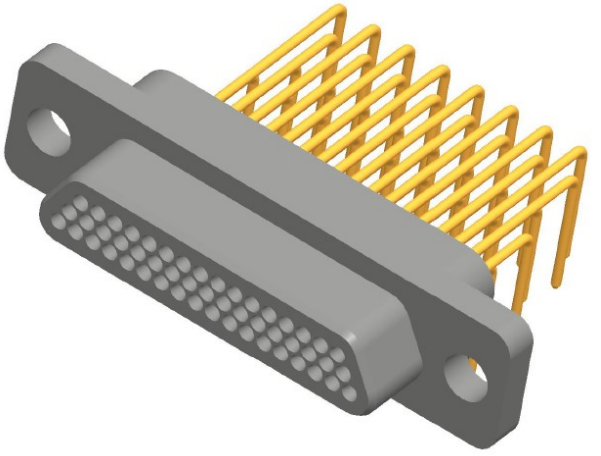
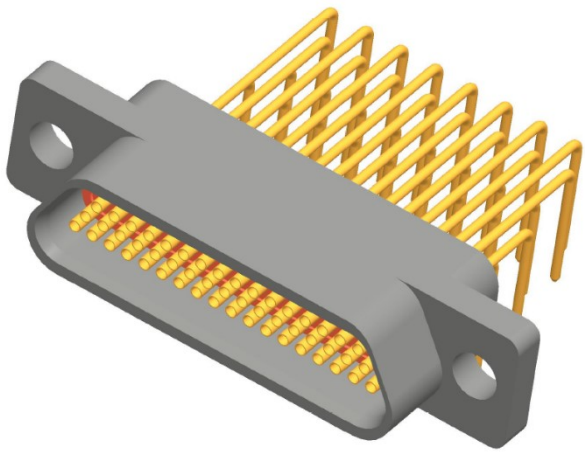
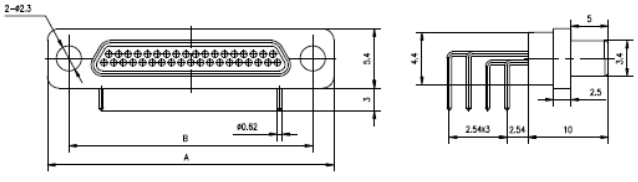
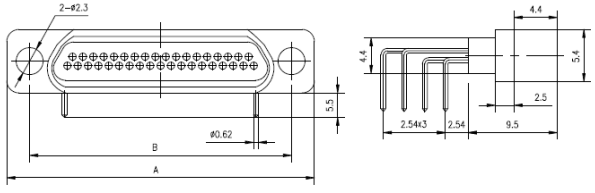
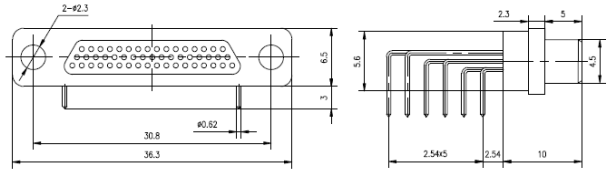
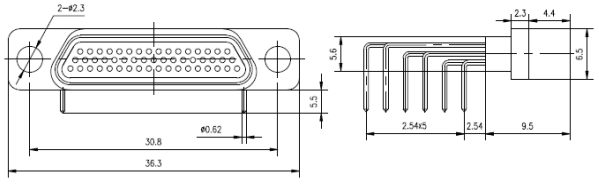


J30-51ZKN-J



J30 bent PCB W type

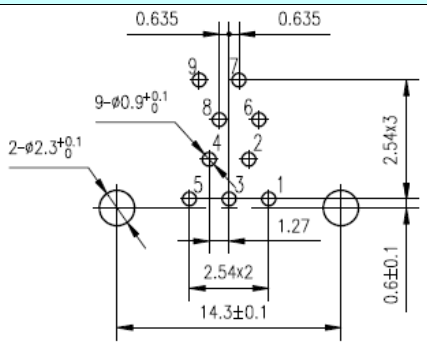
The connection between the tail end of the contact and the PCB is bent type, and the grid size is 2.54 × 2.54 (column × row).

Plug: J30-9, 15, 21, 25, 31, 37, 51TJW	Socket: J30-9, 15, 21, 25, 31, 37, 51ZKW
	
 J30-9~37TJW	 J30-9~37ZKW
 J30-51TJW	 J30-51ZKW

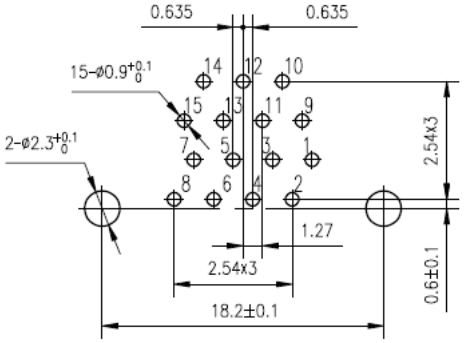
Number of cores	A	B
9	19.8	14.3
15	23.6	18.2
21	27.5	22.0
25	30.0	24.5
31	33.7	28.3
37	37.5	32.2

Hole size of J30 series bent PCB plug: J30-XXTJW (grid spacing 2.54 × 2.54); viewed from the threading direction of PCB contact.

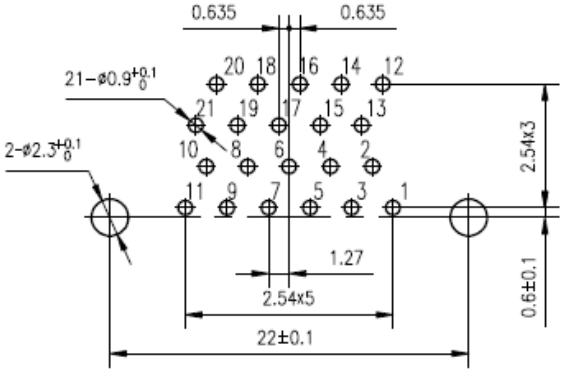
J30-9TJW



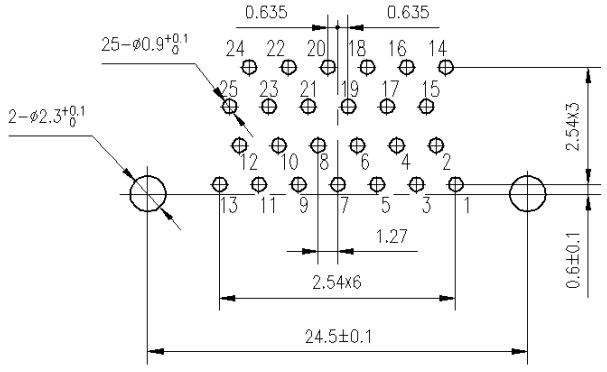
J30-15TJW



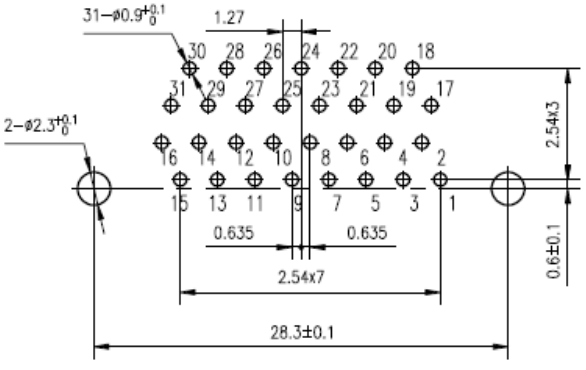
J30-21TJW



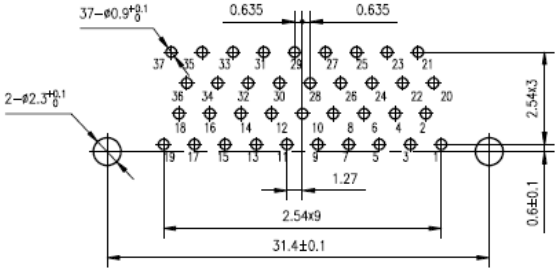
J30-25TJW



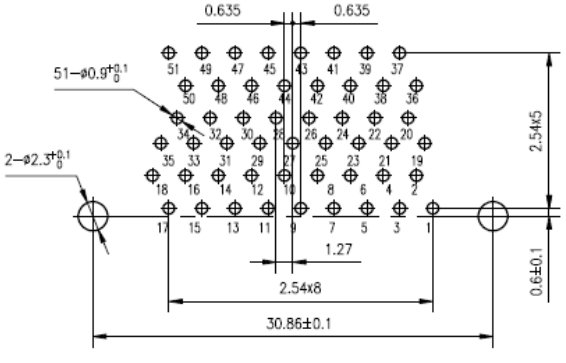
J30-31TJW



J30-37TJW

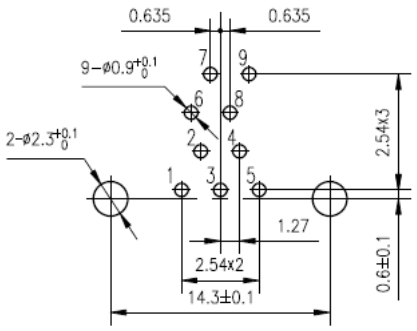


J30-51TJW

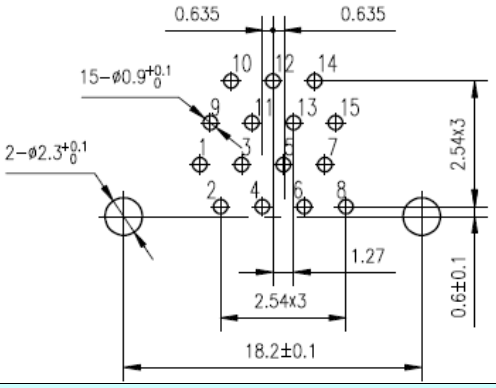


Hole size of J30 series bent PCB socket: J30-XXZKW (grid spacing 2.54 × 2.54); viewed from the threading direction of PCB contact.

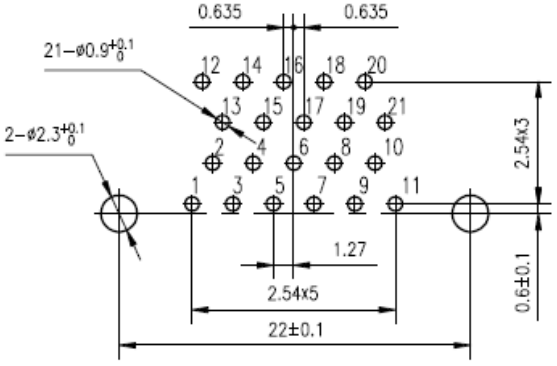
J30-9ZKW



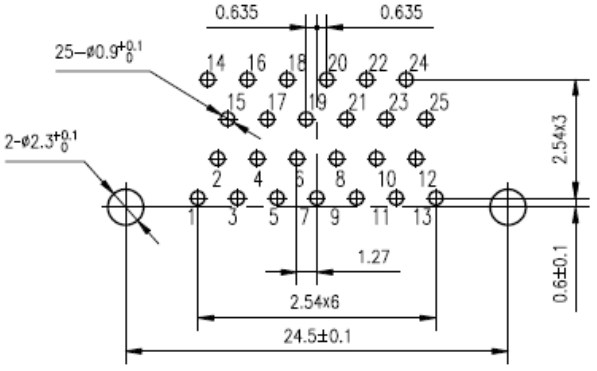
J30-15ZKW



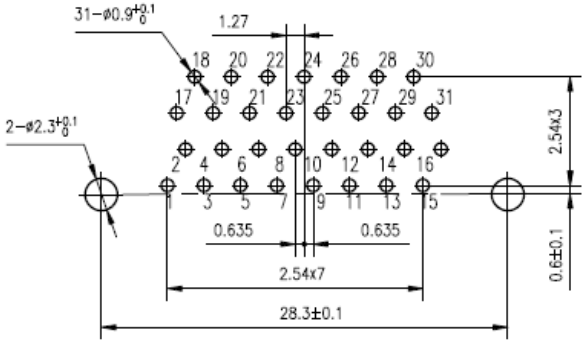
J30-21ZKW



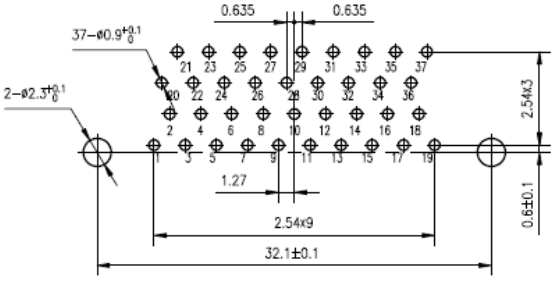
J30-25ZKW



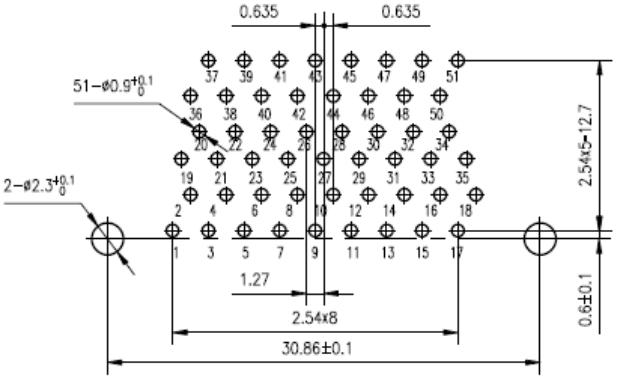
J30-31ZKW



J30-37ZKW

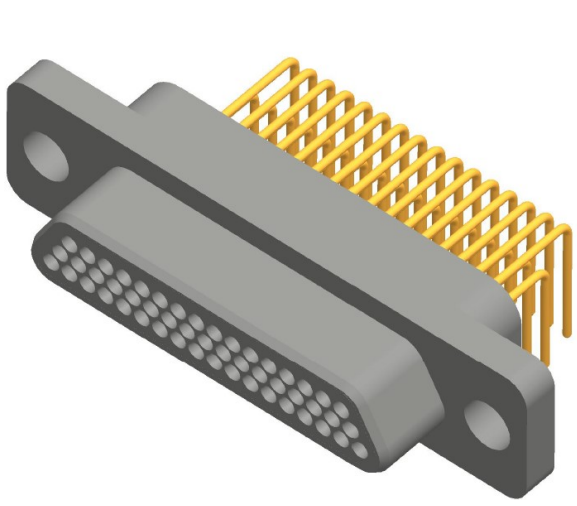
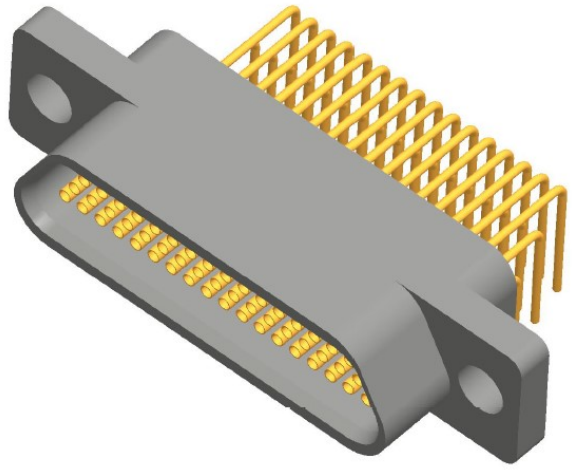
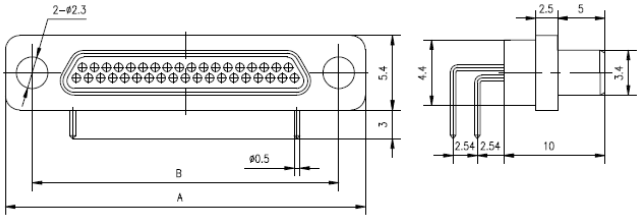
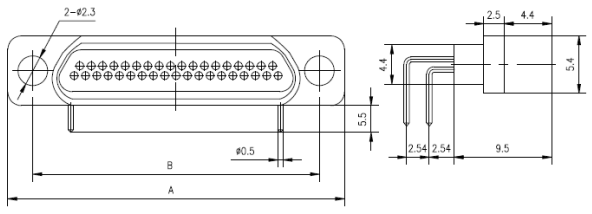
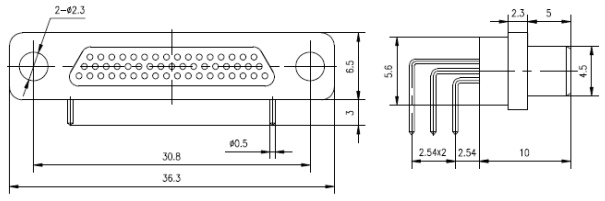
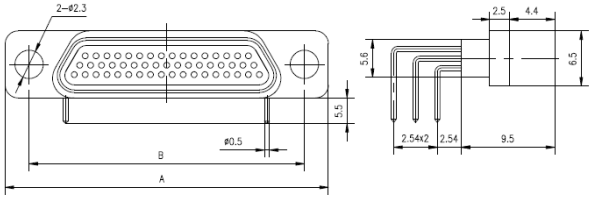


J30-51ZKW



J30 bent PCB W-J type

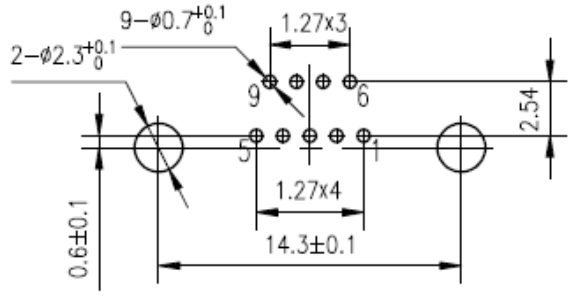
The connection between the tail end of the contact and the PCB is bent type, and the grid size is 1.27 × 2.54 (column × row).

Plug: J30-9, 15, 21, 25, 31, 37, 51TJW-J	Socket: J30-9, 15, 21, 25, 31, 37, 51ZKW-J
	
 J30-9~37TJW-J	 J30-9~37ZKW-J
 J30-51TJW-J	 J30-51ZKW-J

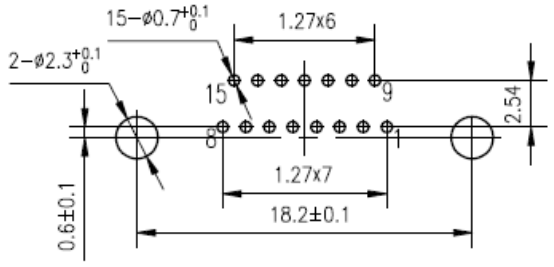
Number of cores	A	B
9	19.8	14.3
15	23.6	18.2
21	27.5	22.0
25	30.0	24.5
31	33.7	28.3
37	37.5	32.2

Hole size of J30 series bent PCB plug: J30-XXTJW (grid spacing 1.27 × 2.54); viewed from the threading direction of PCB contact.

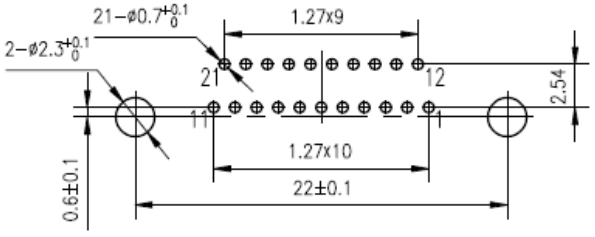
J30-9TJW-J



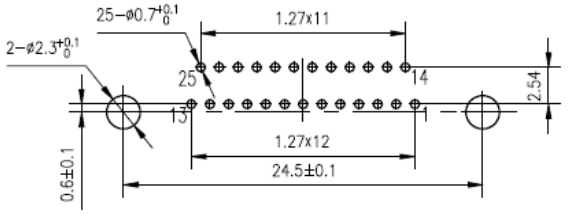
J30-15TJW-J



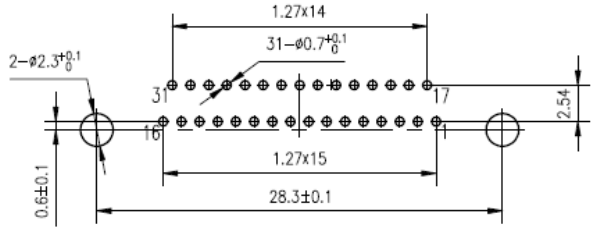
J30-21TJW-J



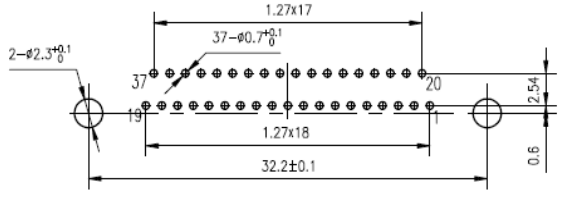
J30-25TJW-J



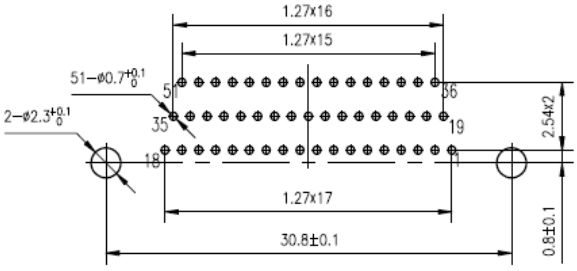
J30-31TJW-J



J30-37TJW-J

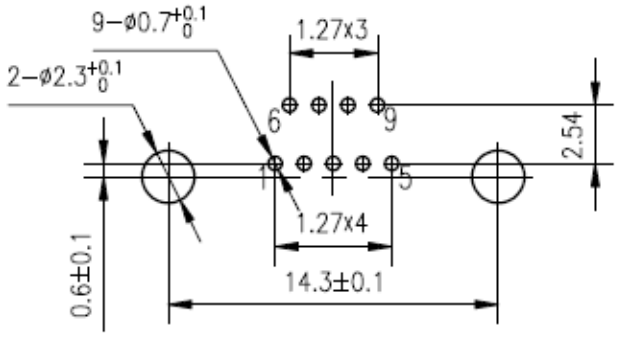


J30-51TJW-J

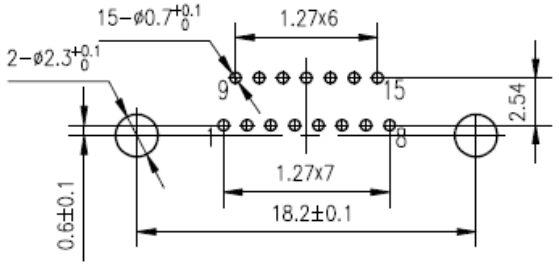


Hole size of J30 series bent PCB socket: J30-XXZKW (grid spacing 1.27 × 2.54); viewed from the threading direction of PCB contact.

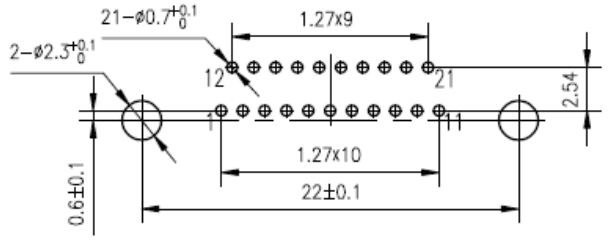
J30-9ZKW-J



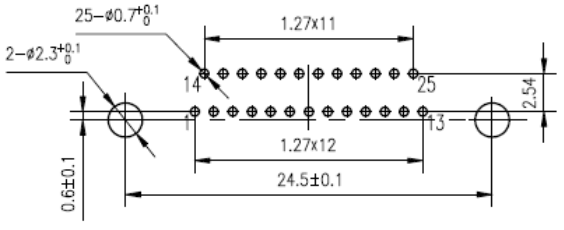
J30-15ZKW-J



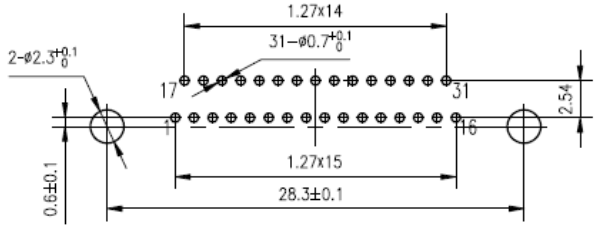
J30-21ZKW-J



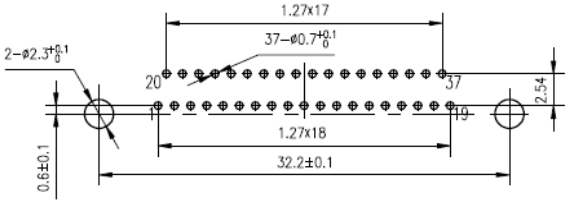
J30-25ZKW-J



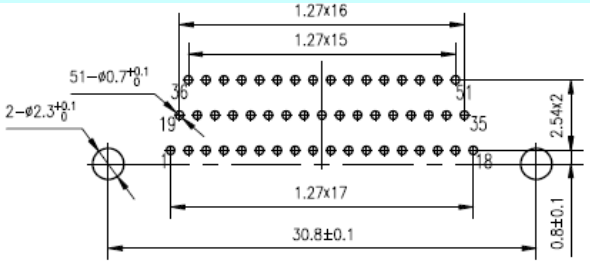
J30-31ZKW-J



J30-37ZKW-J

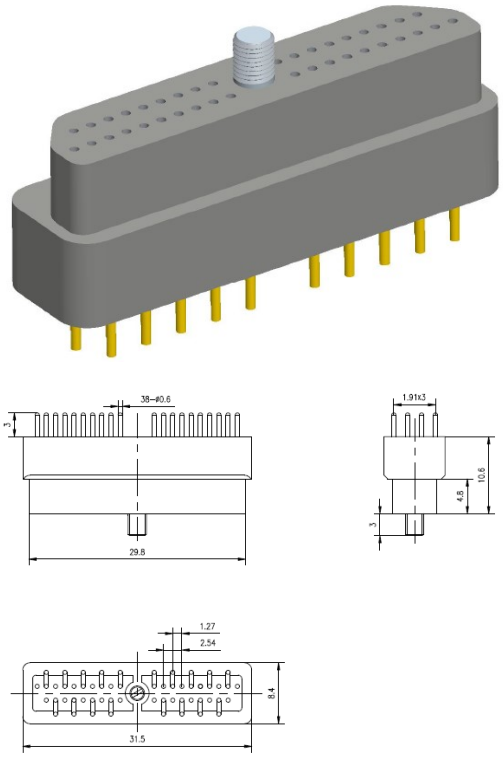
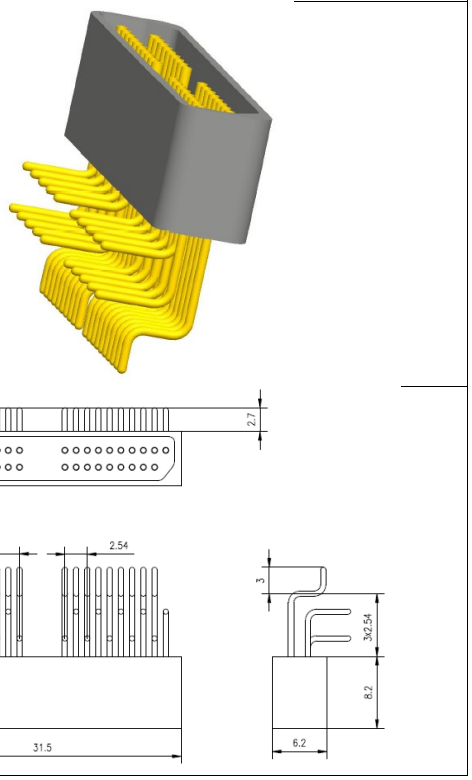


J30-51ZKW-J



J30-38TJN/ZKN

The product adopts the center screw for locking, mainly used for PCB connection. The product installation method is: the plug is used for in-line PCB installation, and the socket is used for bent PCB installation and surface-mount.

Plug: J30-38TJN	Socket: J30-38ZKN
	

J30 Accessories

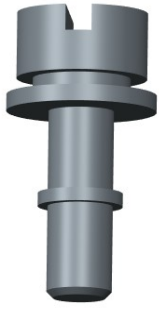
J30 accessories are available in various forms to meet the installation and locking of products. Users can order separately according to their needs.

J30 accessories are divided into two types according to different applications: locking assembly and mounting assembly.

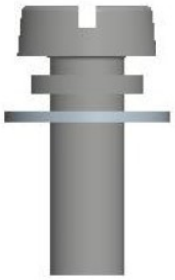
The locking assembly is generally used when reliable locking is required for product butt-joint. It is usually installed at the free end of the wire-throwing connector and can be used in the basic crimping series products.

The mounting assembly is used to fix the product and the mounting panel or PCB together. It is usually installed in the fixed end of the wire-throwing connector and the PCB-mounted series products.

L-type locking assembly

 Before installing into the product	 After installing into the product
Assembly used with L-type locking assembly	
Main characteristics of screw assembly	Matching coupling parts
	P1, P2, P3, P4 type mounting assembly

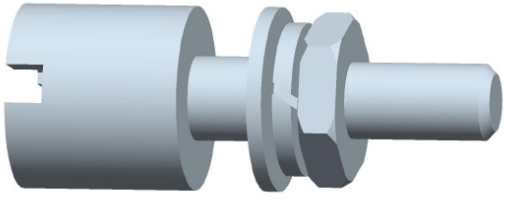
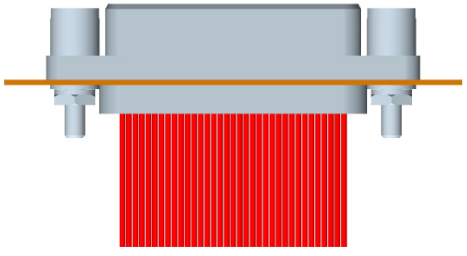
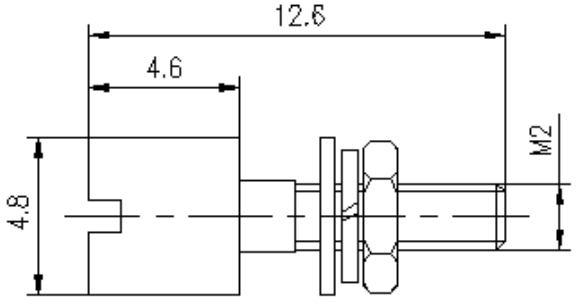
L1-type locking assembly

 Before installing into the product	 After installing into the product
Assembly used with L1-type locking assembly	
Main characteristics of screw assembly	Matching coupling parts
The locking screw assembly is composed of standard parts (screw specification M2 × 6).	P1, P2, P3, P4 type mounting assembly

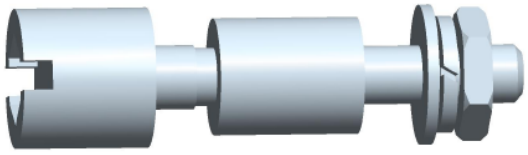
L2-type locking assembly

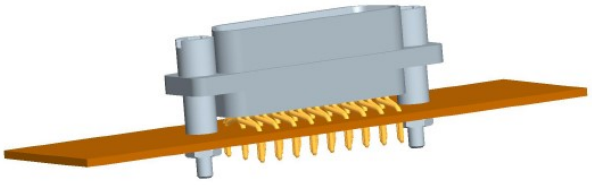
 Before installing into the product	 After installing into the product
Assembly used with L2-type locking assembly	
Main characteristics of screw assembly	Matching coupling parts
	P1, P2, P3, P4 type mounting assembly

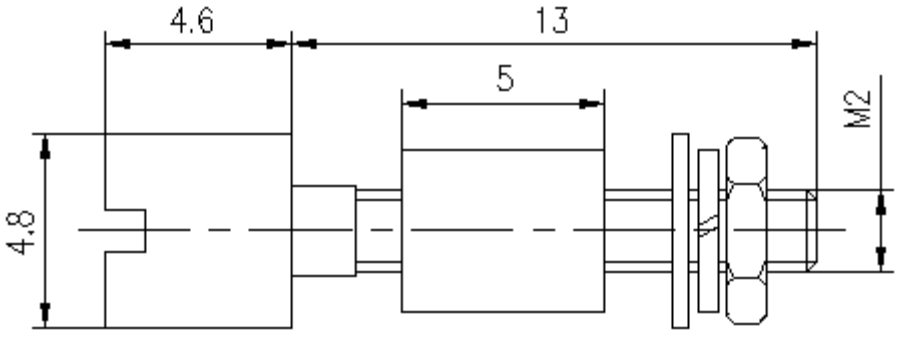
P1-type mounting assembly

  	
Main characteristics of screw assembly	Matching coupling parts
This assembly is applicable to products installed in front of the board	L, L1, L2-type locking assembly

P2-type mounting assembly

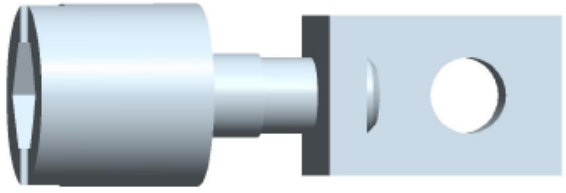


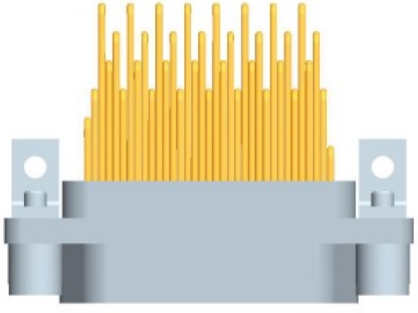


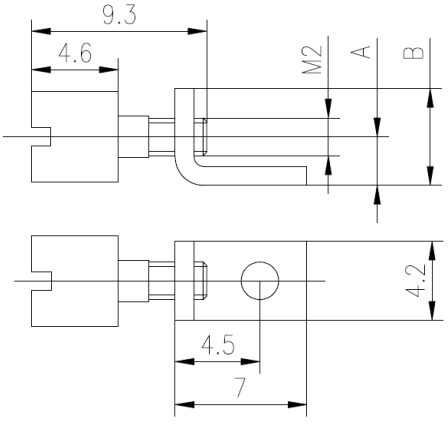


Main characteristics of screw assembly	Matching coupling parts
Applicable to the in-line PCB mounted products, with the plate thickness not more than 2.5mm	L, L1, L2-type locking assembly

P3-type mounting assembly



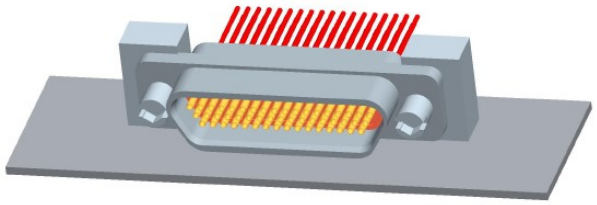


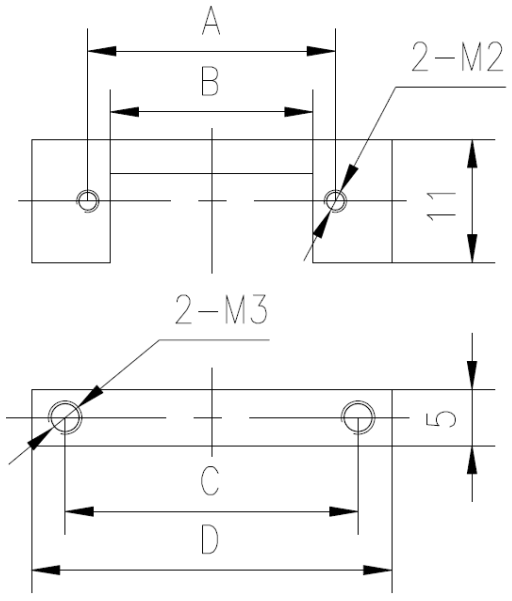


Number of cores	A	B
9	2.7	5.3
15	2.7	5.3
21	2.7	5.3
25	2.7	5.3
31	2.7	5.3
37	2.7	5.3
51	3.26	6.4

Main characteristics of screw assembly	Matching coupling parts
Suitable for J 30-9, 15, 21, 25, 31, 37, 51TJW/TJW-J/ZKW/ZKW-J	L, L1, L2-type locking assembly

P4-type fixed bracket locking assembly





Number of cores	A	B	C	D
9	14.3	10.5	20	25
15	18.2	14.5	24	29
21	22	18	26	32
25	24.5	21	29	35
31	28.3	24.5	34	39
37	32.2	28.5	38	43
51	30.8	27	37	42

Main characteristics of screw assembly
Suitable for J30-9, 15, 21, 25, 31, 37, 51TJ/ZK

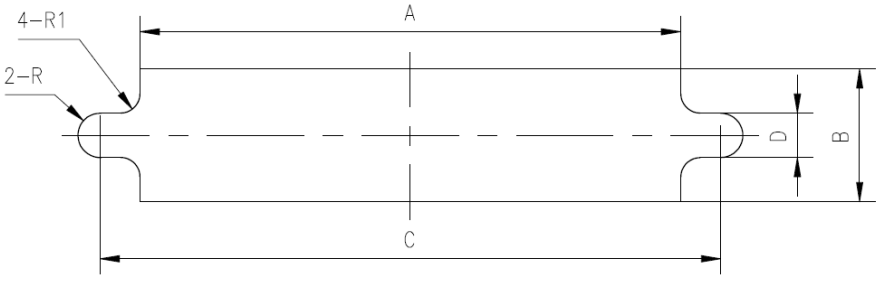
Matching coupling parts
L, L1, L2-type locking assembly

Note: The P1 mounting assembly is included in the above fixed bracket locking assembly, but it is not shown in the figure.

Mounting hole size of J30 series product

Hole size of J30 crimping series mounting plate installed in front of the board

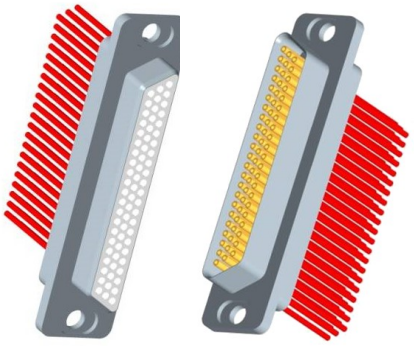
Hole size drawing of crimping series mounting plate installed in front of the board



Spectrum	A	B	C	D
9 cores	10.1	4.6	14.3	2.3
15 cores	14.2	4.6	18.2	2.3
21 cores	17.9	4.6	22	2.3
25 cores	20.8	4.6	24.5	2.3
31 cores	24.2	4.6	28.3	2.3
37 cores	28.2	4.6	32.2	2.3
51 cores	26.9	5.9	30.8	2.3

J29A Series Micro-rectangular Electrical Connector

Product Overview



- Number of cores: eight specifications of 9, 15, 21, 25, 31, 37, 51 and 66 cores
- Adopt stranded elastic pins (twist pins), with contact spacing of 1.905mm and row spacing of 1.65mm
- Cross-sectional area range of wire core: 0.15mm^2 ~ 0.3mm^2
- Plugs and sockets are divided into ordinary type (wide), -A type (narrow), -A1 type (width between ordinary type and -A type) and -A2 type (width between -A type and -A1 type) according to the width of the housing mounting plate, with three types of crimping, welding, in-line PCB and bent PCB and other termination forms
- Widely used in the circuit connection of aerospace, aviation, electronic computers and other electronic
- Execute enterprise standard: Q/Ag 1.275 Detailed Specification for J29A Series Micro-rectangular Electrical Connectors

Product Performance

Mechanical Properties

Housing	Aluminum alloy	Sinusoidal vibration	Frequency 10 ~ 2000 Hz, Acceleration 196 m/s^2
Plating	Nickel plating		
Insulator	Thermoplastic	Random vibration	Power spectral density 0.4g^2/Hz;
Contact	Gold-plated copper alloy		Total acceleration RMS 23.1G
Mechanical life	500 plugging and unplugging cycles	Impact	1200m/s^2, 6ms

Electrical Performance

Contact rated current	5A; Contact resistance ≤ 10 mΩ	Magnetic permeability	Not more than 2.0
Withstand voltage (under normal conditions)	DC 1500V	Insulation resistance	(under normal conditions) ≥ 5000 MΩ

Environmental Performance

Temperature range	-55 ℃ ~ +125 ℃	Relative humidity	40 ± 2 ℃, relative humidity 90% ~ 95%, 96h;
Salt spray	48h	Working air pressure	101.33KPa ~ 4.39KPa

Model Designation

Code of main designation	J29	A	-	9	TJ	H	L	-	A	D	(Additional Information)
Series variant	A - Basic type M - Glue-sealed type										
Number of contacts	9, 15, 21, 25, 31, 37, 51, 66										
Contact type	TJ – plug installed with the pin, ZK – socket installed with the Jack (TJ and ZK are fixed collocation)										
Form of contact tail end	Unmarked - Crimping, H - Welding, N - In-line PCB W - Bent PCB (1.905 × 2.54 grid) WI - Bent PCB (3.82 × 2.54)										
Locking assembly type	See "J29A Locking Assembly" for details. Note: P3, P4, P6, P13 and P15 locking assemblies are specially used for J29A-XXTJW/ZKW/TJWI/ZKWI products; P5 type parts are specially used for sealing products.										
Housing Type	Unmarked - Normal type (flat counterbore at the butt end of the housing flange) A - The width of housing flange is the same as the tail end A1 - The width of the housing flange is between the ordinary type and type A A2 - The width of the housing flange is between type A and type A1										
Type off tail cover	D, D1, D2, D3										
Additional Information	Wire requirements: See Table 1, for crimping type products only										

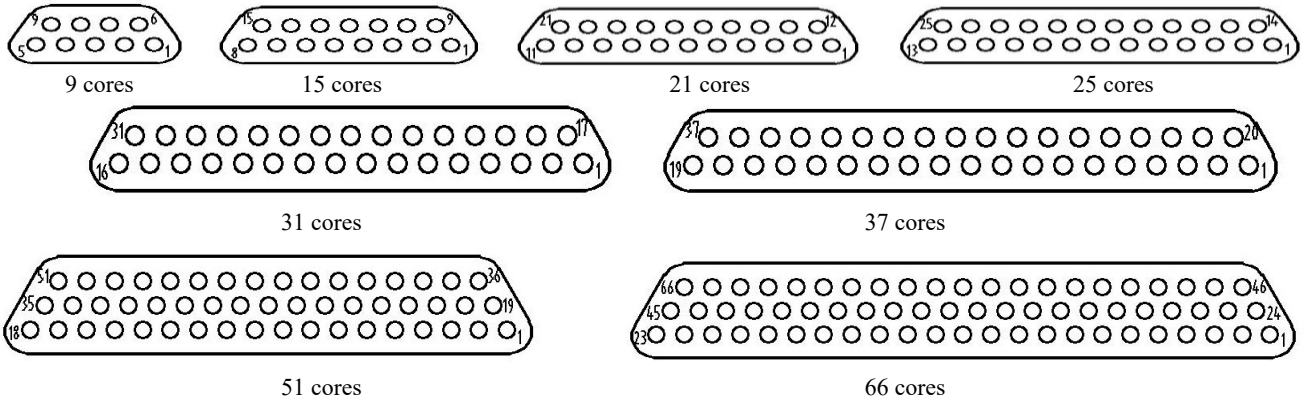
Table 1

No.	Mark code	Contact tail form	Mark code
1	Wire color	R: red; W: white; M: purple; G: green; A: gray; U: blue; Y: yellow; B: black; N: orange;	R, W, M, G, A, U, Y, B, N
2	L	Connector with wires	L
3	Wire length	1000: wire length value in mm	1000
4	Wire specification	A: 0.3mm^2 AFR-250 B: 0.2mm^2 AFR-250 C: 0.15mm^2 AFR-250, etc.	A, B, C etc.
5	Additional requirements	No indication: no additional requirements 1: Wire jacket nylon sleeve 2: Wire jacket anti-wave sleeve, etc.	1, 2, etc.

Model example: J29A-25ZKL4-A1D2 (WL200A1)

The above marks indicate that the number of contacts is 25, the socket is installed with the Jack, and the end of the contact is crimped, with A1-type housing, L4-type free-end locking assembly and D2-type tail cover; the specification of the wire is AFR-250, the cross-sectional area of the wire core is 0.3 mm^2, the length is 200 mm, and the color is white; the whole wire harness is covered with a nylon sleeve.

J29A Series Spectrum Arrangement (View of Pin-mounted Insulator Insertion Surface)



Note: The positions of the above contacts are arranged as viewed from the butt end of the plug, and the socket is opposite to it

Classification of J29A Series Plug and Socket

Type of Plug and Socket	Basic Identification	Structural Features
Crimping type	Plug J29A-TJ Socket J29A-ZK	Metal housing, electroless nickel plating, wire crimping, straight outgoing
	Plug J29A-TJ-A Socket J29A-ZK-A	Compared with J29A-TJ/ZK, the width of the housing flange is equal to that of the tail end
	Plug J29A-TJ-A1 Socket J29A-ZK-A1	Compared with J29A-TJ/ZK, the width of the housing flange is reduced to the corresponding size
Welding type	Plug J29A-TJH Socket J29A-ZKH	Compared with J29A-TJ/ZK, the contact termination is welding cup type
	Plug J29A-TJH-A Socket J29A-ZKH-A	Compared with J29A-TJ/ZKH, the width of the housing flange is equal to that of the tail end
	Plug J29A-TJH-A1 Socket J29A-ZKH-A1	Compared with J29A-TJ/ZKH, the width of the housing flange is reduced to the corresponding size
	Plug J29A-TJH-A2 Socket J29A-ZKH-A2	Compared with J29A-TJ/ZKH, the width of the housing flange is reduced to the corresponding size
In-line PCB type	Plug J29A-TJN Socket J29A-ZKN	In-line PCB type, with the grid spacing of PCB 1.91 × 1.65
Bent PCB type	Plug J29A-TJW Socket J29A-ZKW	Bent PCB type, with the grid spacing of PCB 1.91 × 2.54
	Plug J29A-TJW-A Socket J29A-ZKW-A	Compared with J29A-TJ/ZKW, the width of the housing flange is equal to that of the tail end
	Plug J29A-TJWI Socket J29A-ZKWI	Bent PCB type, with the grid spacing of PCB 3.82 × 2.54
	Plug J29A-TJWI-A Socket J29A-ZKWI-A	Compared with J29A-TJ/ZKW, the width of the housing flange is equal to that of the tail end
Glue-sealed type	Socket J29M-ZK Plug J29M-TJ	The potting height at the tail end is increased, and the leakage rate of helium mass spectrum detection is $\leq 1 \times 10^{-1}$ Pa.cm^3 /s (1 atmospheric pressure difference; the insertion end is the high pressure end);
	Socket J29M-ZKH Plug J29M-TJH	Compared with J29M-TJ/ZK, the contact termination is welding cup type

Instructions for Product Selection

J29A series products are in-line micro-rectangular electrical connectors with trapezoidal housing positioning, and the contacts are flexible pin and rigid Jack structure. The products are available in various forms such as crimping type, welding type and PCB type, which can be used together. Any type of plug and socket with the same number of cores can be used together.

When J29A product is selected, the plug assembly, socket assembly, tail cover and locking assembly shall be selected at the same time, so that the plug or socket with locking function can be selected. The tail cover is not necessary. The tail cover includes D type, D1 type, D2 type and D3 type. The D type tail cover is of a two-petal structure, including a built-in clamping plate, and the overall dimension exceeds the flange width; D1 type tail cover is applicable to ordinary crimping series products. D1 type tail cover is of a two-petal structure and does not include clamping plate. D2 type tail cover is applicable to -A1 crimping and welding series products. D2 type tail cover has a two-petal structure and includes a built-in clamping plate. D3 type tail cover is a two-petal snap-fit clamp assembly with the same overall dimensions as the flange width. it can be selected as required.

In addition, since not all plug and socket assemblies, locking assemblies and tail covers can be combined and matched arbitrarily, the following items should be known when selecting J29A products:

1. The plug and socket assemblies equipped with the tail cover should not be equipped with the locking assembly installed in front of the board (that is, the mounting screw is suitable for the locking assembly installed in front of the board), because the existence of the tail cover will make the mounting plate unable to be installed; if the plug and socket assemblies equipped with the tail cover are to be equipped with the locking assembly installed behind the board, the thickness of the mounting plate must be considered as “mounting plate + 0.7”;
2. When selecting the crimping connector, it is necessary to determine the color and length of the wire, whether the wire harness needs to be shielded, and whether the nylon sleeve is needed. If the user has other special requirements for the wire brand and wiring mode of the product, he should confirm with the company's technicians and confirm the product model before ordering.
3. If most of the holes of the product need to be connected with wires with thicker outer diameter, it should be considered whether the glue-filling cavity and clamp assembly of the product have enough accommodation space, and the conclusion can only be drawn after trial assembly.
4. For the treatment of empty points in the product, if there is no technical agreement or no consensus has been reached before, the empty points shall be blocked with jacks or pins that are not crimped with wires.

Operation Precautions

The specific operation process of the product: install the connector on the panel with the mounting screws, and then insert the plug and socket in place and screw the two locking screws into the corresponding locking screw holes to complete the connection.

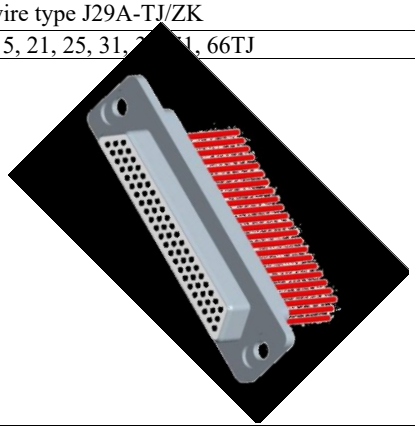
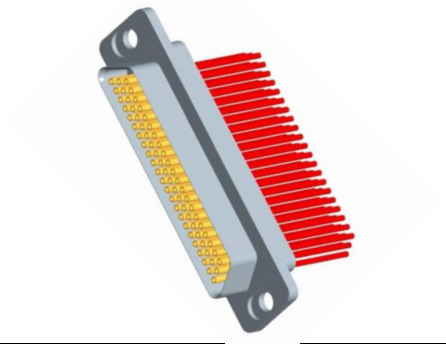
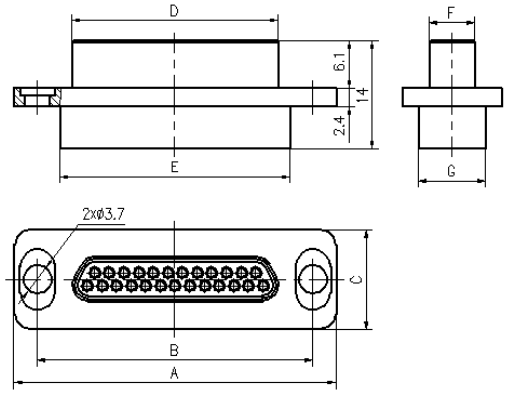
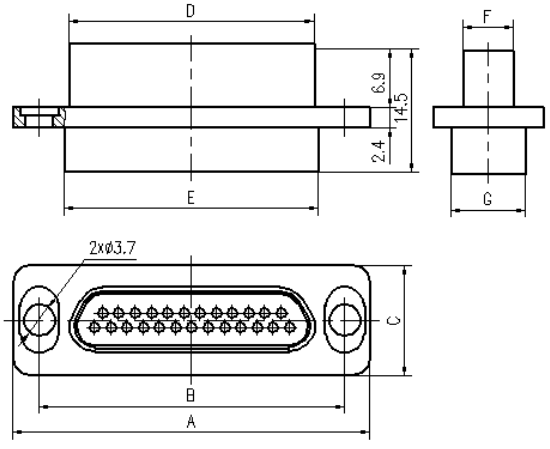
The product is strictly prohibited to contact with acid, alkali and other polar solvents during transportation, storage and use.

When the product is not connected for a long time, it is necessary to cover the dust cover.

The welding temperature shall be no more than 280 ℃ and the welding time shall be no more than 3s when wire welding is performed on the welded product.

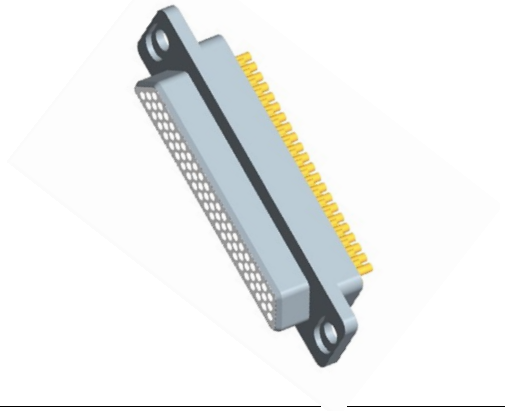
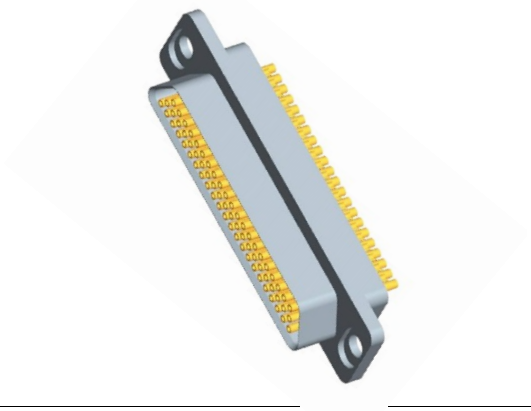
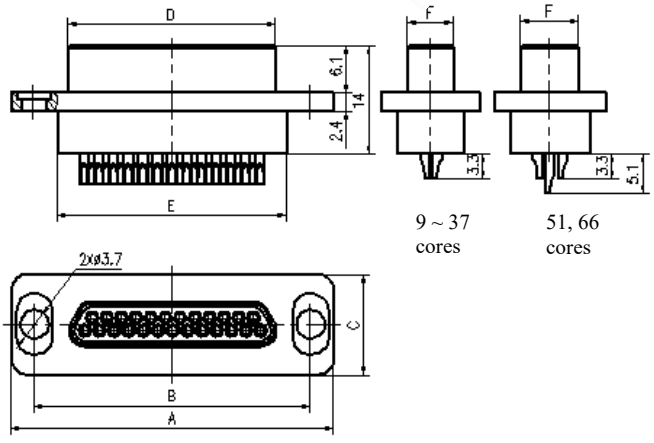
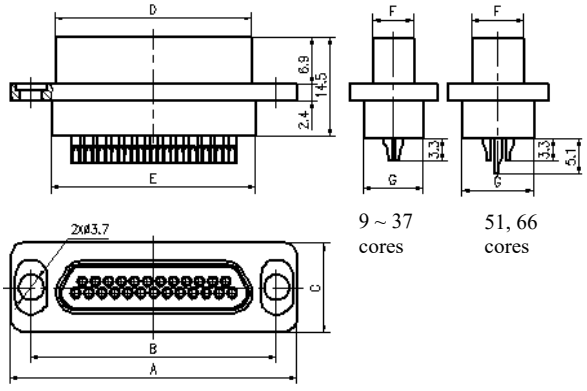
Overall and Installation Dimensions

J29A crimping wire type J29A-TJ/ZK

Plug: J29A-9, 15, 21, 25, 31, [illegible], 66TJ	Socket: J29A-9, 15, 21, 25, 31, 37, 51, 66ZK
	
 J29A-XXTJ	 J29A-XXZK

Number of cores	A (mm)	B (mm)	C (mm)	D (mm) Plug	D (mm) Socket	E (mm)	F (mm) Plug	F (mm) Socket	G (mm)
9	26.1	20.1	13	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	14.6	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

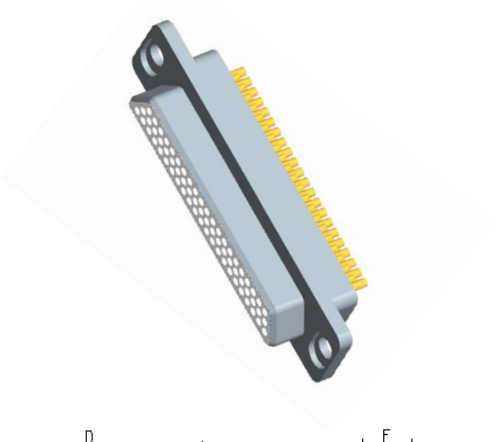
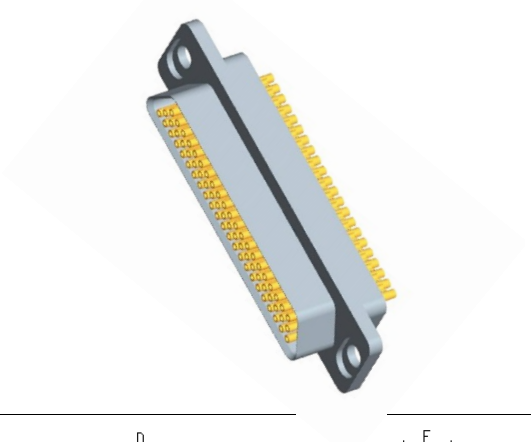
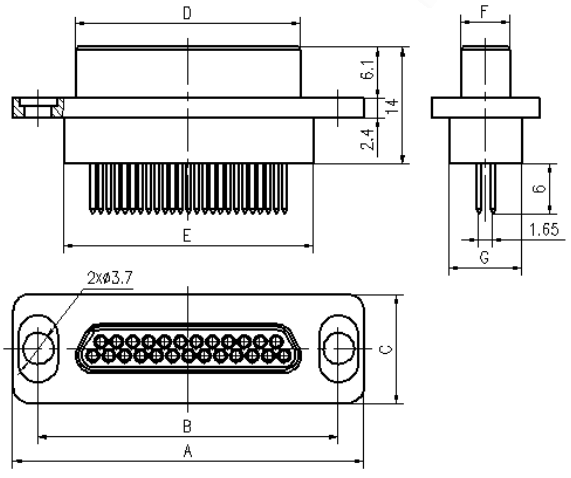
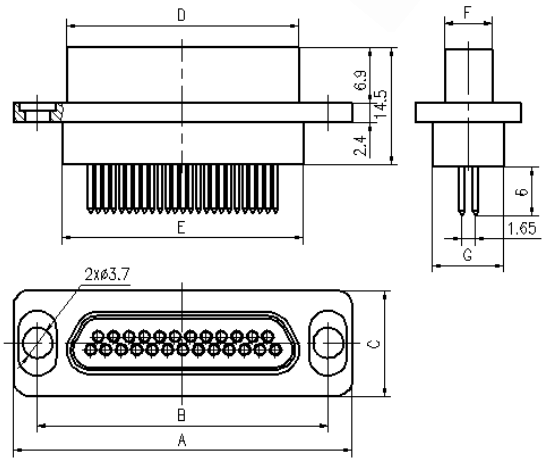
J29A welding type J29A-TJH/ZKH

Plug: J29A-9, 15, 21, 25, [illegible] 51, 66TJH	Socket: J29A-9, 15 [illegible] 5, 31, 37, 51, 66ZKH
	
	
J29A-XXTJH	J29A-XXZKH

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	26.1	20.1	13	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	14.6	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

J29A in-line PCB type J29A-TJN/ZKN

PCB hole spacing 1.91 × 1.65 grid (column × row)

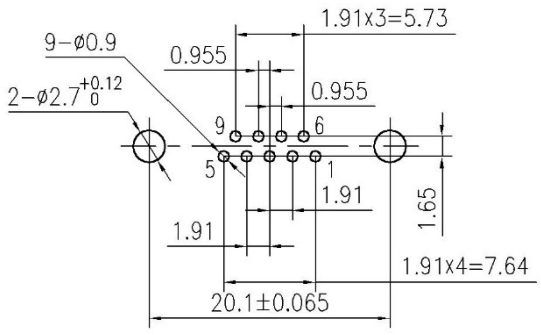
Plug: J29A-9, 15, 21, 25, 3[illegible] 51, 66TJN	Socket: J29A-9, 15, 2[illegible]1, 37, 51, 66ZKN
	
 J29A-XXTJN	 J29A-XXZKN

Number of cores	A (mm)	B (mm)	C (mm)	D (mm) Plug	D (mm) Socket	E (mm)	F (mm) Plug	F (mm) Socket	G (mm)
9	26.1	20.1	13	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	14.6	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

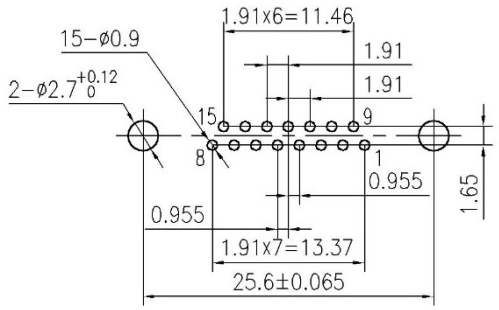
Hole size of J29A series in-line PCB plug (grid spacing 1.91 × 1.65): J29A-XXTJN;

The hole size of the pin is $\Phi 0.9^{+0.1}_{0}$, and the size of the mounting hole is $\Phi 2.7^{+0.12}_{0}$ (viewed from the threading direction of the PCB contact).

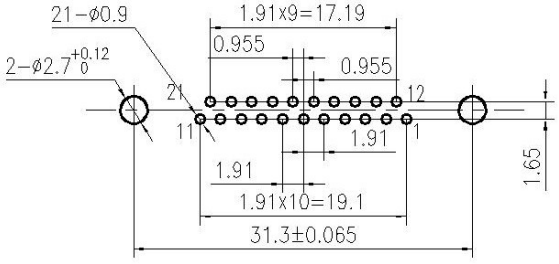
J29A-9TJN



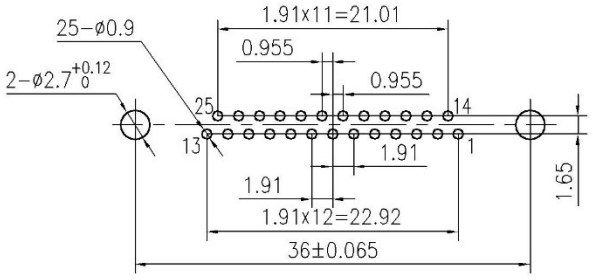
J29A-15TJN



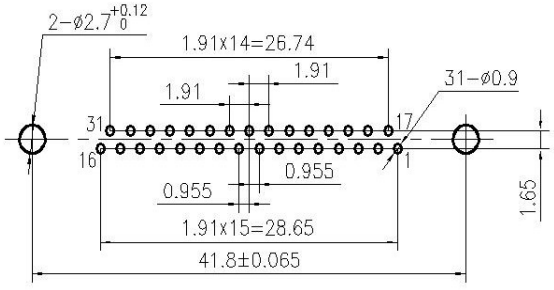
J29A-21TJN



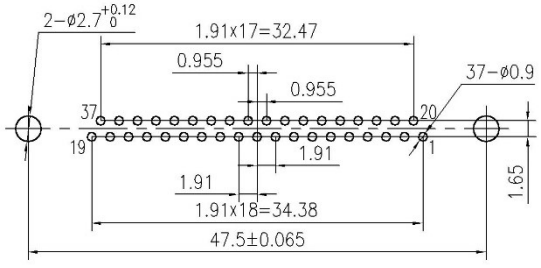
J29A-25TJN



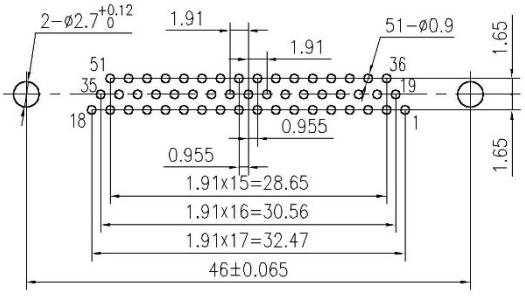
J29A-31TJN



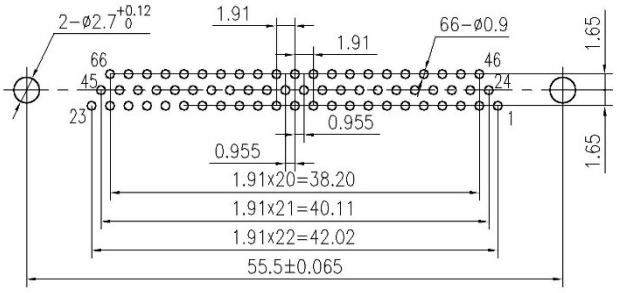
J29A-37TJN



J29A-51TJN



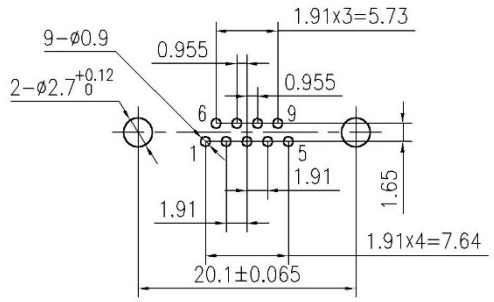
J29A-66TJN



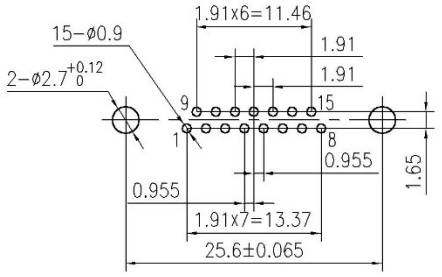
Hole size of J29A series in-line socket (grid spacing 1.91 × 1.65): J29A-XXZKN;

The hole size of the pin is $\Phi 0.9^{+0.1}_{0}$, and the size of the mounting hole is $\Phi 2.7^{+0.12}_{0}$ (viewed from the threading direction of the PCB contact).

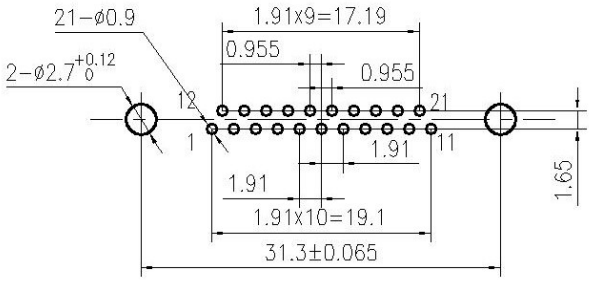
J29A-9ZKN



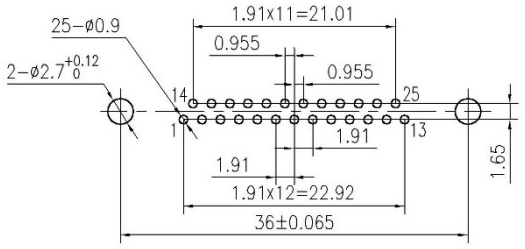
J29A-15ZKN



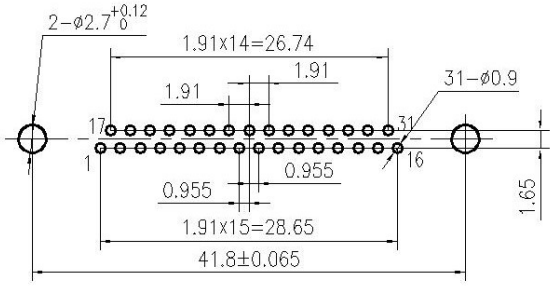
J29A-21ZKN



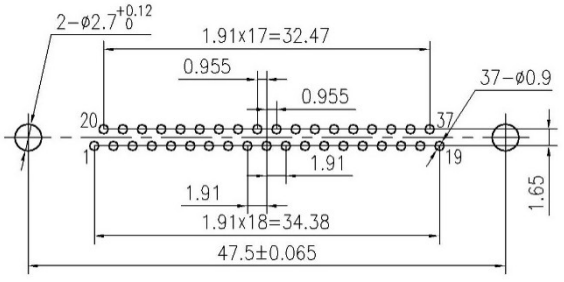
J29A-25ZKN



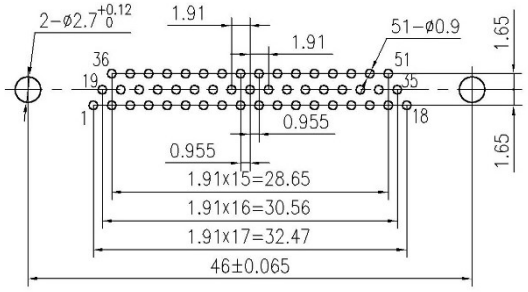
J29A-31ZKN



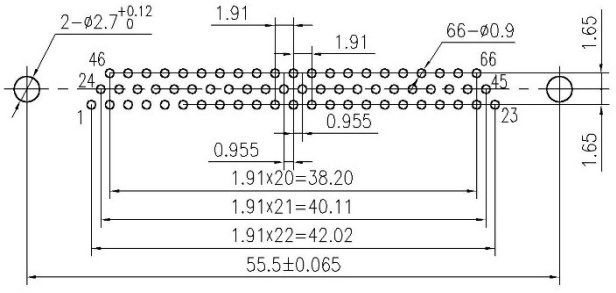
J29A-37ZKN



J29A-51ZKN

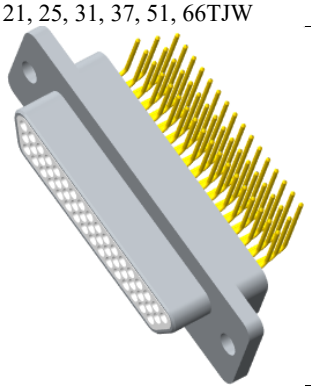
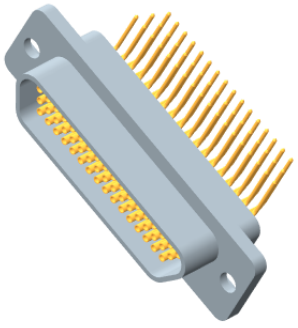
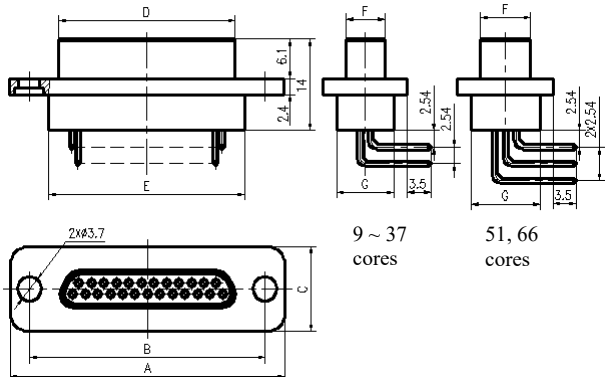
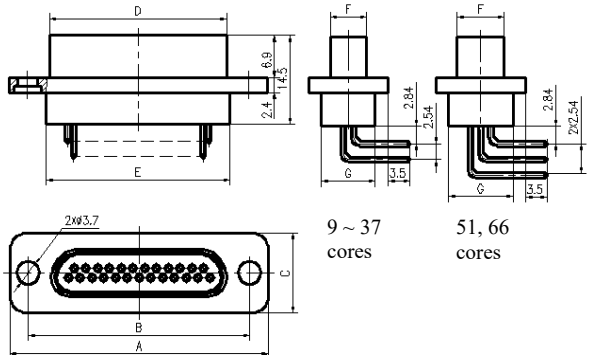


J29A-66ZKN



J29A bent PCB type J29A-TJW/ZKW

PCB hole spacing 1.91 × 2.54 grid

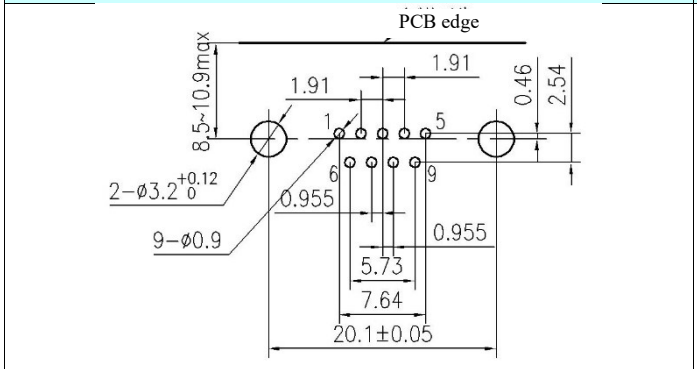
Plug: J29A-9, 15, 21, 25, 31, 37, 51, 66TJW	Socket: J29A-9, 15, 21, 25, 31, 37, 51, 66ZKW
	
 9 ~ 37 cores 51, 66 cores	 9 ~ 37 cores 51, 66 cores
J29A-XXTJW	J29A-XXZKW

Number of cores	A (mm)	B (mm)	C (mm)	D (mm) Plug	D (mm) Socket	E (mm)	F (mm) Plug	F (mm) Socket	G (mm)
9	26.1	20.1	13	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	14.6	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

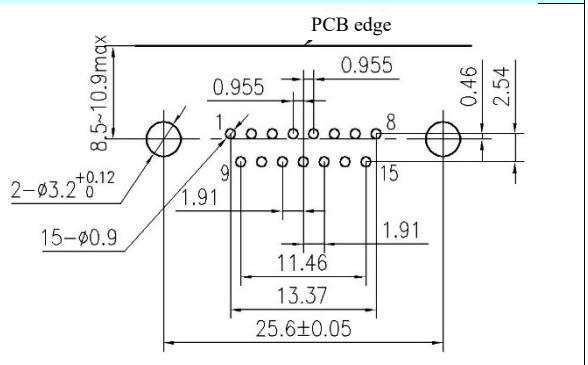
Hole size of J29A series bent PCB plug (grid spacing 1.91 × 2.54): J29A-XXTJW;

The hole size of the pin is $\Phi 0.9^{+0.1}_{0}$, and the size of the mounting hole is $\Phi 3.2^{+0.12}_{0}$ (viewed from the threading direction of the PCB contact).

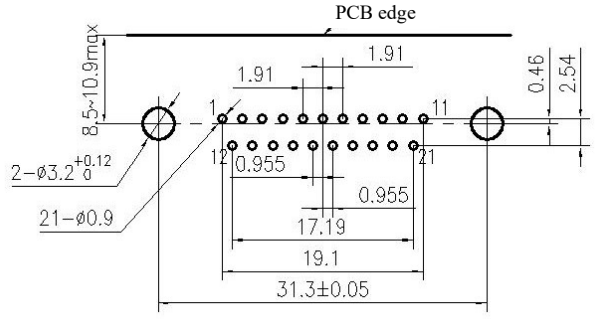
J29A-9TJW



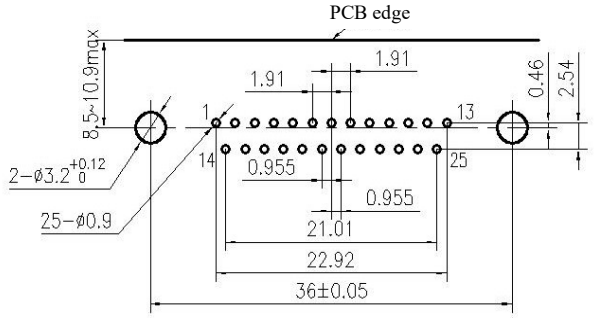
J29A-15TJW



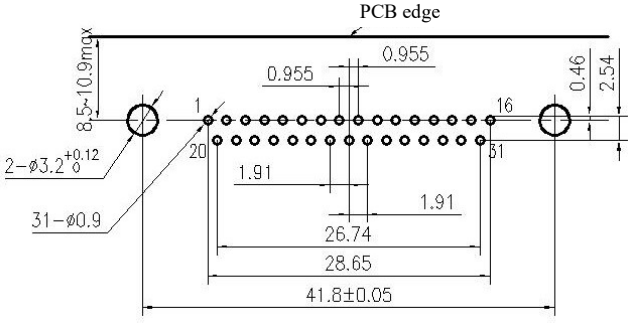
J29A-21TJW



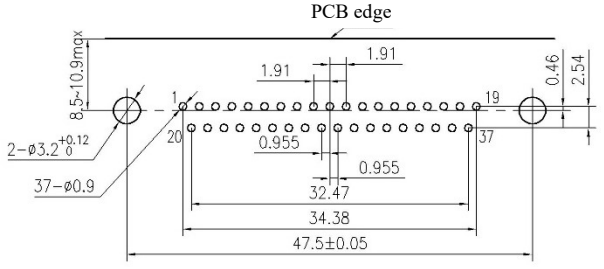
J29A-25TJW



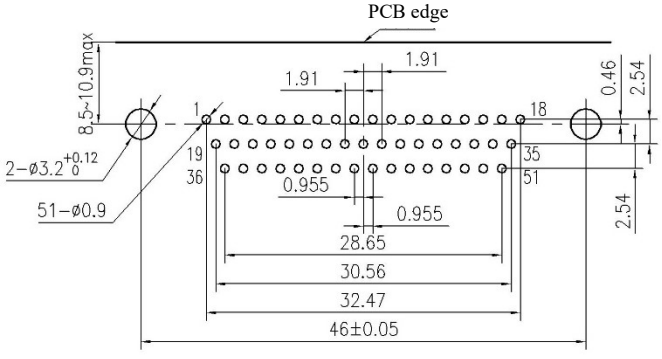
J29A-31TJW



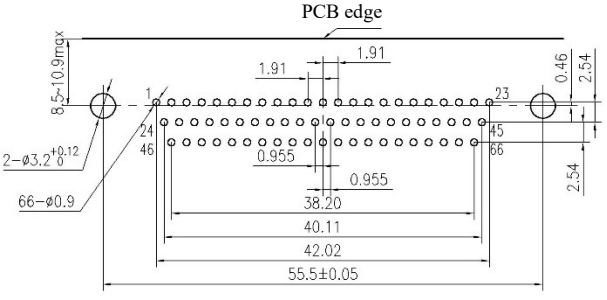
J29A-37TJW



J29A-51TJW



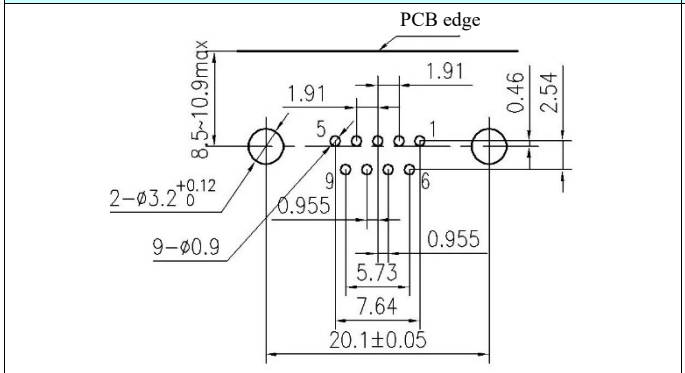
J29A-66TJW



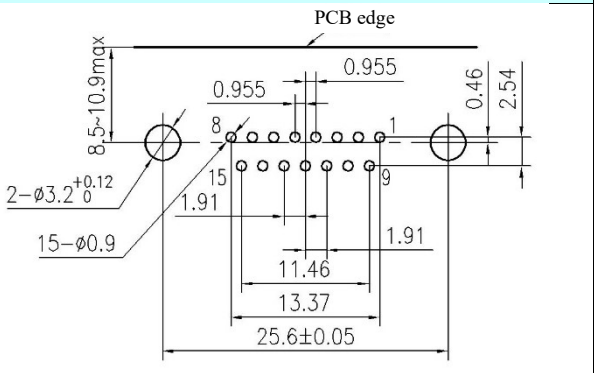
Hole size of J29A series bent socket (grid spacing 1.91 × 2.54): J29A-XXZKW;

The hole size of the pin is $\Phi 0.9_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 3.2_{0}^{+0.12}$ (viewed from the threading direction of the PCB contact).

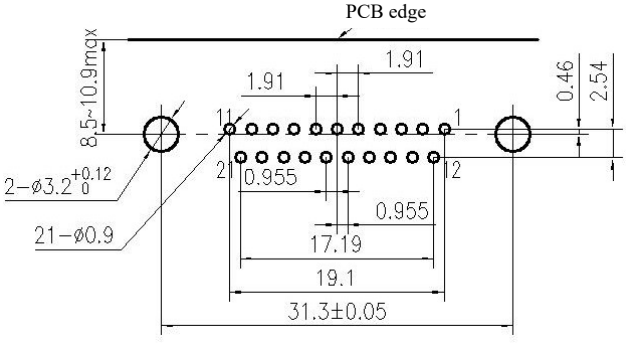
J29A-9ZKW



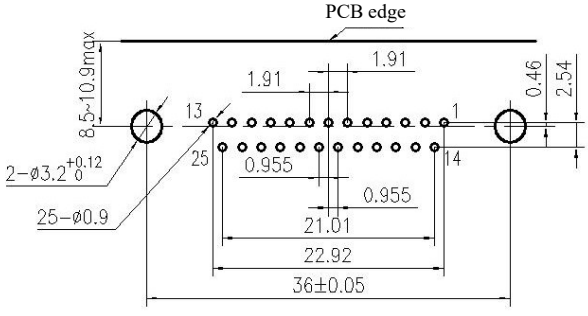
J29A-15ZKW



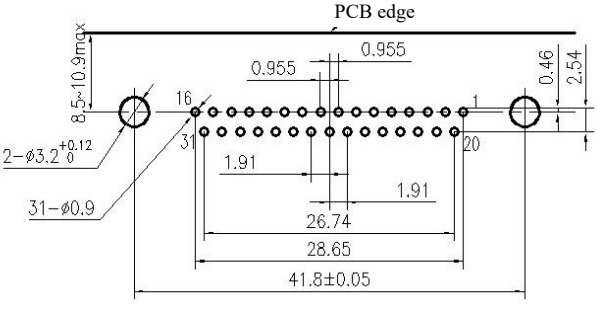
J29A-21ZKW



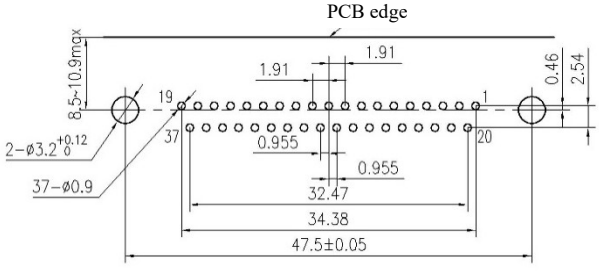
J29A-25ZKW



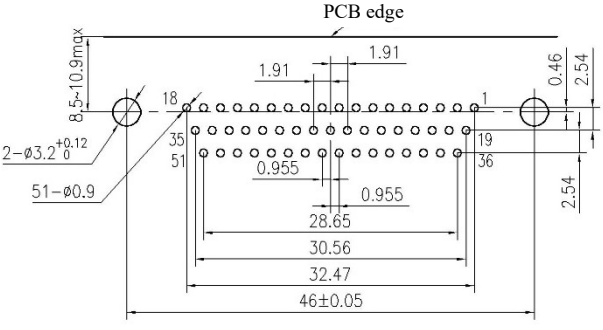
J29A-31ZKW



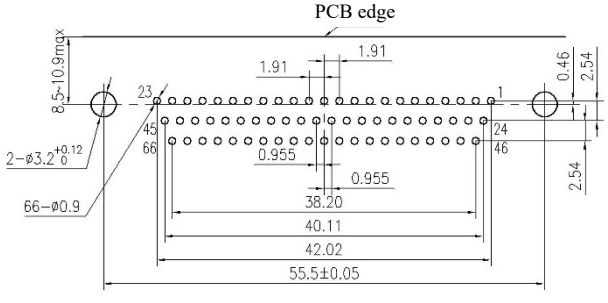
J29A-37ZKW



J29A-51ZKW

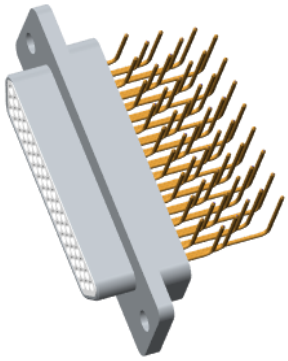
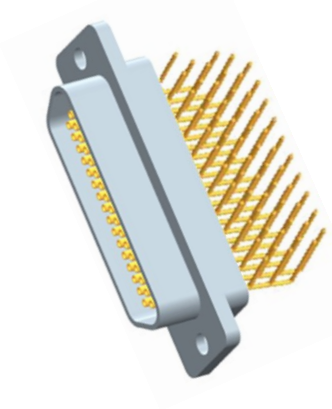
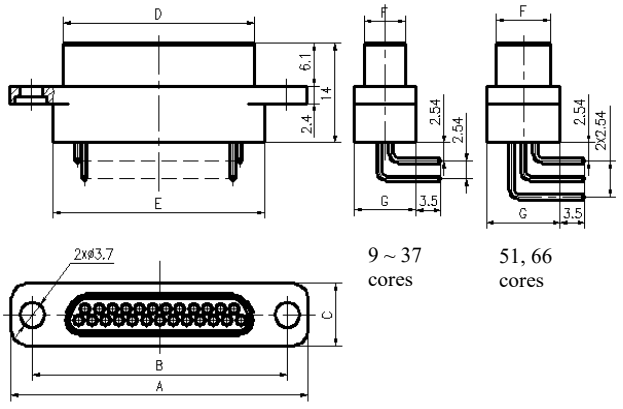
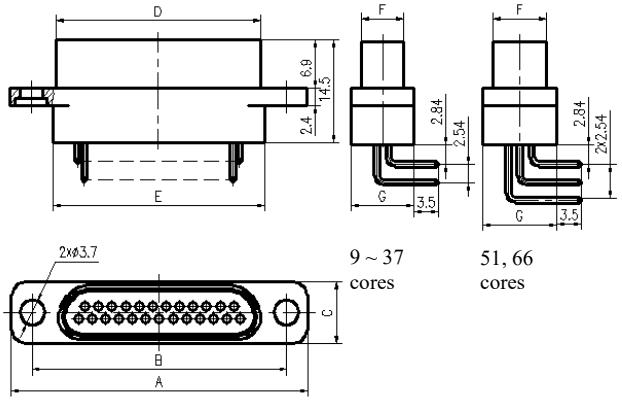


J29A-66ZKW



J29A bent PCB type J29A-TJWI/ZKWI

PCB hole spacing 3.82 × 2.54 grid

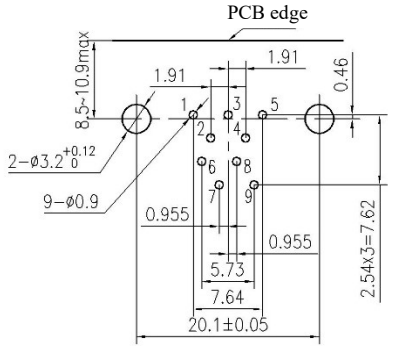
Plug: J29A-9, 15, 21, 25, 31, 37, 51, 66TJWI	Socket: J29A-9, 15, 21, 25, 31, 37, 51, 66ZKWI
	
	
J29A-XXTJWI	J29A-XXZKWI

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	26.1	20.1	13	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	14.6	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

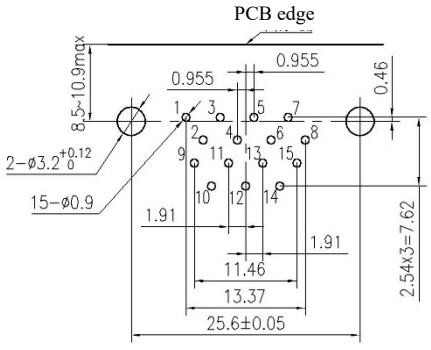
Hole size of J29A series bent PCB plug (grid spacing 3.82 × 2.54): J29A-XXTJWI;

The hole size of the pin is $\Phi 0.9_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 3.2_{0}^{+0.12}$ (viewed from the threading direction of the PCB contact).

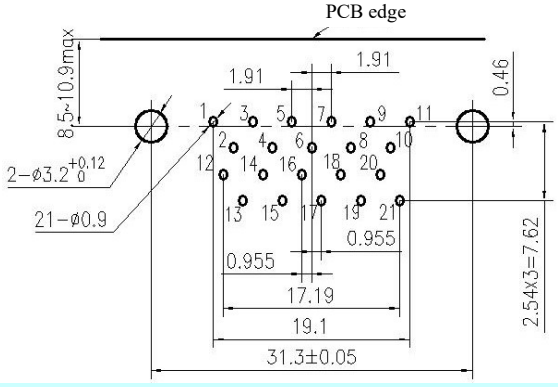
J29A-9TJWI



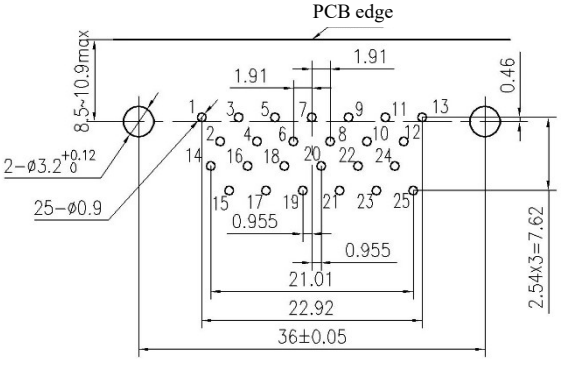
J29A-15TJWI



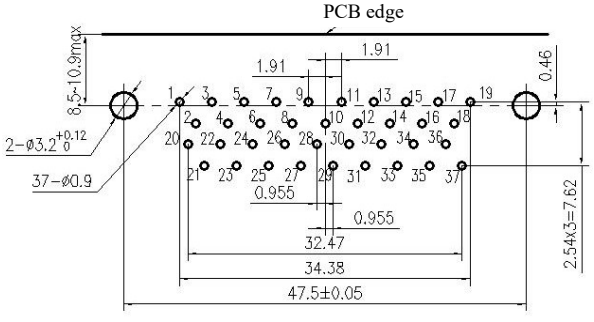
J29A-21TJWI



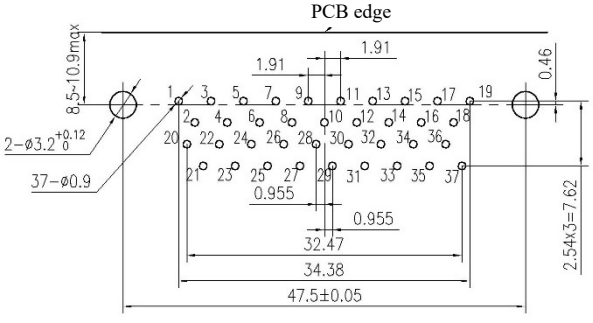
J29A-25TJWI



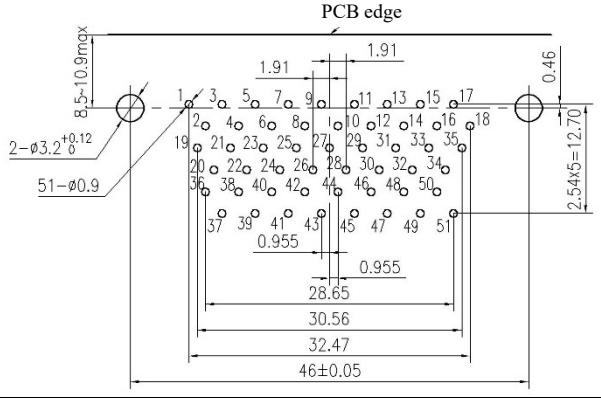
J29A-31TJWI



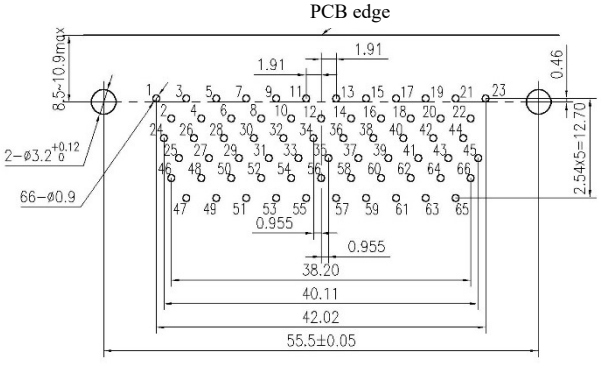
J29A-37TJWI



J29A-51TJWI



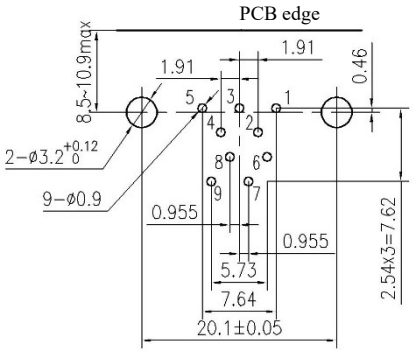
J29A-66TJWI



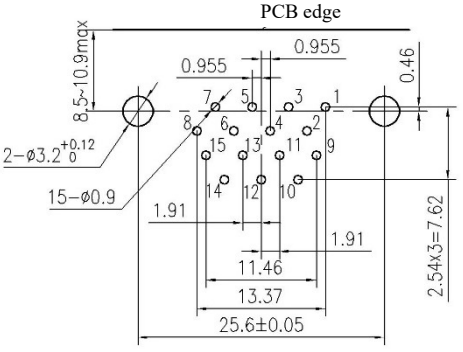
Hole size of J29A series bent socket (grid spacing 3.82 × 2.54): J29A-XXZKWI;

The hole size of the pin is $\Phi 0.9_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 3.2_{0}^{+0.12}$ (viewed from the threading direction of the PCB contact).

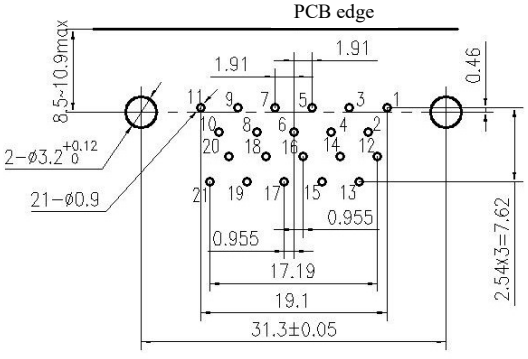
J29A-9ZKWI



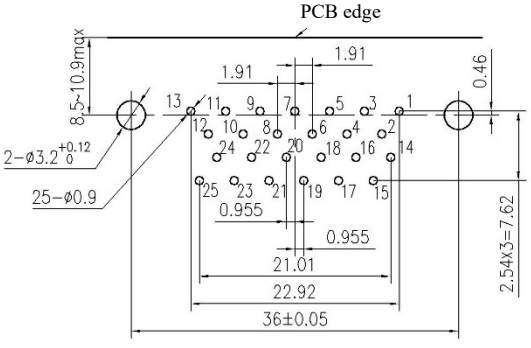
J29A-15ZKWI



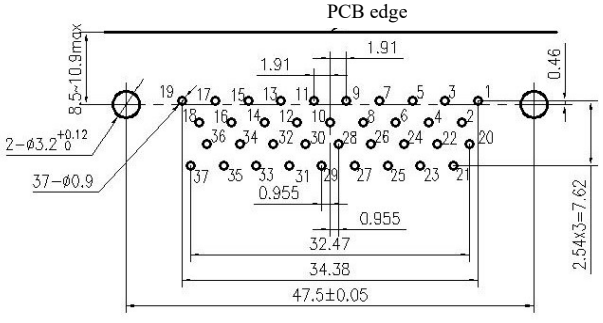
J29A-21ZKWI



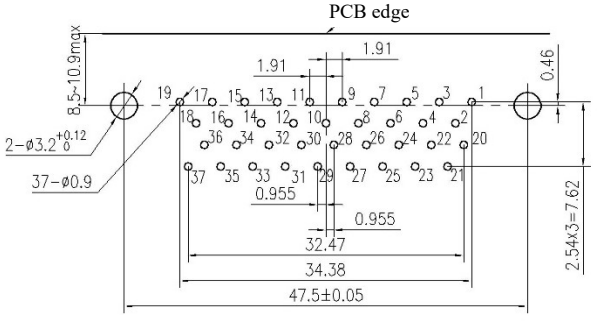
J29A-25ZKWI



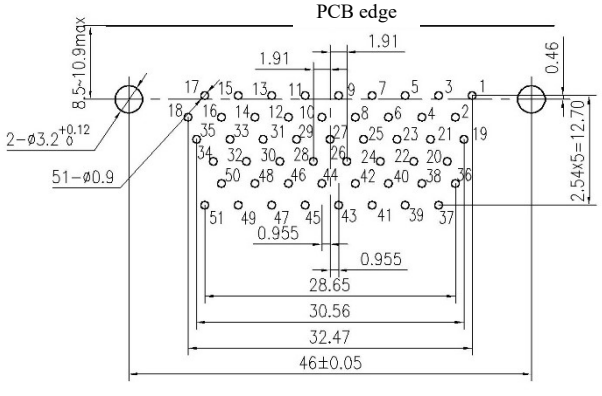
J29A-31ZKWI



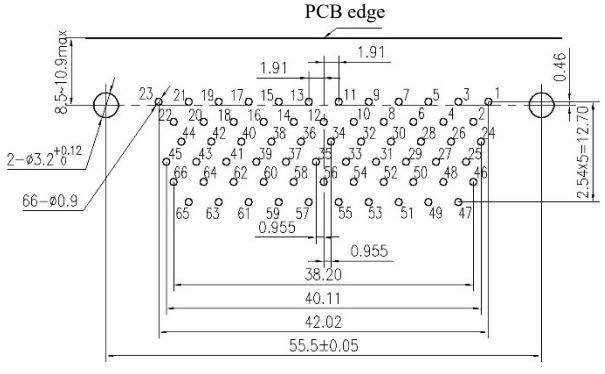
J29A-37ZKWI



J29A-51ZKWI

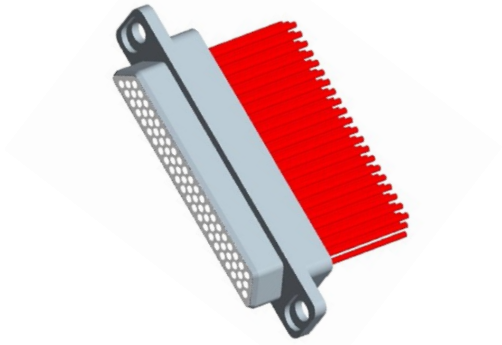
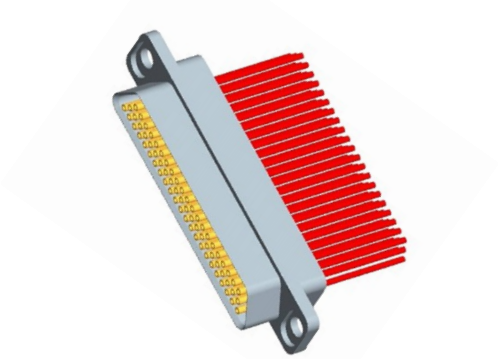
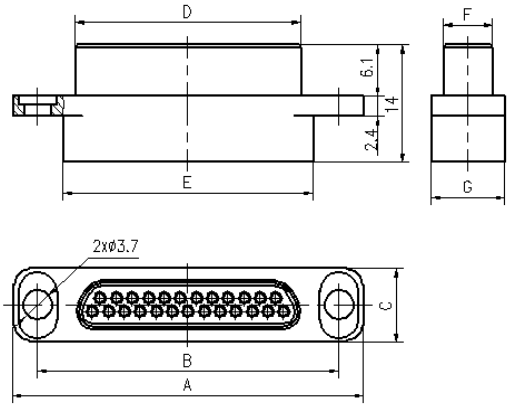
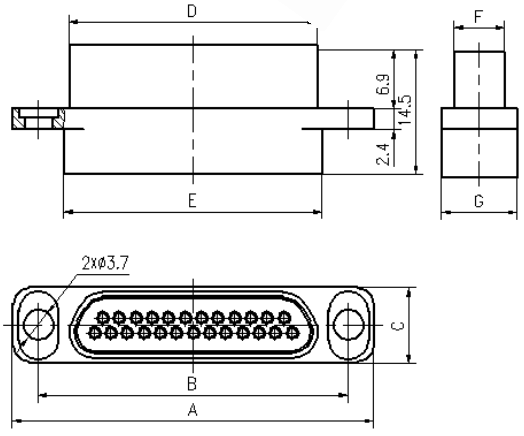


J29A-66ZKWI



J29A-A crimping type J29A-TJ/ZK-A

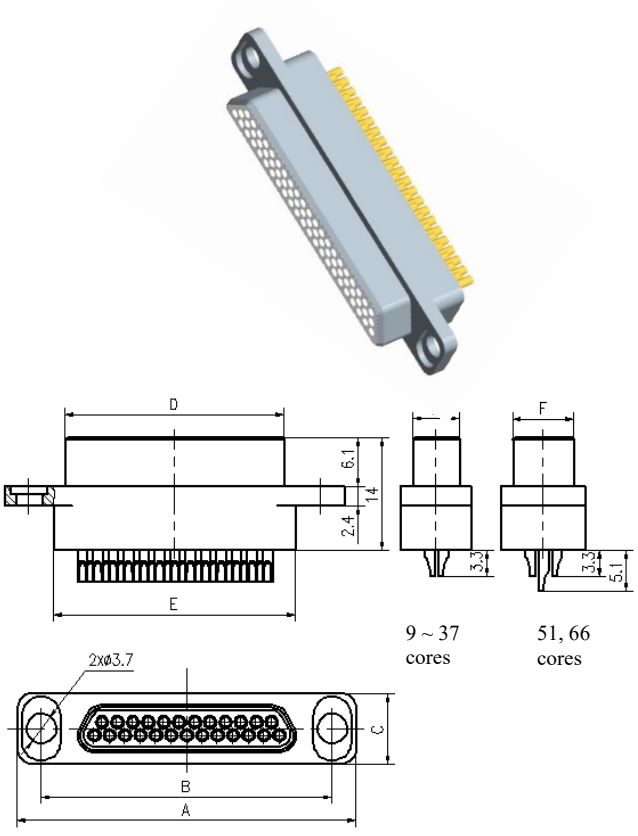
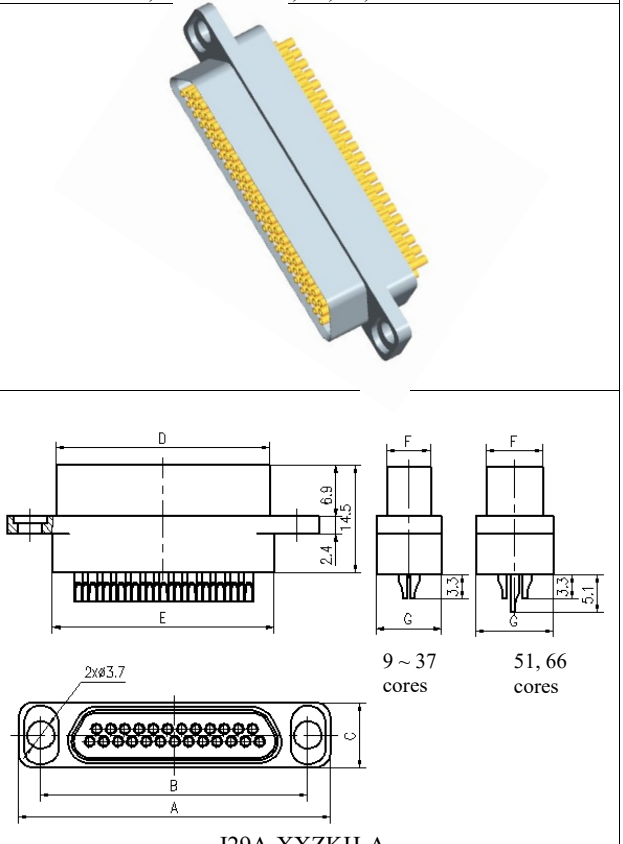
The product housing is char nd the width of housing flange is the same as the tail end

Plug: J29A-9, 15, 21, 2 66TJ-A	Socket: J29A-9, 15 31, 37, 51, 66ZK-A
	
	
J29A-XXTJ-A	J29A-XXZK-A

Number of cores	A (mm)	B (mm)	C (mm)	D (mm) Plug	D (mm) Socket	E (mm)	F (mm) Plug	F (mm) Socket	G (mm)
9	26.1	20.1	8.8	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	10.7	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

J29A-A welding type J29A-TJH/ZKH-A

The product housing is changed, and the width of housing flange is the same as the tail end

Plug: J29A-9, 15, 21, 25 37, 51, 66TJH-A	Socket: J29A-9, 15 31, 37, 51, 66ZKH-A
	

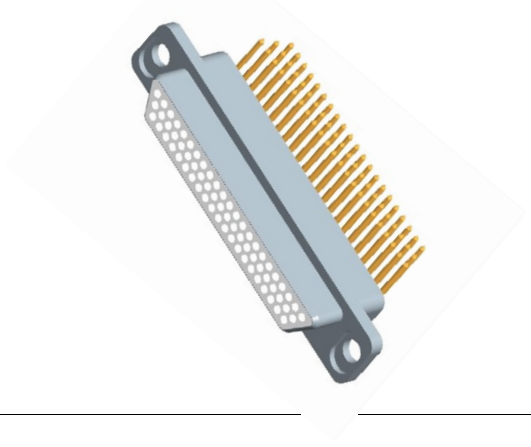
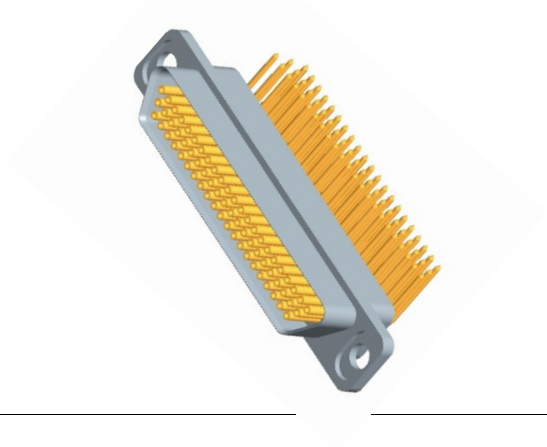
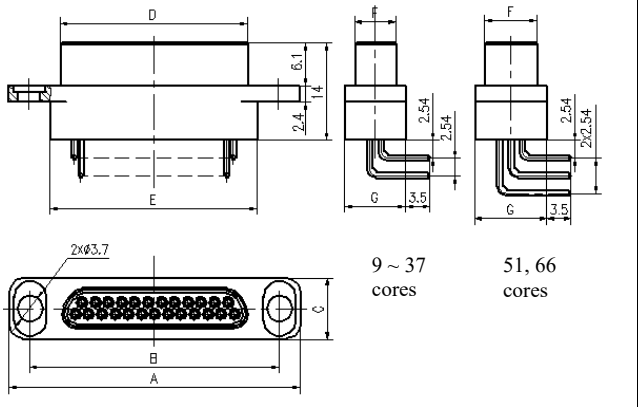
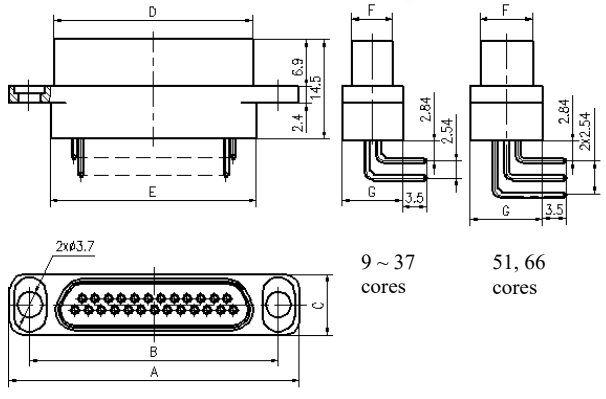
J29A-XXTJH-A

J29A-XXZKH-A

Number of cores	A (mm)	B (mm)	C (mm)	D (mm) Plug	D (mm) Socket	E (mm)	F (mm) Plug	F (mm) Socket	G (mm)
9	26.1	20.1	8.8	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	10.7	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

J29A-A bent PCB type J29A-TJW/ZKW-A

The product housing is [illegible]nged, and the width of housing flange is the same as the tail end, with P[illegible]le spacing 1.91 × 2.54 grid

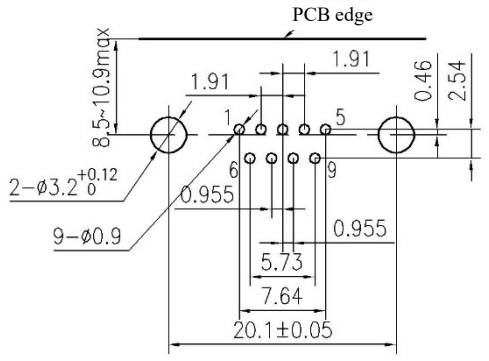
Plug: J29A-9, 15, [illegible]37, 51, 66TJW-A	Socket: J29A-9, 15, 21, [illegible]66ZKW-A
	
	
J29A-XXTJW-A	J29A-XXZKW-A

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	26.1	20.1	8.8	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	10.7	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

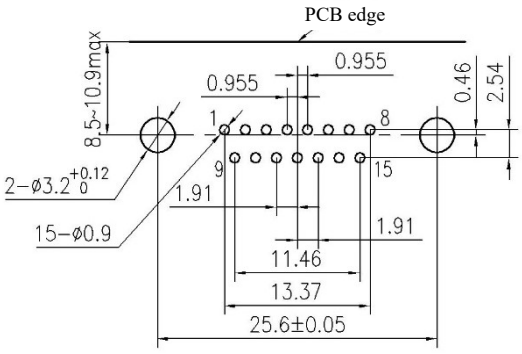
Hole size of J29A series bent PCB plug (grid spacing 1.91 × 2.54): J29A-XXTJW-A (same as J29A-XXTJW);

The hole size of the pin is $\Phi 0.9^{+0.1}_{0}$, and the size of the mounting hole is $\Phi 3.2^{+0.12}_{0}$ (viewed from the threading direction of the PCB contact).

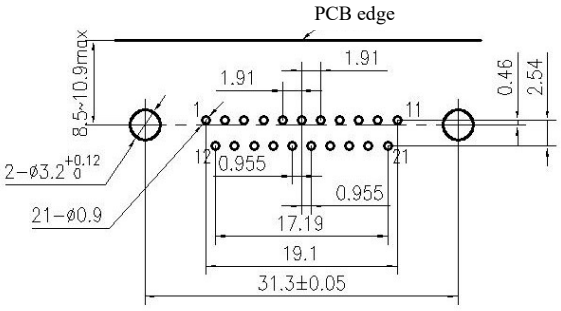
J29A-9TJW-A



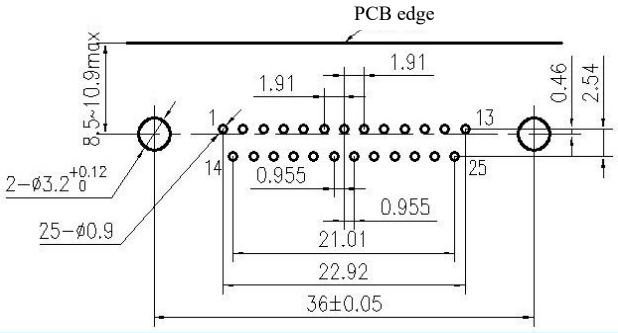
J29A-15TJW-A



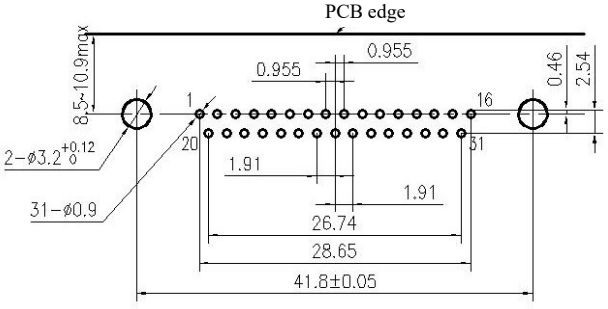
J29A-21TJW-A



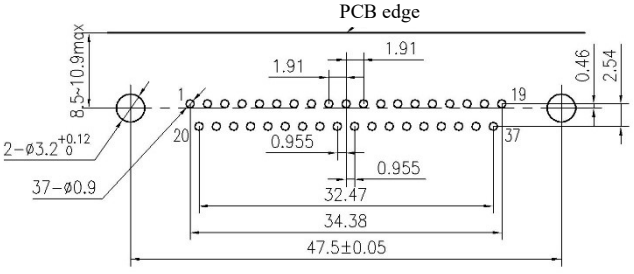
J29A-25TJW-A



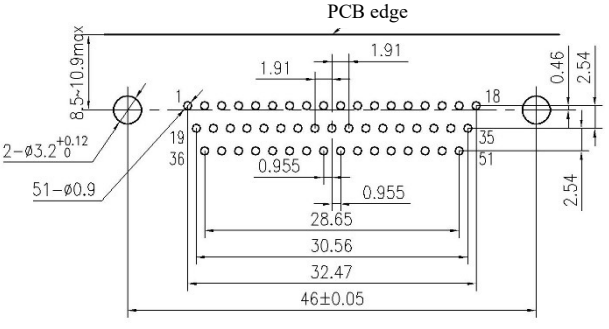
J29A-31TJW



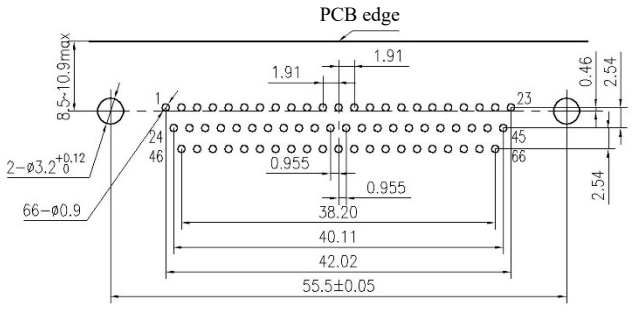
J29A-37TJW



J29A-51TJW



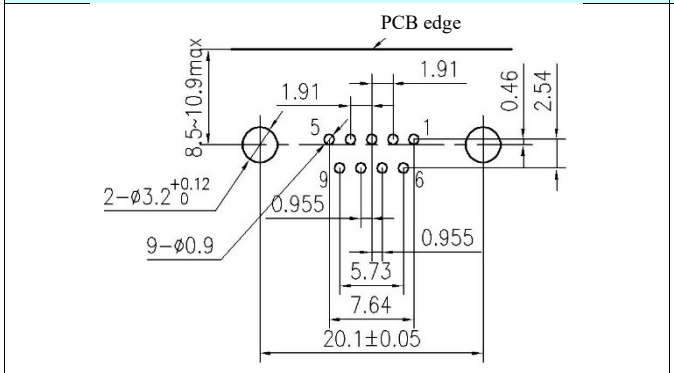
J29A-66TJW



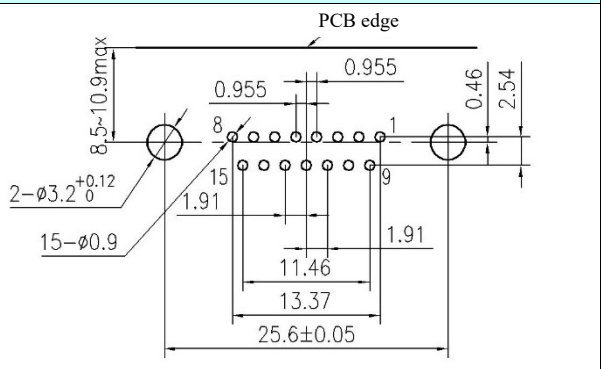
Hole size of J29A series bent socket (grid spacing 1.91 × 2.54): J29A-XXZKW-A (same as J29A-XXZKW);

The hole size of the pin is $\Phi 0.9_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 3.2_{0}^{+0.12}$ (viewed from the threading direction of the PCB contact).

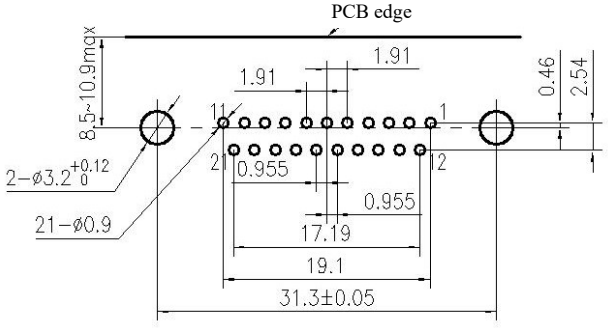
J29A-9ZKW-A



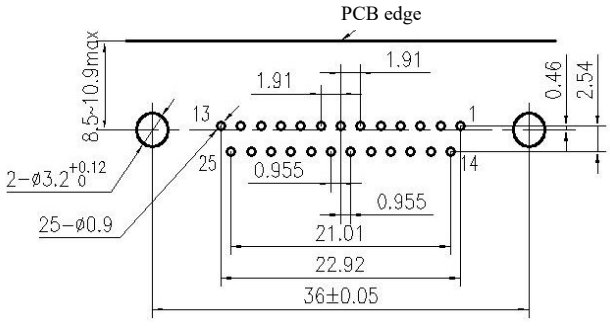
J29A-15ZKW-A



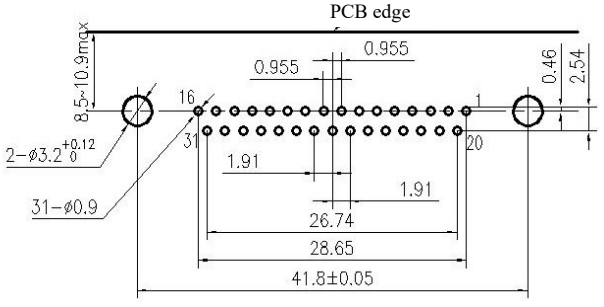
J29A-21ZKW-A



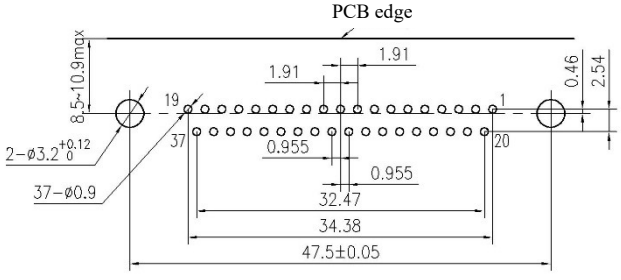
J29A-25ZKW-A



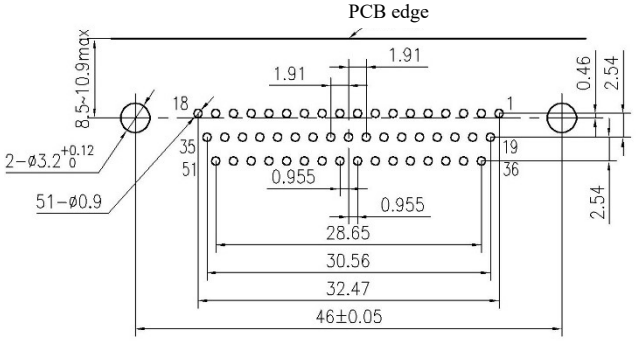
J29A-31ZKW-A



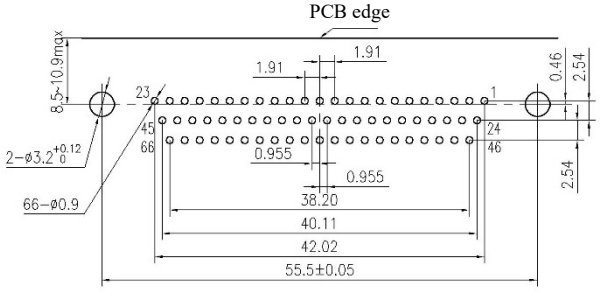
J29A-37ZKW-A



J29A-51ZKW-A

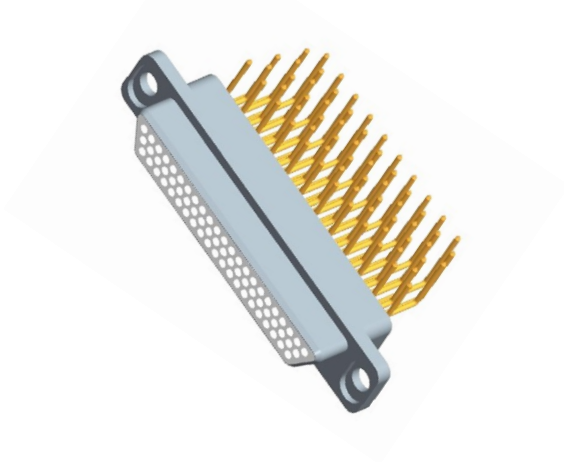
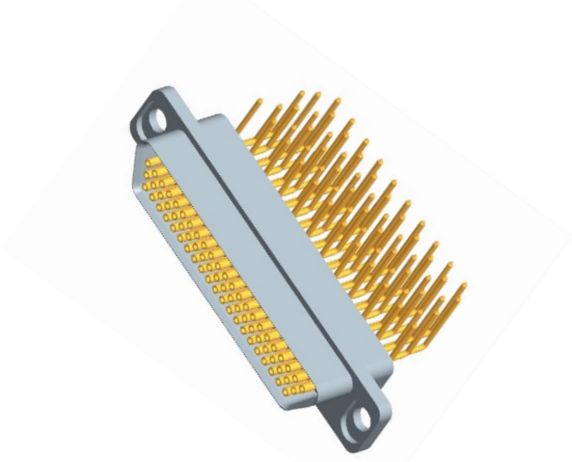
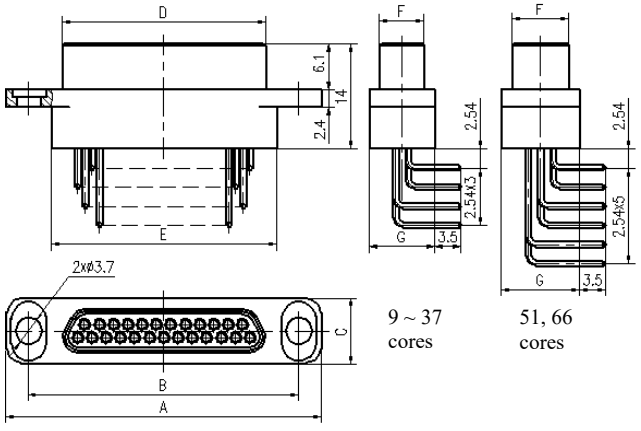
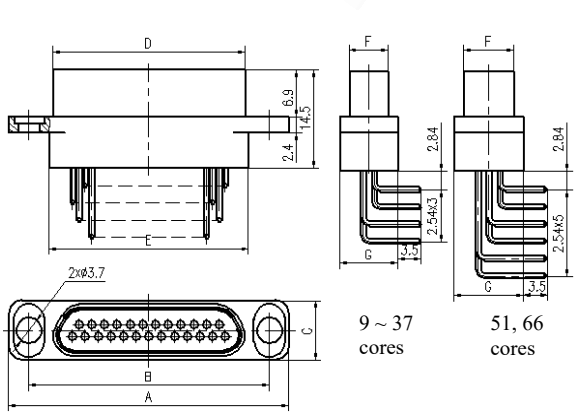


J29A-66ZKW-A



J29A-A bent PCB type J29A-TJ WI/ZKWI-A

The product housing is cha ' and the width of housing flange is the same as the tail end, with PCB hole spacing 3.82 × 2.54 grid

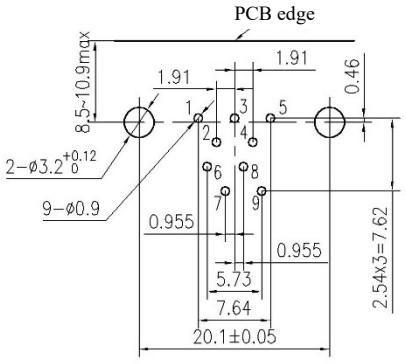
Plug: J29A-9, 15, 21, 2 ' 66TJWI-A	Socket: J29A-9, 15 25, 31, 37, 51, 66ZKWI-A
	
	
J29A-XXTJWI-A	J29A-XXZKWI-A

Number of cores	A (mm)	B (mm)	C (mm)	D (mm) Plug	D (mm) Socket	E (mm)	F (mm) Plug	F (mm) Socket	G (mm)
9	26.1	20.1	8.8	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	10.7	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

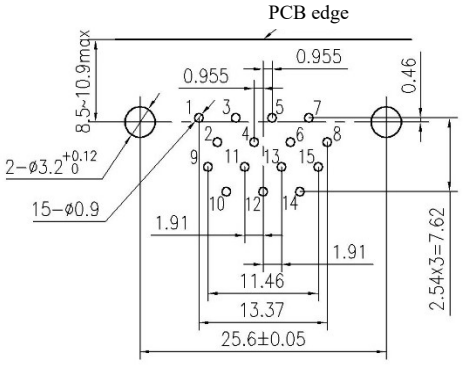
Hole size of J29A series bent PCB plug (grid spacing 3.82 × 2.54): XXTJWI-A (same as XXTJWI);

The hole size of the pin is $\Phi 0.9_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 3.2_{0}^{+0.12}$ (viewed from the threading direction of the PCB contact).

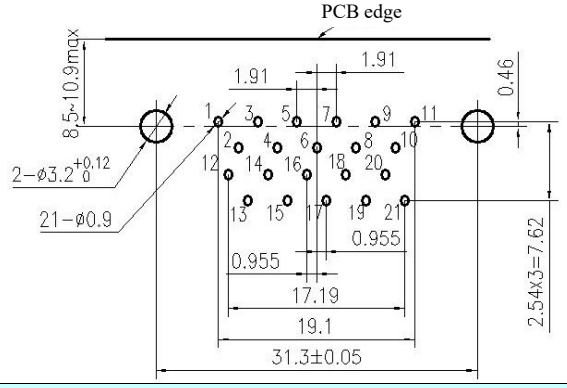
J29A-9TJWI-A



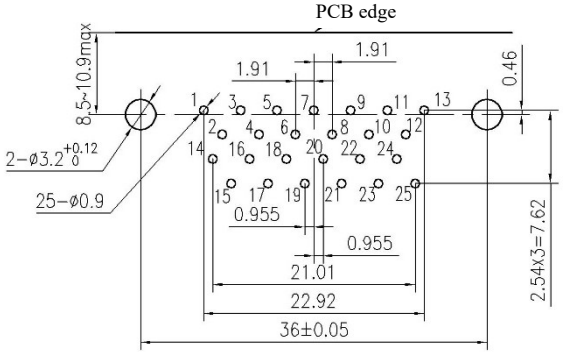
J29A-15TJWI-A



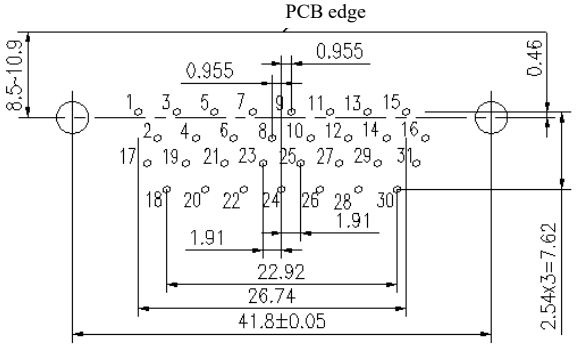
J29A-21TJWI-A



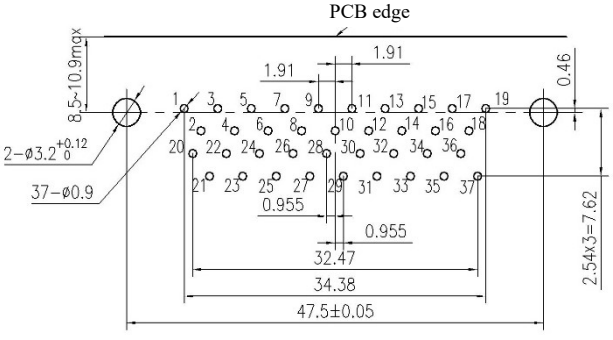
J29A-25TJWI-A



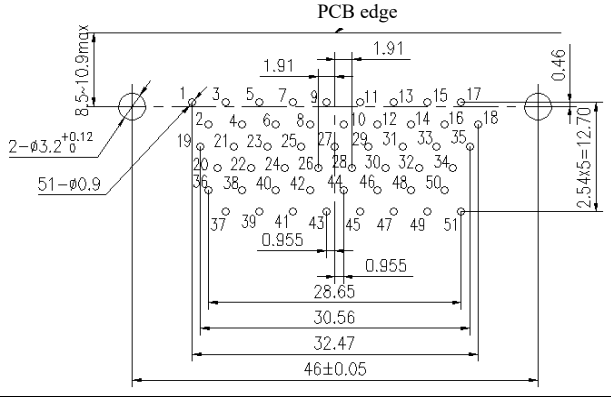
J29A-31TJWI-A



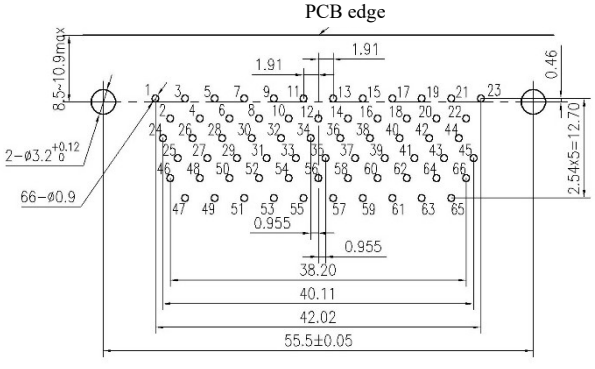
J29A-37TJWI-A



J29A-51TJWI-A



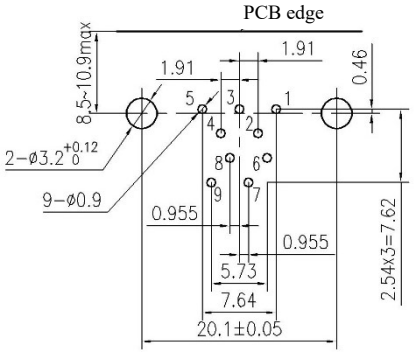
J29A-66TJWI-A



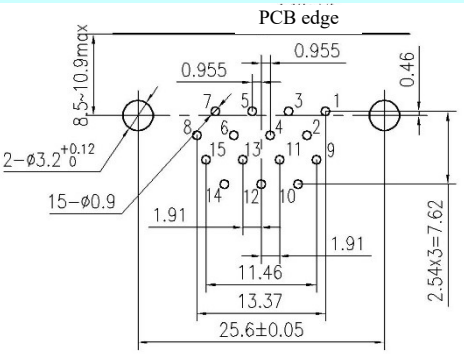
Hole size of J29A series bent PCB socket grid spacing 3.82 × 2.54): XXZKWI-A (same as XXZKWI);

The hole size of the pin is $\Phi 0.9^{+0.1}_{0}$, and the size of the mounting hole is $\Phi 3.2^{+0.12}_{0}$ (viewed from the threading direction of the PCB contact).

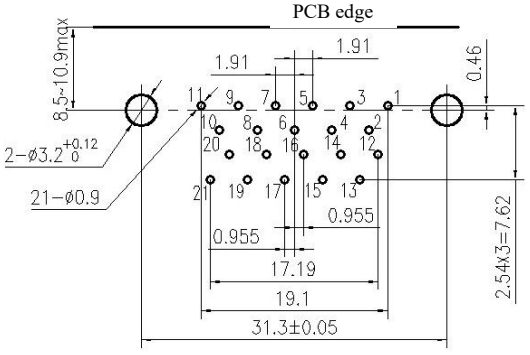
J29A-9ZKWI-A



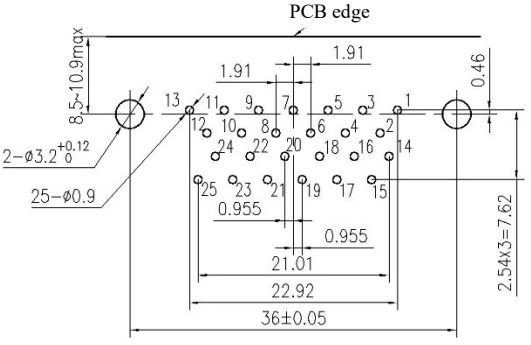
J29A-15ZKWI-A



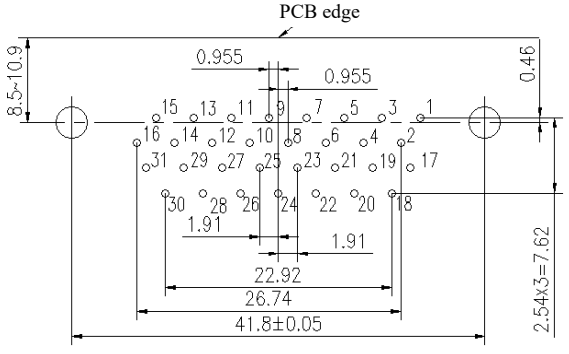
J29A-21ZKWI-A



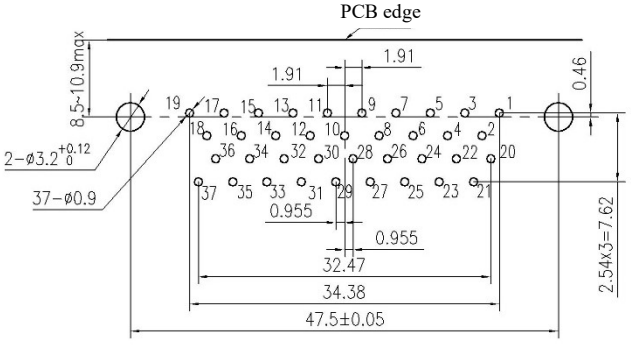
J29A-25ZKWI-A



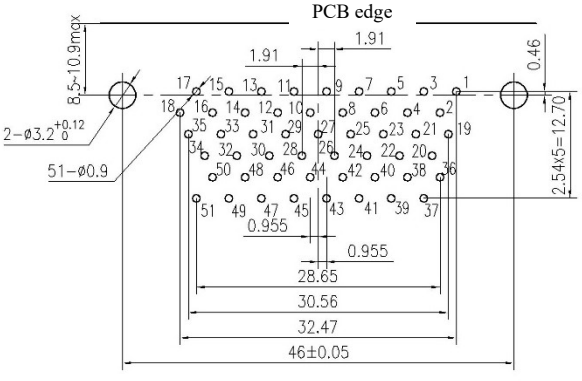
J29A-31ZKWI-A



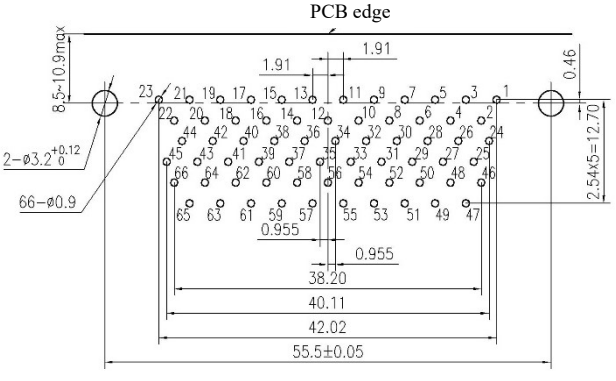
J29A-37ZKWI-A



J29A-51ZKWI-A

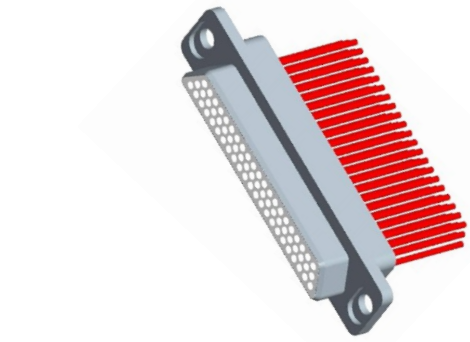
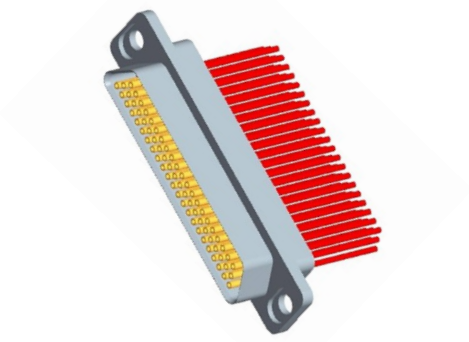
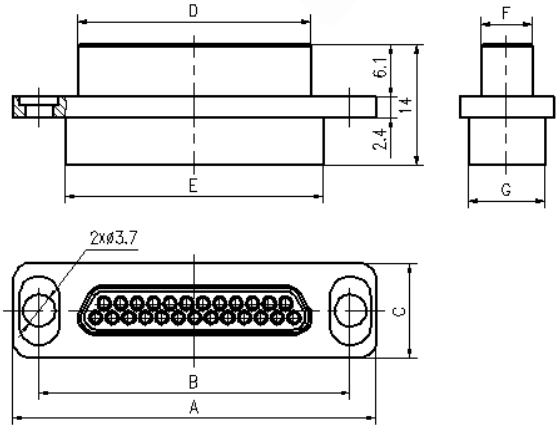
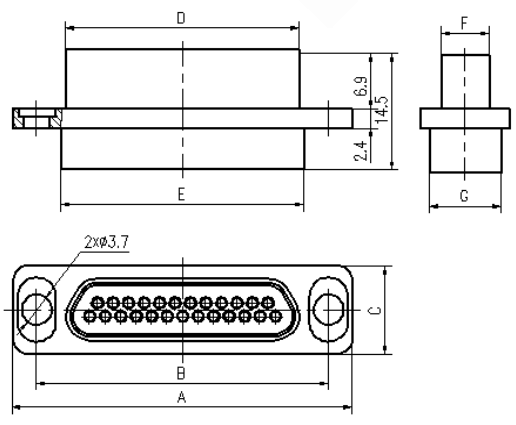


J29A-66ZKWI-A



J29A-A1 crimping type J29A-TJ/ZK-A1

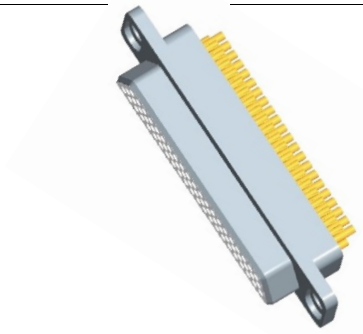
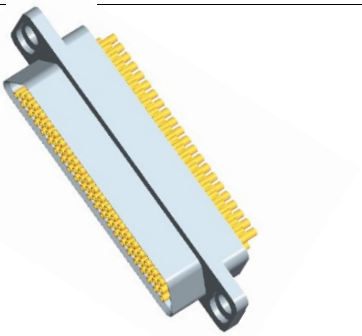
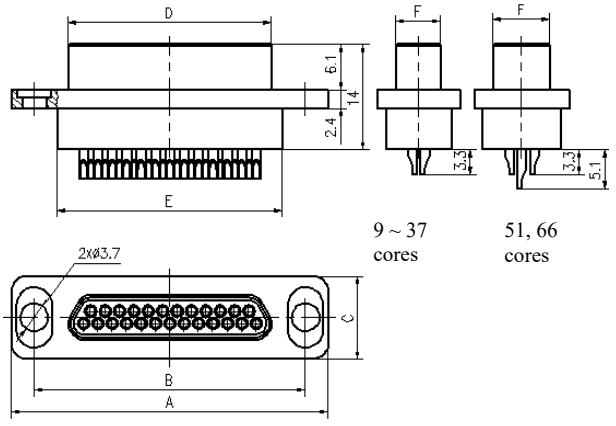
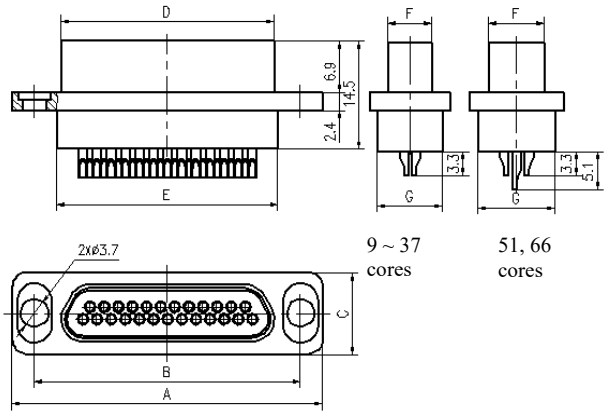
The product housing is chang d the width of the housing flange is between the ordinary type A1

Plug: J29A-9, 15, 21, 25 66TJ-A1	Socket: J29A-9, 15, 2' 51, 66ZK-A1
	
	
J29A-XXTJ-A1	J29A-XXZK-A1

Number of cores	A (mm)	B (mm)	C (mm)	D (mm) Plug	D (mm) Socket	E (mm)	F (mm) Plug	F (mm) Socket	G (mm)
9	26.1	20.1	11	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	12.6	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

J29A-A1 welding type J29A-TJH/ZKH-A1

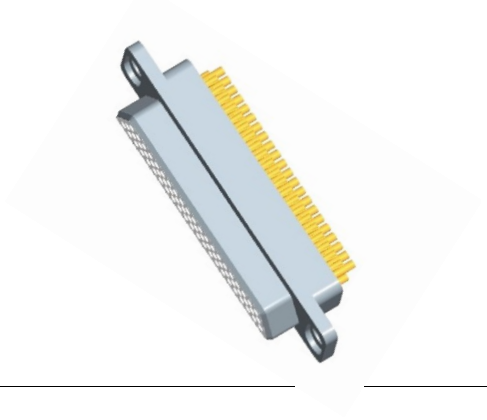
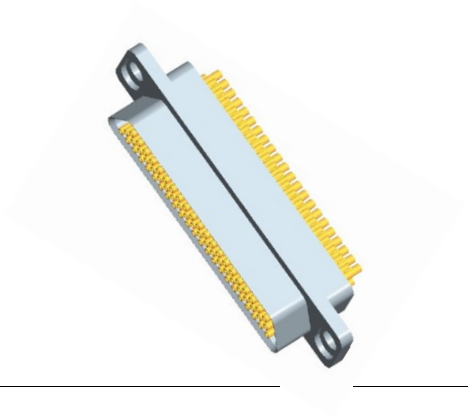
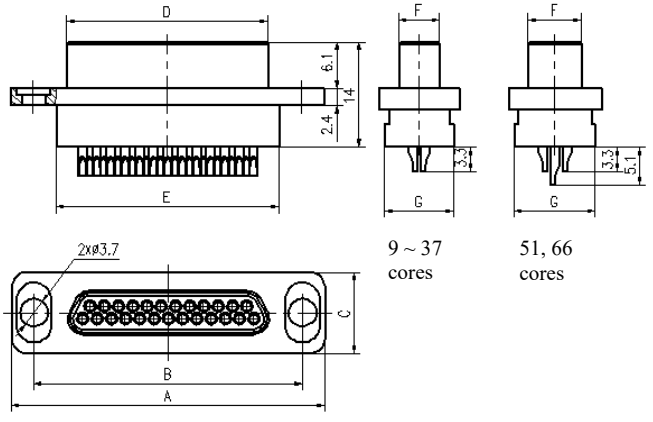
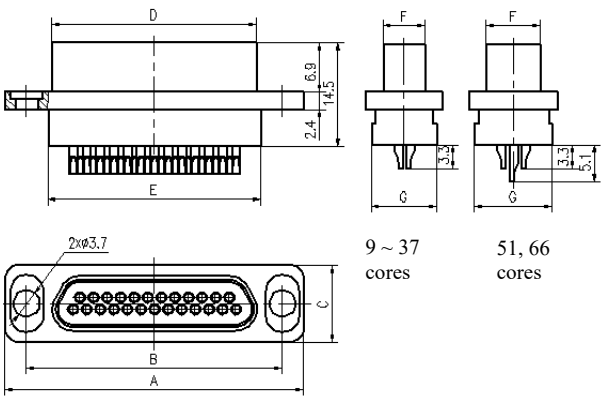
The product housing is changed, and the width of the housing flange is between the ordinary type and type A

Plug: J29A-9, 15, 21, 2 37, 51, 66TJH-A1	Socket: J29A-9, 15, 2 25, 31, 37, 51, 66ZKH-A1
	
	
J29A-XXTJH-A1	J29A-XXZKH-A1

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	26.1	20.1	11	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	12.6	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

J29A-A2 welding type J29A-TJH/ZKH-A2

The product housing is changed, and the width of the housing flange is between type A and type A1

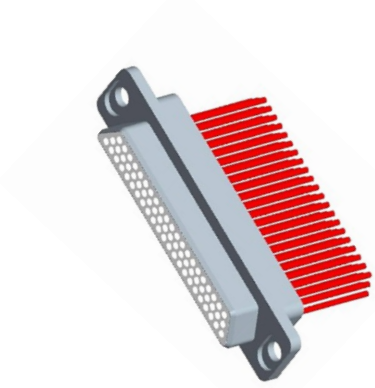
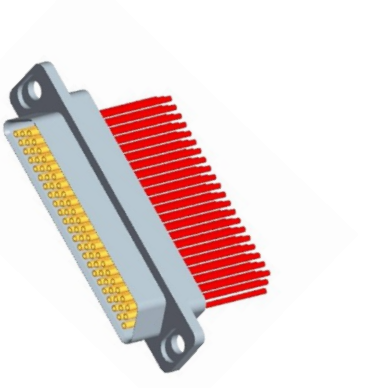
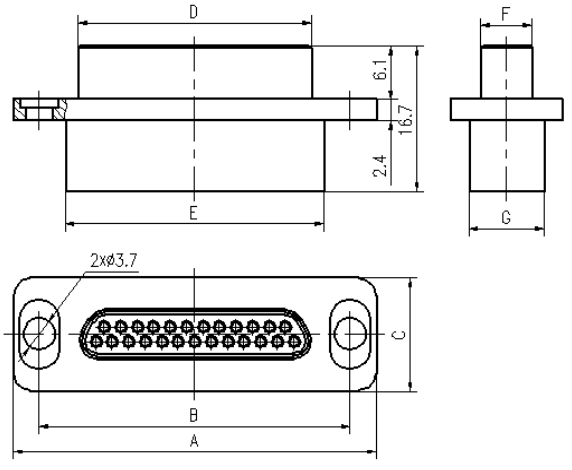
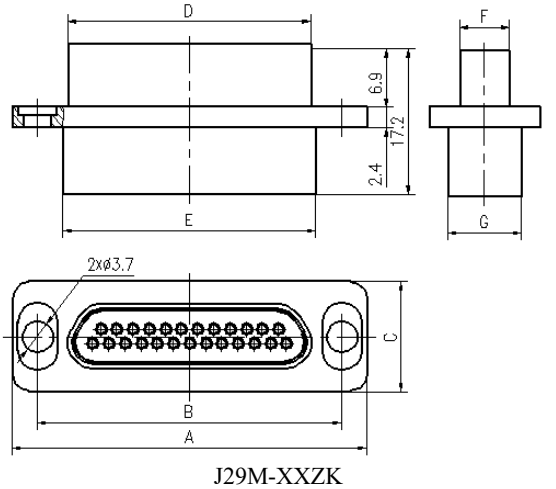
Plug: J29A-9, 15, 21, 25, 31, 37, 51, 66TJH-A2	Socket: J29A-9, 15, 21, 25, 31, 37, 51, 66ZKH-A2
	
 9 ~ 37 cores 51, 66 cores J29A-XXTJH-A2	 9 ~ 37 cores 51, 66 cores J29A-XXZKH-A2

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	26.1	20.1	10.8	11.6	12.9	14	5.5	6.8	9.2
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	12.5	37	38.8	39.9	7.55	9.35	10.9
66	61.5	55.5		46.5	48.3	49.4			

J29M crimping type J29M-TJ/ZK

The sealing-type product and the ordinary type product are only changed in the height of the glue-filling cavity at the tail end; the tail end of the contact is in a crimping form;

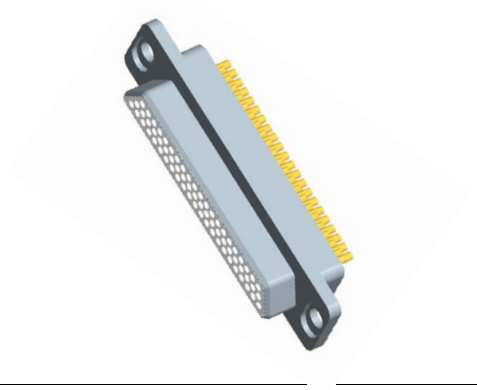
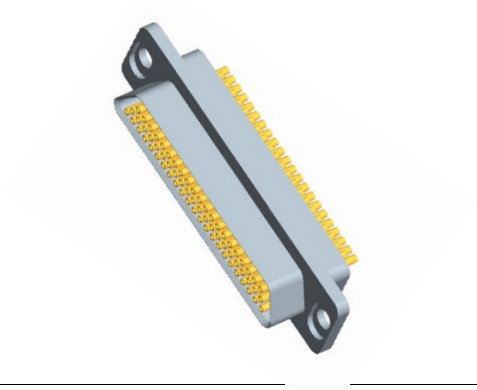
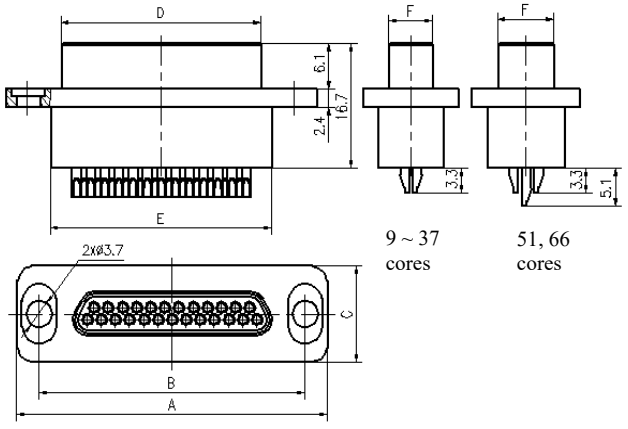
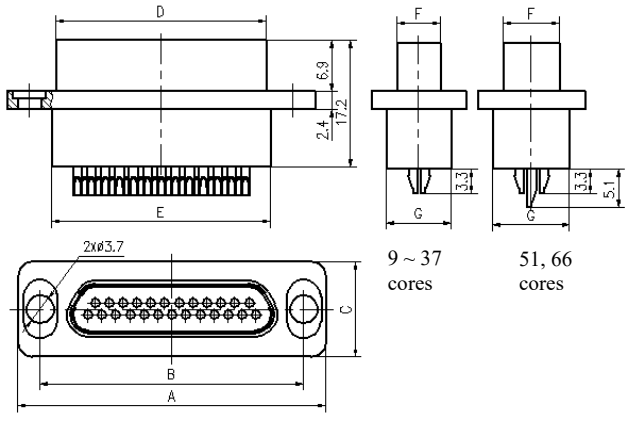
The leakage rate of helium mass spectrum detection is ≤ 1 × 10 Pa.cm /s (1 atmospheric pressure difference; the insertion end is the high pressure end).

Plug: J29M-9, 15, 21, 25, 31, 37, 51, 66TJ	Socket: J29M-9, 15, 21, 25, 31, 37, 51, 66ZK
	
	
J29M-XXTJ	J29M-XXZK

Number of cores	A (mm)	B (mm)	C (mm)	D (mm)		E (mm)	F (mm)		G (mm)
				Plug	Socket		Plug	Socket	
9	26.1	20.1	13	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	14.6	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

J29M welding type J29M-TJH/ZKH

The sealing-type product and the ordinary type product are only changed in the height of the glue-filling cavity at the tail end; the tail end of the contact is in a welding form

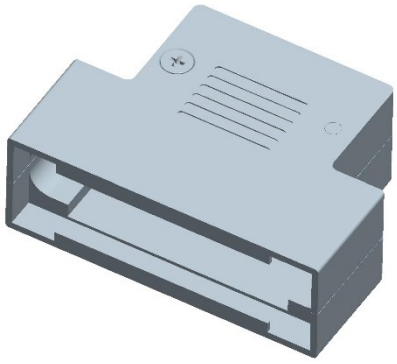
Plug: J29M-9, 15, 21, 25, 31, 37, 51, 66TJH	Socket: J29M-9, 15, 21, 25, 31, 37, 51, 66ZKH
	
	
J29M-XXTJH	J29M-XXZKH

Number of cores	A (mm)	B (mm)	C (mm)	D (mm) Plug	D (mm) Socket	E (mm)	F (mm) Plug	F (mm) Socket	G (mm)
9	26.1	20.1	13	11.6	12.9	14	5.5	6.8	8.8
15	31.6	25.6		17.1	18.4	19.5			
21	37.3	31.3		22.8	24.1	25.2			
25	42	36		27.2	28.8	29.9	5.9	7.7	
31	47.8	41.8		32.7	34.5	35.6			
37	53.5	47.5		38.5	40.3	41.4			
51	52	46	14.6	37	38.8	39.9	7.55	9.35	10.4
66	61.5	55.5		46.5	48.3	49.4			

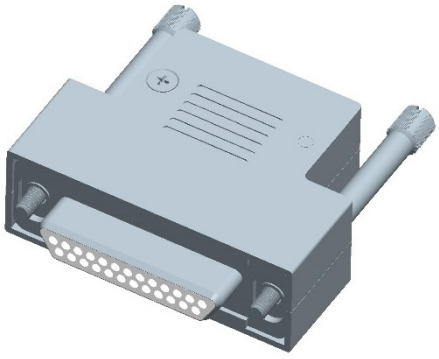
D-type tail cover

D-type tail cover is suitable for ordinary crimping and welding series products, with a two-petal structure, including a built-in clamping plate. The D-type tail cover can also be ordered separately, and the code for separate ordering is shown in the table below.

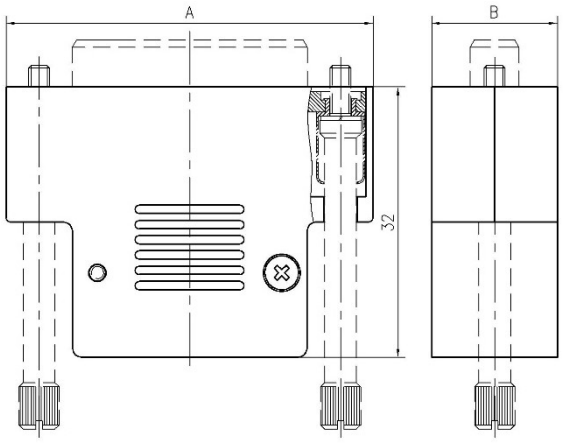
Plug/Socket: J29A-009, 015, 021, 025, 031, 037, 051, 066-960



J29A-XXX-960



Assembly drawing of D clamp and product

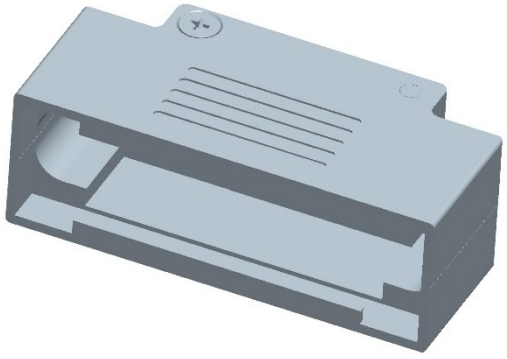


Number of cores	A (mm)	B (mm)
009	27.8	15
015	33.3	
021	28.9	
025	43.8	
031	49.6	
037	55.3	
051	53.8	16.6
066	63.3	

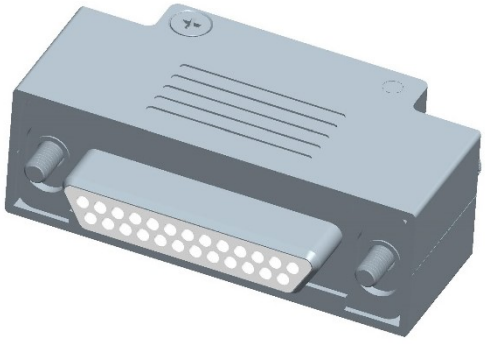
D1-type tail cover

D1-type tail cover is suitable for ordinary crimping series products. D1-type tail cover is of a two-petal structure and does not contain clamping plate. The D1-type tail cover can also be ordered separately, and the code for separate ordering is shown in the table below.

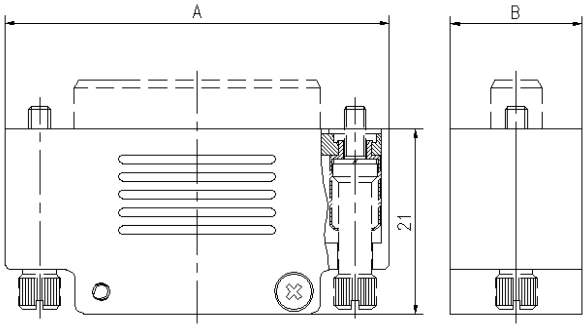
Plug/Socket: J29A-009, 015, 021, 025, 031, 037, 051, 066-961



J29A-XXX-961



Assembly drawing of D1 clamp and product

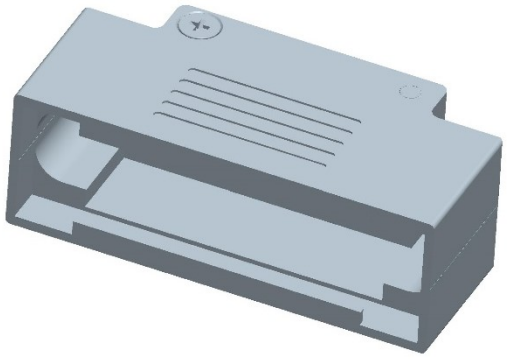


Number of cores	A (mm)	B (mm)
009	27.8	15
015	33.3	
021	28.9	
025	43.8	
031	49.6	
037	55.3	
051	53.8	16.6
066	63.3	

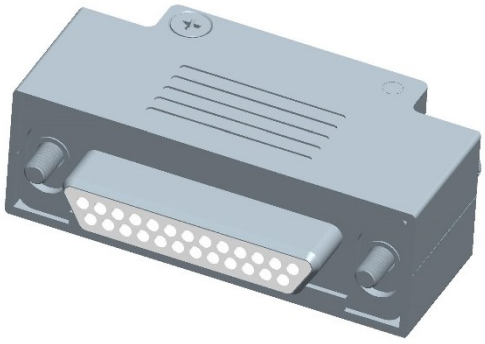
D2-type tail cover

D2-type tail cover is suitable for A1-type crimping and welding series products. The D2-type tail cover is of a two-petal structure and includes a built-in clamping plate. The D2-type tail cover can also be ordered separately, and the code for separate ordering is shown in the table below.

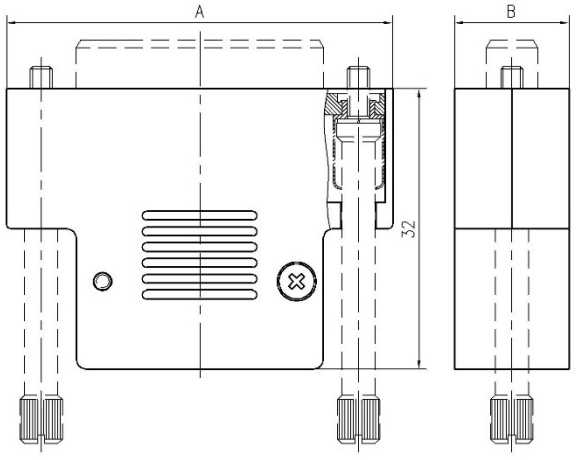
Plug/Socket: J29A-009, 015, 021, 025, 031, 037, 051, 066-962



J29A-XXX-962



Assembly drawing of D2 clamp and product

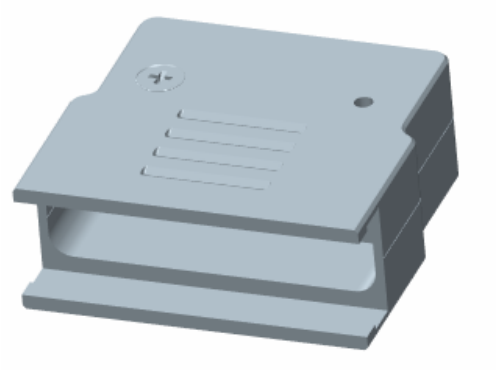


Number of cores	A (mm)	B (mm)
009	27.8	13
015	33.3	
021	28.9	
025	43.8	
031	49.6	
037	55.3	
051	53.8	14.6
066	63.3	

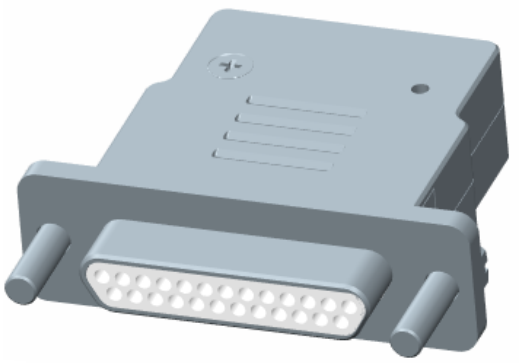
D3-type tail cover

D3-type tail cover is suitable for A2-type crimping and welding series products. The D3-type tail cover is of a two-petal structure and includes a built-in clamping plate. The D3-type tail cover can also be ordered separately, and the code for separate ordering is shown in the table below.

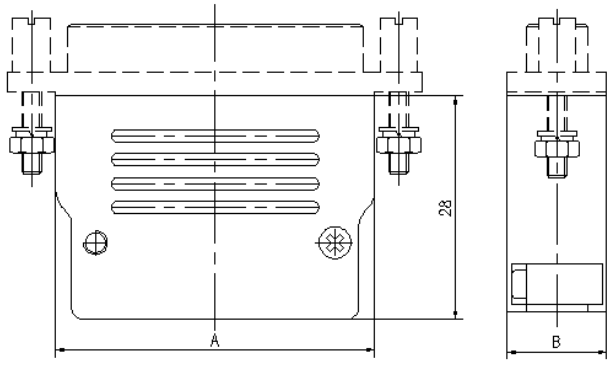
Plug/Socket: J29A-009, 015, 021, 025, 031, 037, 051, 066-963



J29A-XXX-963



Assembly drawing of D3 clamp and product

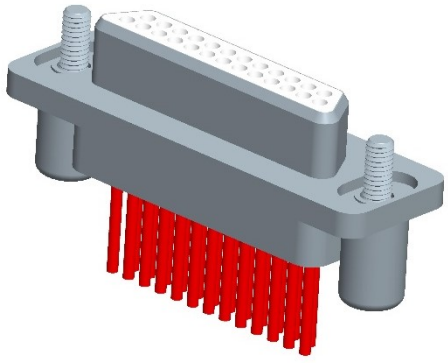
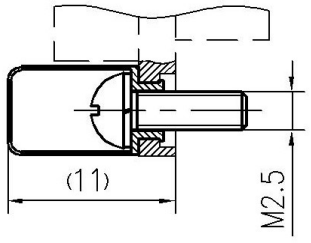


Number of cores	A (mm)	B (mm)
009	14	10.8
015	19.5	
021	25.2	
025	29.9	
031	35.6	
037	41.4	
051	39.9	12.5
066	49.4	

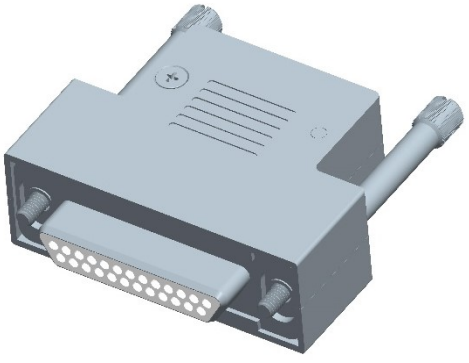
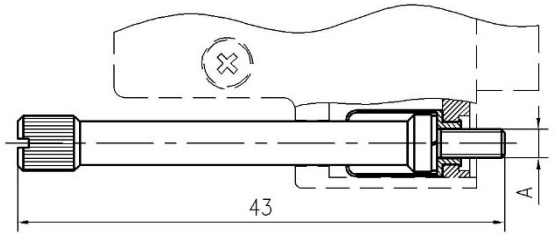
J29A Locking Assembly/J29A Free-end Locking Assembly

The free-end locking assembly should only be combined with J29A products to form a free-end connector, and the locking end butted with it is usually the fixed-end locking assembly.

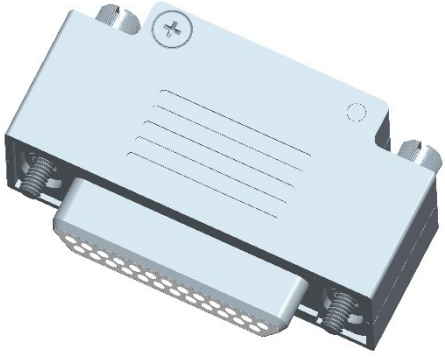
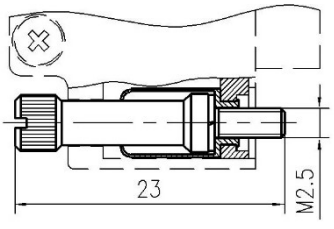
L-type locking assembly

	
J29A free-end locking assembly	Available fixed-end locking assembly
L type	Type P, P1, P3, P4, P5, P8, P9, P11, P12, P13, P14, P15, P16

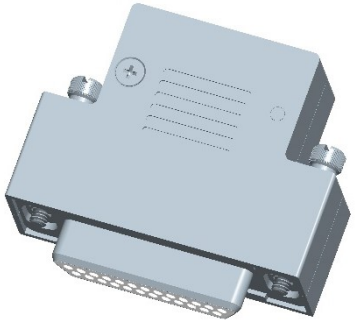
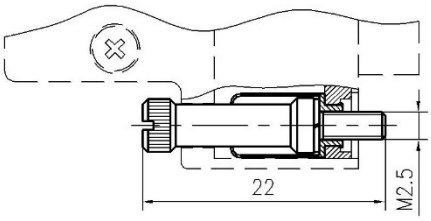
L1, L2-type locking assembly

			
J29A free-end locking assembly	A	Available tail cover	Available fixed-end locking assembly
L1 type	M2.5	D, D1, D2, D3 type	Type P, P1, P3, P4, P5, P8, P9, P11 ~ P16
L2 type	0.099-48UNC-2A		P6

L3-type locking assembly

		
J29A free-end locking assembly	Available tail cover	Available J29A fixed-end locking assembly
L3 type	D, D1, D2 type	Type P, P1, P3, P4, P5, P8, P9, P11 ~ P16

L4-type locking assembly

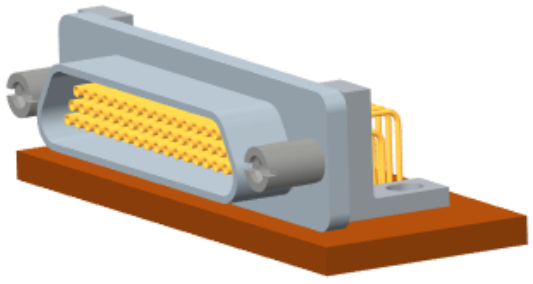
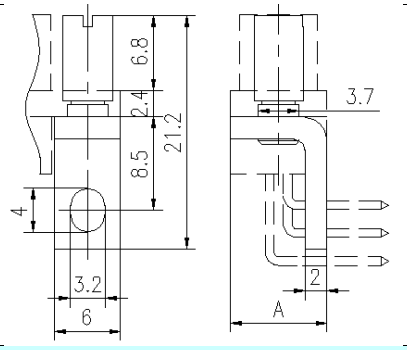
		
J29A free-end locking assembly	Available tail cover	Available fixed-end locking assembly
L4 type	D, D1, D2 type	Type P, P1, P3, P4, P5, P8, P9, P11 ~ P16

J29A Locking Assembly/J29A Fixed-end Locking Assembly

The fixed-end locking assembly is suitable for fixing the connector on a mounting plate or a PCB. Most of the fixed-end locking assemblies can be butt-jointed and locked with the free-end locking assembly; a few of the fixed-end locking assemblies are only applicable to the use occasions where the free-end locking assembly is not locked with it.

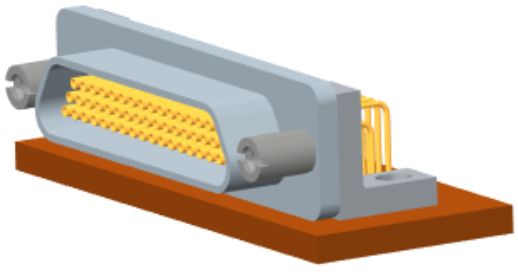
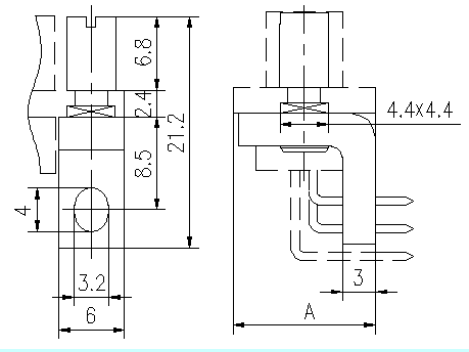
P-type locking assembly

The P-type locking assembly is used for the edge mounting of the bent PCB series products with the housing of "-A" type, and there is no mounting plate.

			
J29A fixed-end locking assembly	A	Remarks	Available free-end locking assembly
P type	8.8	9 ~ 37 cores	Type L, L1, L3, L4
	10.7	51 ~ 66 cores	

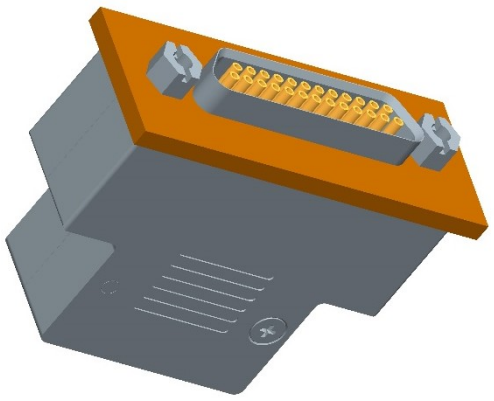
P15-type locking assembly

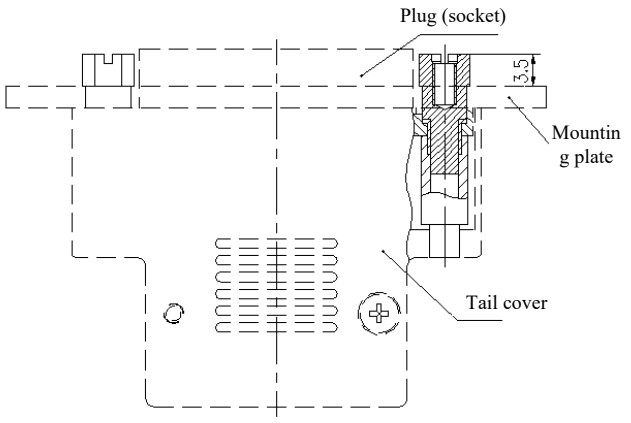
The P15-type locking assembly is only used for the edge mounting of J29A-XXTJW/ZKW/TJWI/ZKWI bent PCB series products, and there is no mounting plate.

			
J29A fixed-end locking assembly	A	Remarks	Available free-end locking assembly
P15-type	13	9 ~ 37 cores	Type L, L1, L3, L4
	14.6	51 ~ 66 cores	

P1-type locking assembly

P1-type locking assembly is mainly used for the rear-plate installation of the crimping and welding series products that need to be equipped with the tail cover, and the thickness of the mounting plate is 2.3mm

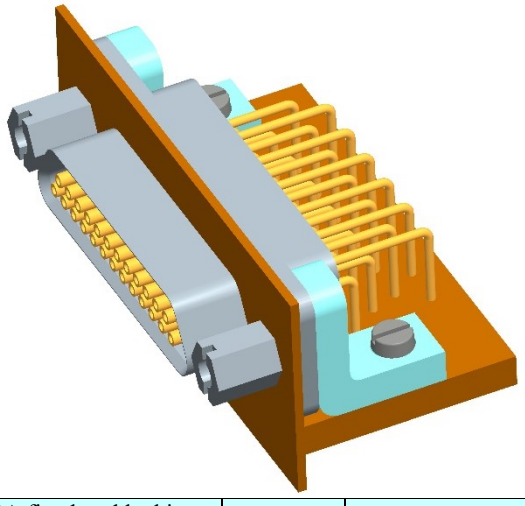


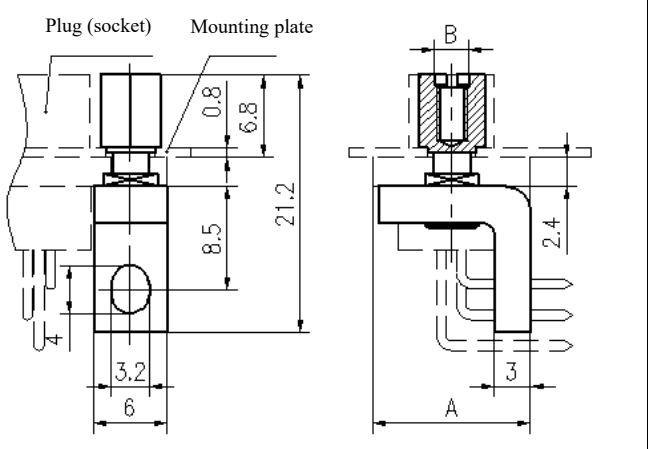


J29A fixed-end locking assembly	Available tail cover	Available free-end locking assembly
P1-type	D, D1, D2 type	Type L, L1, L3, L4

P3, P6 type locking assembly

The P3, P6 type locking assembly is only used for the rear-plate edge mounting of J29A-XXTJW/ZKW/TJWI/ZKWI bent PCB series products, and the thickness of the mounting plate is 0.8mm.





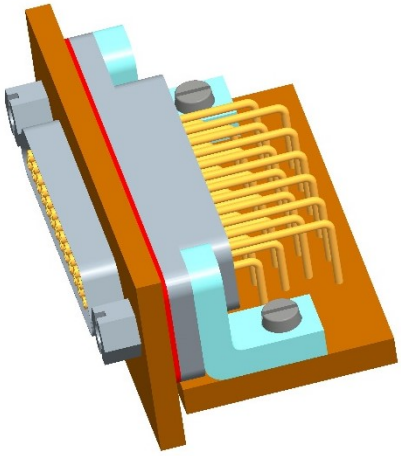
J29A fixed-end locking assembly	A	B	Remarks	Available free-end locking assembly
P3 type (metric thread)	13	M2.5-6H	9 ~ 37 cores	Type L, L1, L3, L4
	14.6	M2.5-6H	51 ~ 66 cores	
P6 type (inch thread)	13	0.099-48UNC-2B	9 ~ 37 cores	L2 type
	14.6	0.099-48UNC-2B	51 ~ 66 cores	

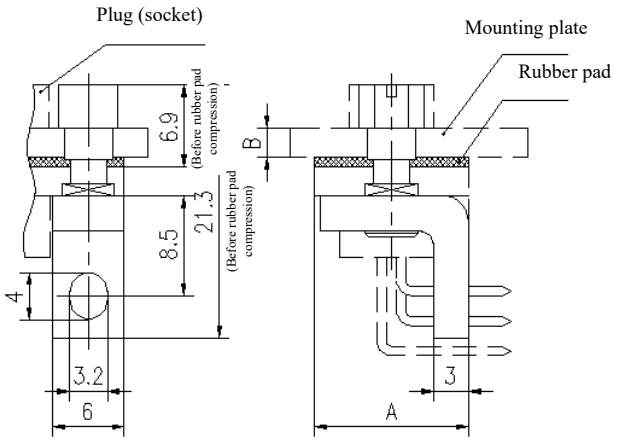
P4, P13 type locking assembly

The P4 type locking assembly is only used for the rear-plate edge mounting of J29A-XXTJW/ZKW/TJWI/ZKWI bent PCB series products, and the thickness of the mounting plate is 2.5mm.

The P13 type locking assembly is only used for the rear-plate edge mounting of J29A-XXTJW/ZKW/TJWI/ZKWI bent PCB series products, and the thickness of the mounting plate is 2mm.

The P4 and P13 type locking assemblies are provided with rubber pads.

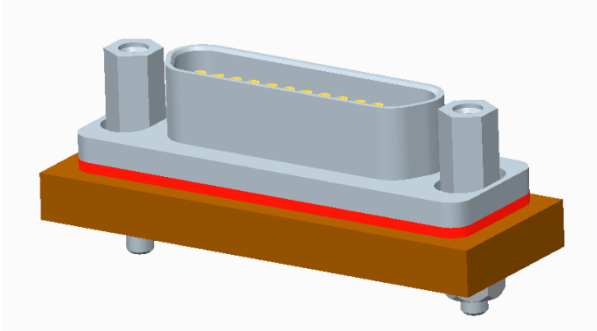


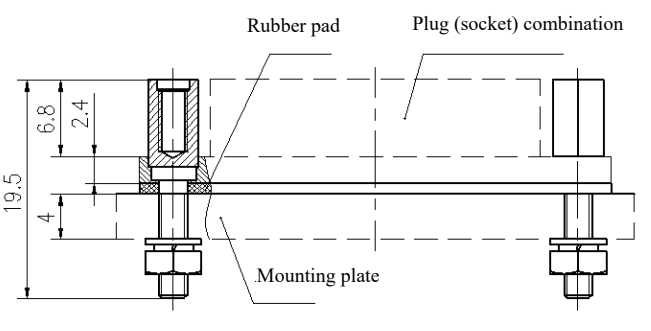


J29A fixed-end locking assembly	A	B	Remarks	Available free-end locking assembly
P4 type	13	2.5	9 ~ 37 cores	Type L, L1, L3, L4
	14.6		51 ~ 66 cores	
P13-type	13	2	9 ~ 37 cores	Type L, L1, L3, L4
	14.6		51 ~ 66 cores	

P5-type locking assembly

The P5 type locking assembly is used for the front-plate installation of the J29M sealed product. The thickness of the mounting plate is ≤ 4 mm, with a conductive rubber pad.

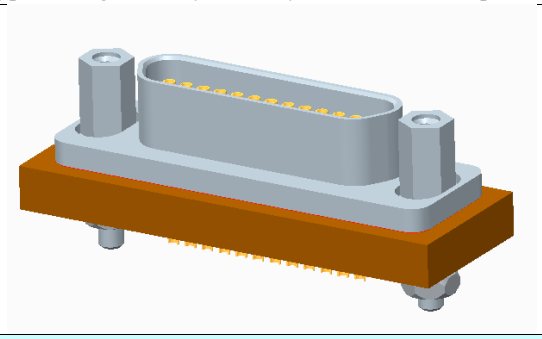


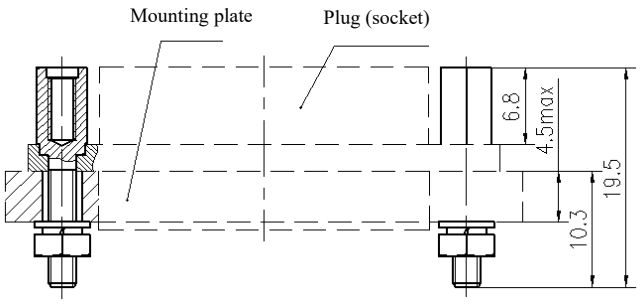


J29A fixed-end locking assembly	Available free-end locking assembly
P5 type	Type L, L1, L3, L4

P8-type locking assembly

P8-type locking assembly is mainly used for the front-plate installation, and the thickness of the mounting plate is ≤ 4.5mm.



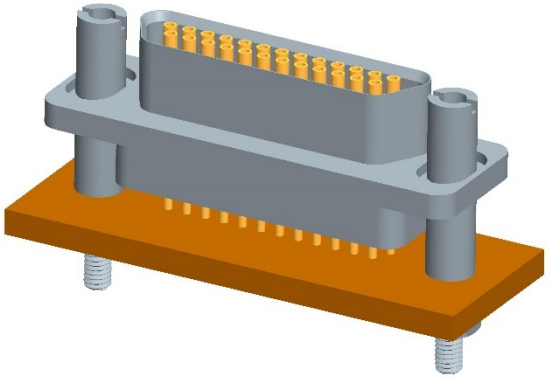


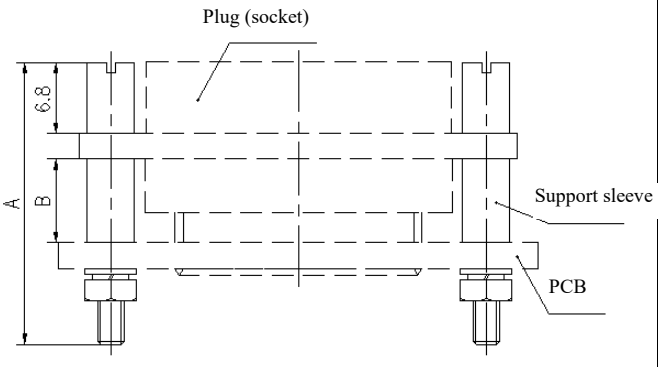
J29A fixed-end locking assembly	Available free-end locking assembly
P8 type	Type L, L1, L3, L4

P9, P11 type locking assembly

P9 type locking assembly is suitable for in-line PCB series products, with PCB thickness ≤ 2.5mm, 8mm long support sleeve and no mounting plate.

P11 locking assembly is suitable for in-line PCB series products, with PCB 2.5mm ~ 3.5mm, 7.2mm long support sleeve and no mounting plate.

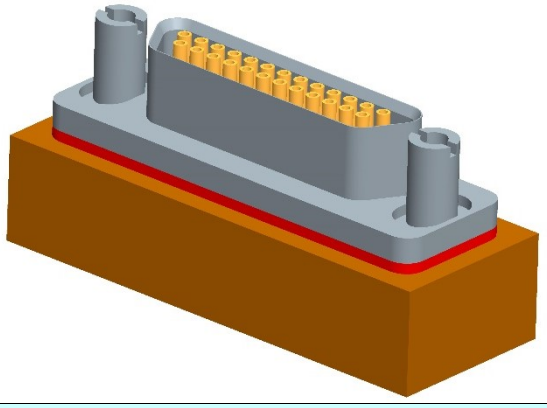


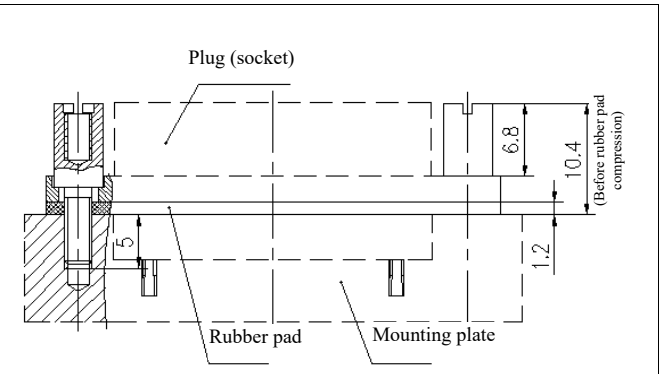


J29A fixed-end locking assembly	A	B	Available free-end locking assembly
P9 type	27	8	Type L, L1, L3, L4
P11 type	24	7.2	Type L, L1, L3, L4

P12-type locking assembly

P12-type locking assembly is mainly used for front-plate installation, with interface sealing function and thread depth ≥ 5 mm.



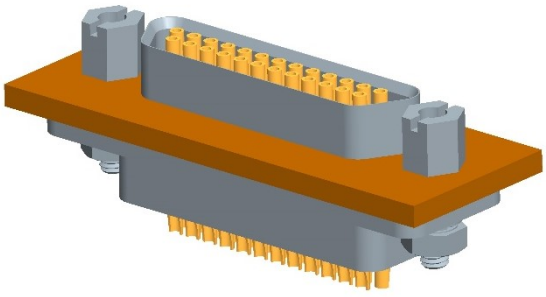


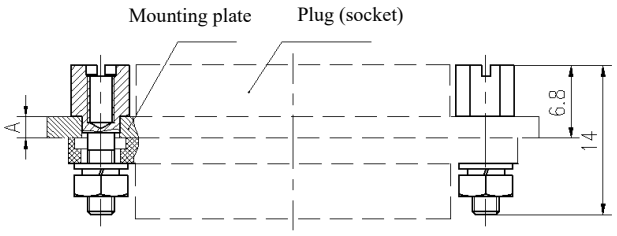
J29A fixed-end locking assembly	Available free-end locking assembly
P12 type	Type L, L1, L3, L4

P14, P16 type locking assembly

P14-type locking assembly is used for the rear-plate installation of the crimping and welding series products, and the thickness of the mounting plate is 2mm ~ 2.5mm

P16-type locking assembly is used for the rear-plate installation of the crimping and welding series products, and the thickness of the mounting plate is 1mm ~ 1.5mm

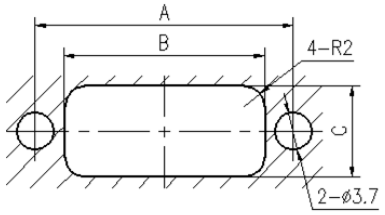




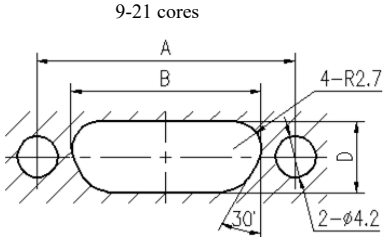
J29A fixed-end locking assembly	A	Available free-end locking assembly
P14-type	2 ~ 2.5	Type L, L1, L3, L4
P16-type	1 ~ 1.5	L2 type

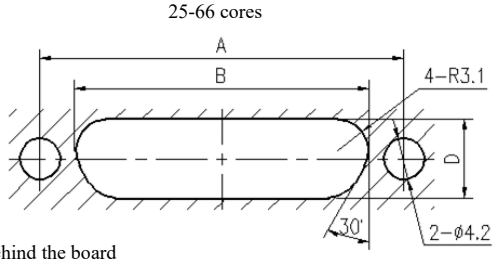
Opening size of J29A mounting plate

J29A-TJ/ZK; J29A-TJH/ZKH; J29A-TJ/ZK-A; J29A-TJH/ZKH-A; J29A-TJ/ZK-A1; J29A-TJH/ZKH-A1; J29A-TJH/ZKH-A2; J29AM- TJ/ZK; J29AM- TJH/ZKH



Installed in front of the board





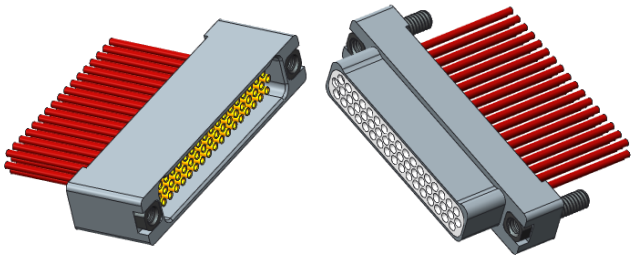
Installed behind the board

Hole size for installation in front of the board				Hole size for installation behind the board			
Number of contact cores	A	B	C	Number of contact cores	A	B	D
9	20.1	14.4	9	9	20.1	13.3	7
15	25.6	19.9		15	25.6	18.8	
21	31.3	17.9		21	31.3	24.5	
25	36	20.5		25	36	29.2	7.9
31	41.8	24.3		31	41.8	35	
37	47.5	28.1	10.9	37	47.5	40.7	
51	46	26.9		51	46	39.2	9.6
66	55.5	33.4		66	55.5	48.7	

Note: As J29M-ZK and J29M-ZKH are sealed products, although the mounting plate holes can be installed as shown above, the sealing effect may be lost because the mounting plate is a through-hole plate. Therefore, the mounting plate holes of these products should be blind threaded holes when they are installed in front of the board.

J64 Series Micro-rectangular Electrical Connector

Product Overview



- Comply with MIL-C-83513 General Specification for Micro-rectangular Electrical Connectors with Housing Positioning
- Adopt stranded elastic micro-pins (commonly known as twist pins)
- Contact spacing is 1 mm
- Number of cores: nine specifications of 10, 10, 16, 22, 25, 31, 37, 52, 64 and 70 cores
- The plug is installed with the pin and the socket is installed with the Jack
- The conventionally mated connectors at the free end and the fixed end are screwed and butted by the locking screw and the connecting nut
- Tail termination includes crimping wire, PCB, surface-mount and other forms
- The sectional area of the suitable crimping wire is generally 0.1mm^2
- It is suitable for military systems and other electronic equipment systems with lightweight and miniaturization requirements such as aerospace, aviation and weapons
- Compared with J63A, the product with the same specifications is 1mm larger in appearance, larger in rated current and better in installation operation than J63A; compared with J30J, the product has higher mechanical strength, smaller size, lighter weight and lower cost, and meets the development requirements of miniaturization and lightweight.

Product Performance

Mechanical Properties

Housing	Aluminum alloy
Plating	Nickel plating
Insulator	Thermoplastic
Mechanical life	500 plugging and unplugging cycles
Contact	Gold-plated copper alloy, crimping type, PCB type, surface-mount type
Vibration	10Hz ~ 2000 Hz, 196m/s^2

Electrical Performance

Contact rated current	2A
Contact resistance	≤ 10mΩ
Insulation resistance	(under normal conditions) ≥ 5000 MΩ Under wet conditions ≥ 1 MΩ
Withstand voltage	(under normal atmospheric conditions) 600Vrms Under low pressure (4.39 kPa), 150Vrms

Environmental Performance

Temperature range	-55 ℃ ~ +125 ℃
Salt spray	48h
Relative humidity	98% at 40℃
Liquid impregnation	Hydraulic fluid, diluent, refrigerant
Working air pressure	101.33KPa ~ 4.39KPa

Model Designation

Basic Serial Number	J64	S	-	1	-	10	-	16	-	JC	(Additional Information)
Product Category	No description - Nickel-plated aluminum alloy S - Stainless steel passivation M - Glue-sealed										
Type	1 - Free-end crimping plug 3 - Horizontally installed crimping plug 5 - Vertically installed crimping plug E - Bent PCB-type plug G - In-line PCB-type plug	2 - Free-end crimping socket 4 - Horizontally installed crimping socket 6 - Vertically installed crimping socket F - Bent PCB-type socket H - In-line PCB-type socket									
Number of contacts	10; 16; 22; 25; 31; 37; 52; 64; 70 (The number of contacts is represented by 2 digits, and the corresponding spectrum chart is detailed in "Contact Arrangement")										
Contact type	13 - In-line PCB type pin, lead length 2.8mm; 14 - In-line PCB type pin, lead length 3.6mm; 15 - In-line PCB type pin, lead length 4.4mm; 16 - Crimping pin; 33 - Bent PCB type pin, lead length 2.8mm; 34 - Bent PCB type pin, lead length 3.6mm; 35 - Bent PCB type pin, lead length 4.4mm; PP - The plug is correspondingly connected with the plug; PS - The plug is correspondingly connected with the socket;	23 - In-line PCB type Jack, lead length 2.8mm; 24 - In-line PCB type Jack, lead length 3.6mm; 25 - In-line PCB type Jack, lead length 4.4mm; 26 - Crimping Jack; 43 - Bent PCB type Jack, lead length 2.8mm; 44 - Bent PCB type Jack, lead length 3.6mm; 45 - Bent PCB type Jack, lead length 4.4mm; SS - The socket is correspondingly connected with the socket									
Locking assembly type	JC - Slotted locking screw; JC1 - Hexagon socket locking screw; TH-connecting nut; 00 - No locking part;										
Additional Information	Crimping connectors should be provided with additional information on the wire, such as wire color, length, specification, etc., as shown in Table 1										

Table 1 Wire naming rules

No.	Classification feature	Classification content	Mark code
1	Wire color	R: red; W: white; M: purple; G: green; A: gray; U: blue; Y: yellow; B: black; N: orange;	R, W, M, G, A, U, Y, B, N
2	L	Connector with wires	L
3	Wire length	200, wire length value in mm	200
4	Wire specification	A: 0.1 mm^2 AFR-250, etc.	A, etc.
5	Additional requirements	No indication: no additional requirements 1: Wire jacket nylon sleeve 2: Wire jacket anti-wave sleeve, etc.	1, 2, etc.

Example of model designation: J64-1-10-16-JC (RL200A): J64 housing, nickel-plated aluminum alloy, free-end crimping plug, 10 cores, product with locking screw JC. (Additional information: 200 mm red AFR-250 wires with a sectional area of 0.1 mm^2 should be crimped to each hole.)

Classification Table of J64 Series

Table 2 Classification of J64 Series

Connector Type	Basic Identification	Structural Features
Crimping type	Plug J64-1-XX-16-JC(JC1)	With locking screw, crimping pin
	Socket J64-2-XX-26-JC(JC1)	With locking screw, crimping Jack
	Plug J64-3-XX-16-TH	With connecting nut, crimping pin, horizontal mounting
	Socket J64-4-XX-26-TH	With connecting nut, crimping Jack, horizontal mounting
	Plug J64-5-XX-16-TH	With connecting nut, crimping pin, vertical mounting
	Socket J64-6-XX-26-TH	With connecting nut, crimping Jack, vertical mounting
In-line PCB type	Plug J64-G-XX-13-TH	With connecting nut, in-line PCB type pin, vertical mounting, lead length 2.8mm
	Socket J64-H-XX-23-TH	With connecting nut, in-line PCB type Jack, vertical mounting, lead length 2.8mm
	Plug J64-G-XX-14-TH	With connecting nut, in-line PCB type pin, vertical mounting, lead length 3.6mm
	Socket J64-H-XX-24-TH	With connecting nut, in-line PCB type Jack, vertical mounting, lead length 3.6mm
	Plug J64-G-XX-15-TH	With connecting nut, in-line PCB type pin, vertical mounting, lead length 4.4mm
	Socket J64-H-XX-25-TH	With connecting nut, in-line PCB type Jack, vertical mounting, lead length 4.4mm
Bent PCB type	Plug J64-E-XX-33-TH	With connecting nut, bent PCB type pin, horizontal mounting, lead length 2.8mm
	Socket J64-F-XX-43-TH	With connecting nut, bent PCB type Jack, horizontal mounting, lead length 2.8mm
	Plug J64-E-XX-34-TH	With connecting nut, bent PCB type pin, horizontal mounting, lead length 3.6mm
	Socket J64-F-XX-44-TH	With connecting nut, bent PCB type Jack, horizontal mounting, lead length 3.6mm
	Plug J64-E-XX-35-TH	With connecting nut, bent PCB type pin, horizontal mounting, lead length 4.4mm
	Socket J64-F-XX-45-TH	With connecting nut, bent PCB type Jack, horizontal mounting, lead length 4.4mm

Instructions for User Selection

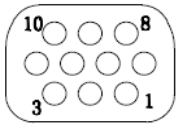
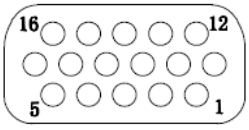
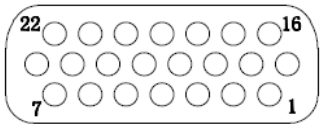
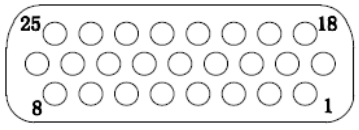
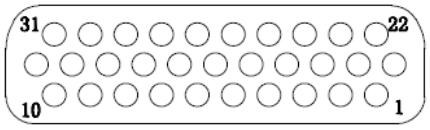
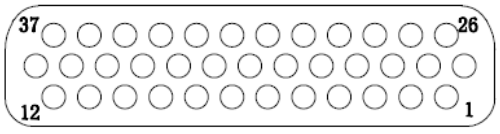
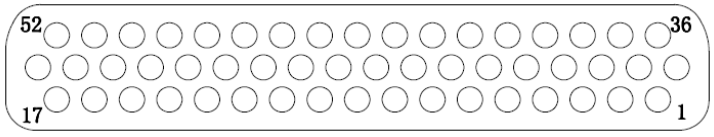
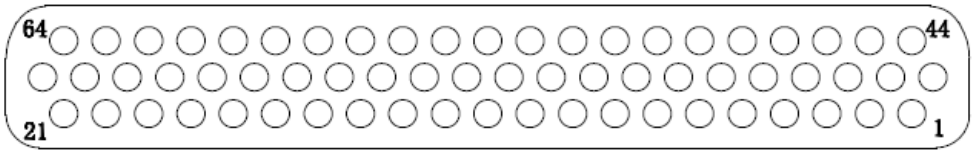
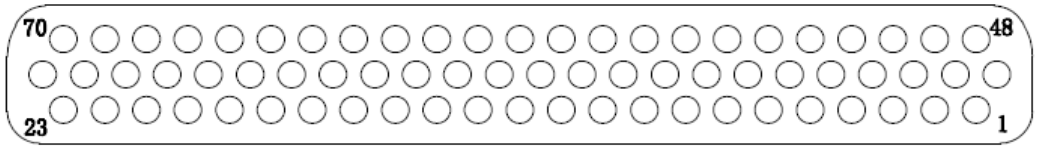
J64 series products are screwed by threads, and the process of plugging and unplugging should be gentle, without impact on the product, which is conducive to protecting the product and peripheral components. Therefore, in general, when the mating connector is selected, one end shall be provided with connecting nuts (TH), and the other end shall be provided with locking screws (JC, JC1). In addition, the following matters should be known when selecting J64 products:

1. Crimping connectors are delivered with wires, and the user shall confirm the specification, color and length of the wires when selecting them. See Table 1 for the naming rules of the wires;

2. When the plug is connected with the socket, it is necessary to alternately screw the locking screws at both ends while inserting, and it is not allowed to insert forcefully without screwing the locking screws, so as not to damage the product;

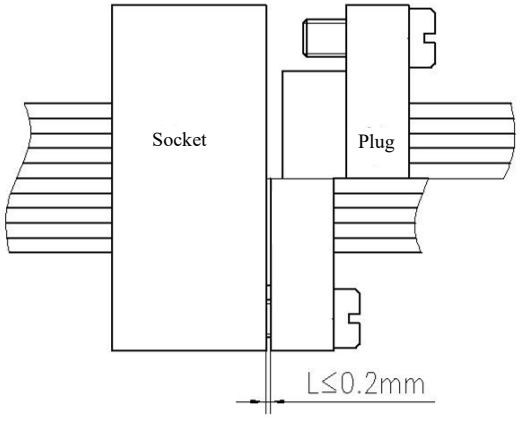
3. If other forms of products are ordered, please contact our technical staff to clarify the product model.

J64 Series Contact Arrangement (View of Pin-mounted Insulator Insertion Surface)

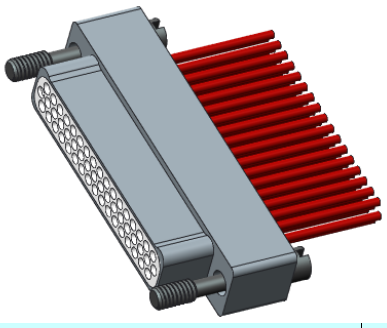
10 cores		16 cores	
22 cores		25 cores	
31 cores		37 cores	
52 cores			
64 cores			
70 cores			

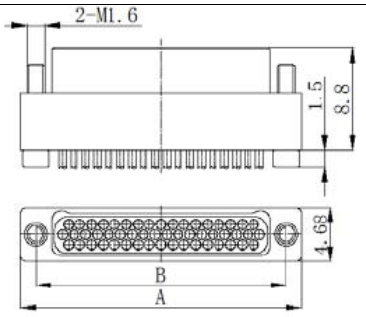
Overall and Installation Dimensions

[Insertion Dimension of Plug and Socket]

When the electrical connector is completely inserted, the clearance between the plug flange face and the end face of the socket housing shall not be greater than 0.2 mm.


[J64-1-XX-16-JC crimping plug with locking screws]





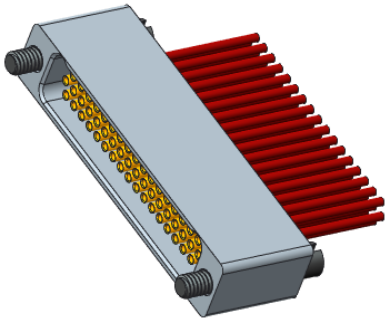
Number of cores	A	B
10	10.25	7.79
16	12.25	9.79
22	14.25	11.79
25	15.25	12.79
31	17.25	14.79
37	19.25	16.79
52	24.25	21.79
64	28.25	25.79
70	30.25	27.79

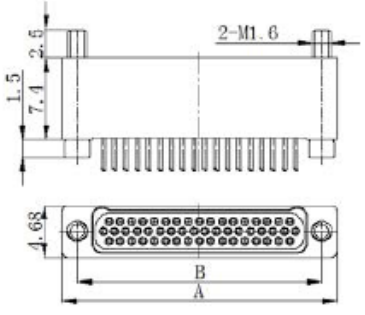
Suitable for the free-end connector, not mounted, and butted with the socket with connecting nuts;

Locking parts include: JC slotted locking screw;

JC1 hexagon socket locking assembly.

[J64-2-XX-26-JC crimping socket with locking screws]





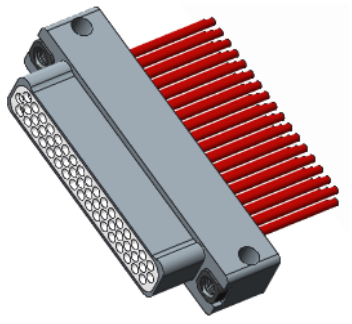
Number of cores	A	B
10	10.25	7.79
16	12.25	9.79
22	14.25	11.79
25	15.25	12.79
31	17.25	14.79
37	19.25	16.79
52	24.25	21.79
64	28.25	25.79
70	30.25	27.79

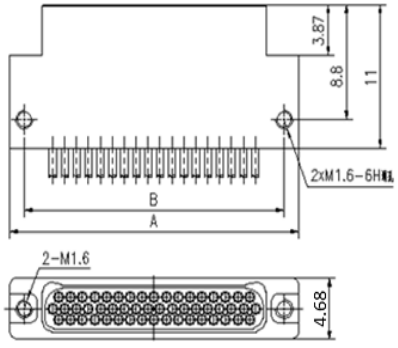
Suitable for the free-end connector, not mounted, and butted with the plug with connecting nuts;

Locking parts include: JC slotted locking screw;

JC1 hexagon socket locking assembly.

[J64-3-XX-16-TH horizontally-mounted crimping plug with connecting nuts]

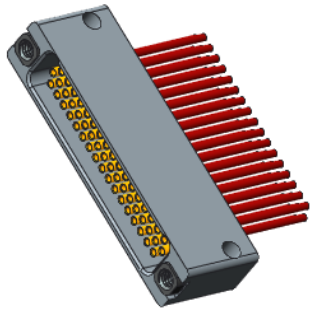


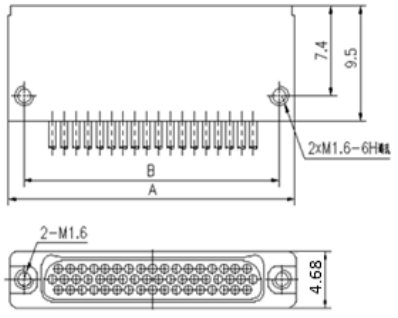


Number of cores	A	B
10	10.25	7.79
16	12.25	9.79
22	14.25	11.79
25	15.25	12.79
31	17.25	14.79
37	19.25	16.79
52	24.25	21.79
64	28.25	25.79
70	30.25	27.79

Suitable for the fixed-end connector, horizontally mounted, and butted with the socket with locking screws.

[J64-4-XX-26-TH horizontally-mounted crimping socket with connecting nuts]

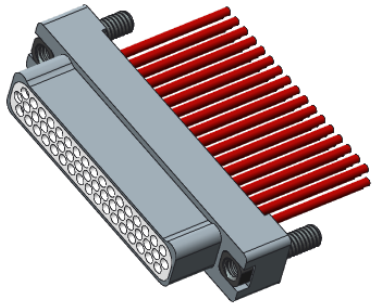


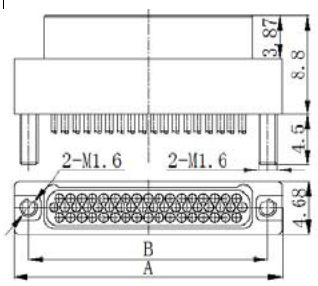


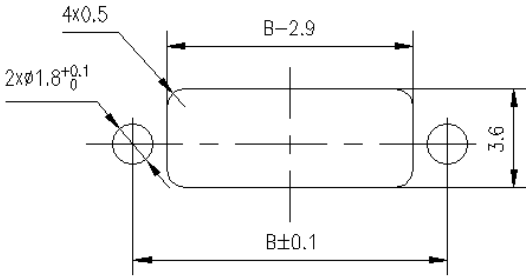
Number of cores	A	B
10	10.25	7.79
16	12.25	9.79
22	14.25	11.79
25	15.25	12.79
31	17.25	14.79
37	19.25	16.79
52	24.25	21.79
64	28.25	25.79
70	30.25	27.79

Suitable for the fixed-end connector, horizontally mounted, and butted with the plug with locking screws.

[J64-5-XX-16-TH vertically-mounted crimping plug with connecting nuts]



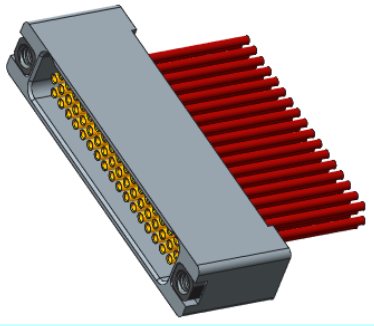


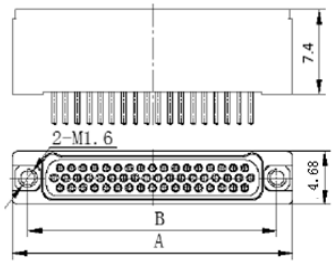


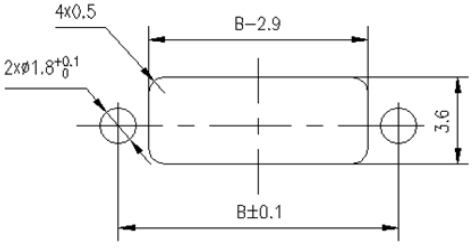
Number of cores	A	B
10	10.25	7.79
16	12.25	9.79
22	14.25	11.79
25	15.25	12.79
31	17.25	14.79
37	19.25	16.79
52	24.25	21.79
64	28.25	25.79
70	30.25	27.79

Suitable for the fixed-end connector, vertically mounted, and butted with the socket with locking screws.

[J64-6-XX-26-TH vertically-mounted crimping socket with connecting nuts]



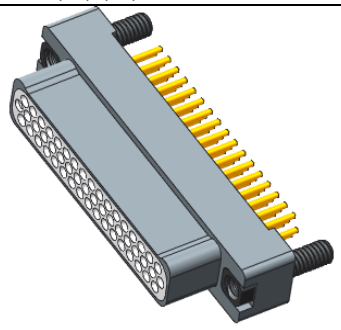


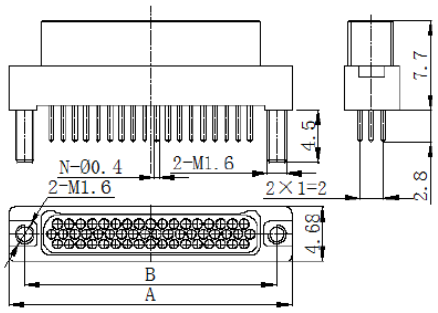


Number of cores	A	B
10	10.25	7.79
16	12.25	9.79
22	14.25	11.79
25	15.25	12.79
31	17.25	14.79
37	19.25	16.79
52	24.25	21.79
64	28.25	25.79
70	30.25	27.79

Suitable for the fixed-end connector, vertically mounted, and butted with the plug with locking screws.

[J64-G-XX-13 (14) (15) - TH in-line PCB-end plug]





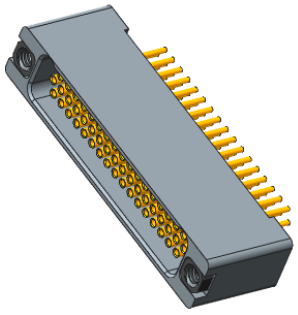
Number of cores	A	B
10	10.25	7.79
16	12.25	9.79
22	14.25	11.79
25	15.25	12.79
31	17.25	14.79
37	19.25	16.79
52	24.25	21.79
64	28.25	25.79
70	30.25	27.79

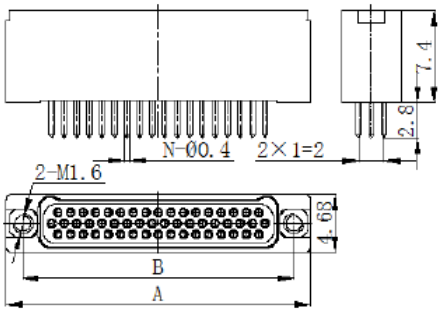
The lead has three length specifications: the termination form 13 represents the lead length of 2.8 mm;

The termination form 14 represents the lead length of 3.6 mm;

The termination form 15 represents the lead length of 4.4 mm;

[J64-H-XX-23 (24) (25) - TH in-line PCB-end socket]





Number of cores	A	B
10	10.25	7.79
16	12.25	9.79
22	14.25	11.79
25	15.25	12.79
31	17.25	14.79
37	19.25	16.79
52	24.25	21.79
64	28.25	25.79
70	30.25	27.79

The lead has three length specifications: the termination form 23 represents the lead length of 2.8 mm;

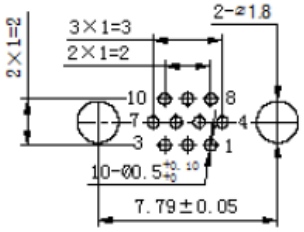
The termination form 24 represents the lead length of 3.6 mm;

The termination form 25 represents the lead length of 4.4 mm;

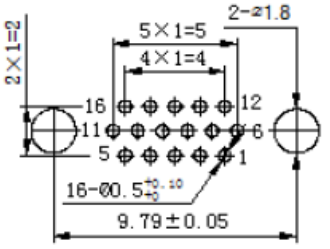
Hole size of J64 series in-line PCB plug (grid spacing 1 × 1): J64-G-XX-13 (14) (15)-TH;

The hole size of the pin is $\Phi 0.5^{+0.1}_{0}$, and the size of the mounting hole is $\Phi 1.8^{+0.12}_{0}$ (viewed from the threading direction of the PCB contact).

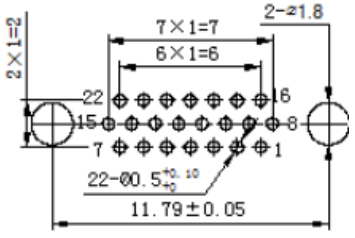
J64-G-10-13 (14) (15)-TH



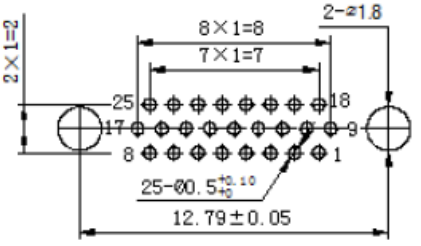
J64-G-16-13 (14) (15)-TH



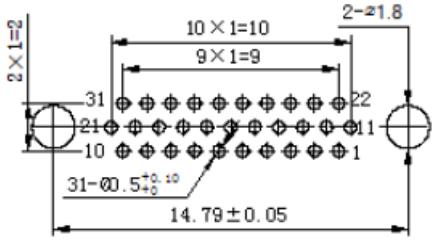
J64-G-22-13 (14) (15)-TH



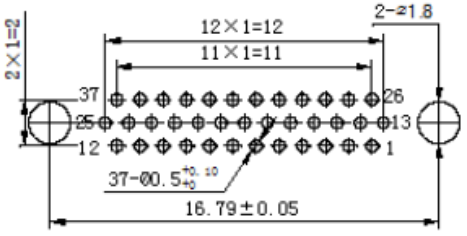
J64-G-25-13 (14) (15)-TH



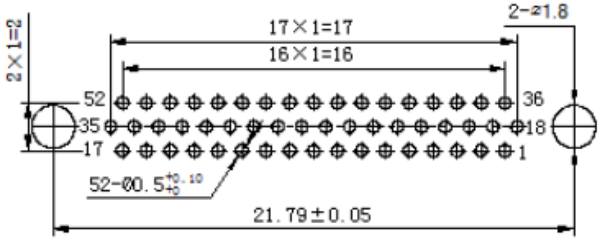
J64-G-31-13 (14) (15)-TH



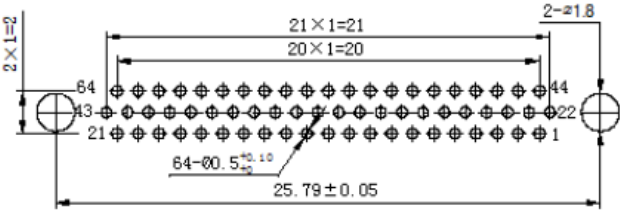
J64-G-37-13 (14) (15)-TH



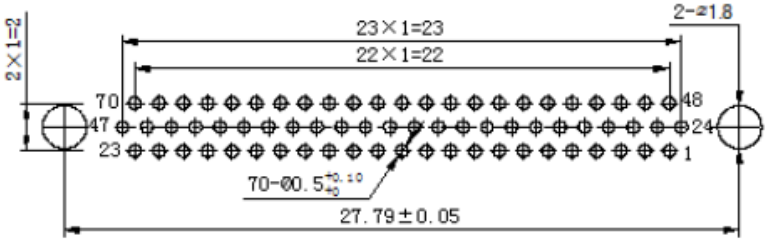
J64-G-52-13 (14) (15)-TH



J64-G-64-13 (14) (15)-TH



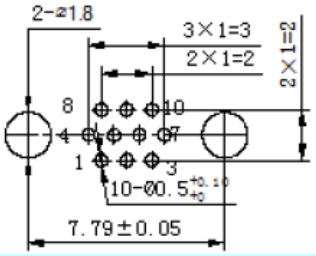
J64-G-70-13 (14) (15)-TH



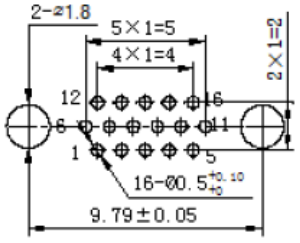
Hole size of J64 series in-line PCB socket grid spacing 1 × 1): J64-H-XX-13 (14) (15)-TH;

The hole size of the pin is $\Phi 0.5_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 1.8_{0}^{+0.12}$ (viewed from the threading direction of the PCB contact).

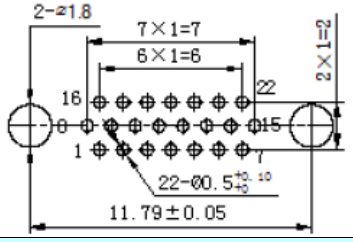
J64-H-10-13 (14) (15)-TH



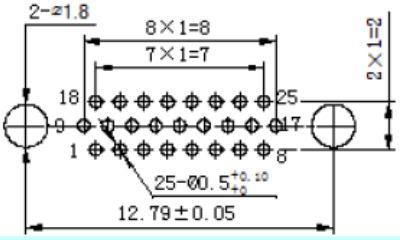
J64-H-16-13 (14) (15)-TH



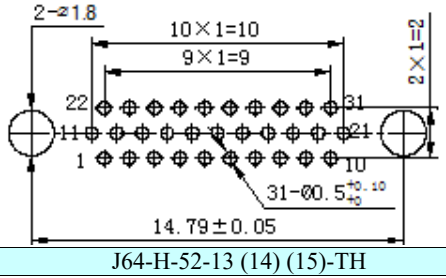
J64-H-22-13 (14) (15)-TH



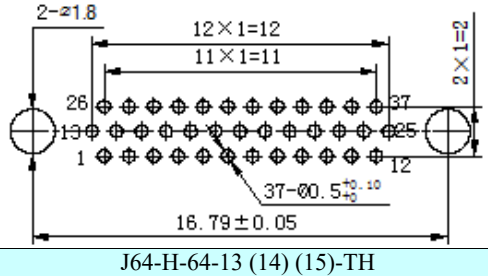
J64-H-25-13 (14) (15)-TH



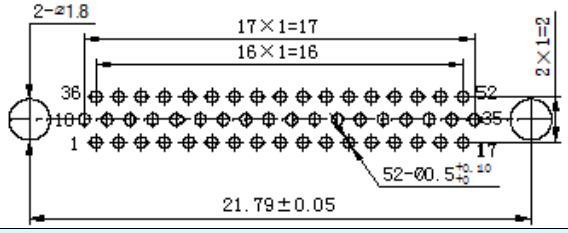
J64-H-31-13 (14) (15)-TH



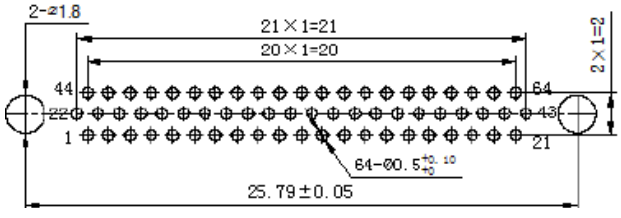
J64-H-37-13 (14) (15)-TH



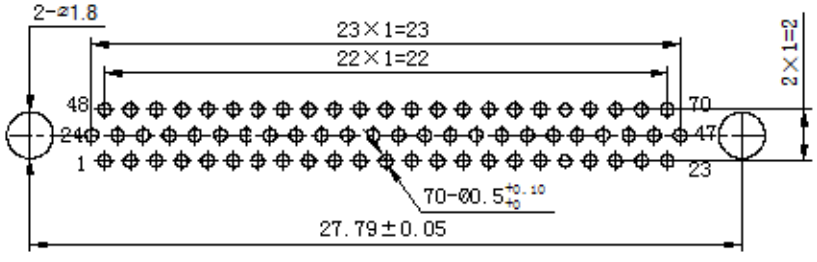
J64-H-52-13 (14) (15)-TH



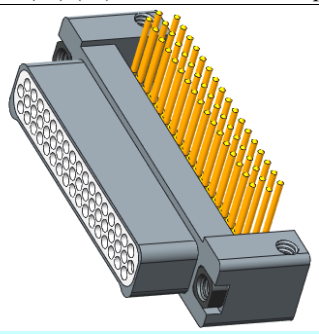
J64-H-64-13 (14) (15)-TH

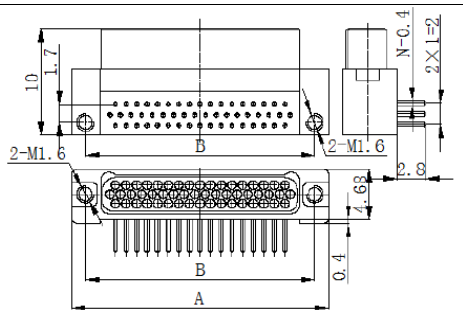


J64-H-70-13 (14) (15)-TH



[J64-E-XX-33 (34) (35) - TH bent PCB-end plug]

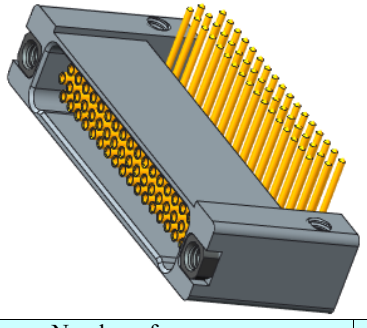


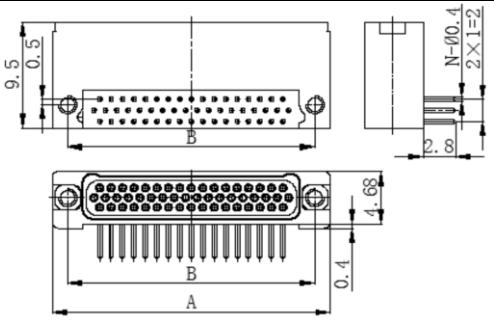


Number of cores	A	B
10	10.25	7.79
16	12.25	9.79
22	14.25	11.79
25	15.25	12.79
31	17.25	14.79
37	19.25	16.79
52	24.25	21.79
64	28.25	25.79
70	30.25	27.79

The lead has three length specifications: the termination form 33 represents the lead length of 2.8 mm;
The termination form 34 represents the lead length of 3.6 mm;
The termination form 35 represents the lead length of 4.4 mm;

[J64-F-XX-43 (44) (45) - TH bent PCB-end socket]





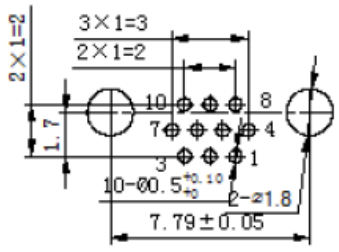
Number of cores	A	B
10	10.25	7.79
16	12.25	9.79
22	14.25	11.79
25	15.25	12.79
31	17.25	14.79
37	19.25	16.79
52	24.25	21.79
64	28.25	25.79
70	30.25	27.79

The lead has three length specifications: the termination form 43 represents the lead length of 2.8 mm;
The termination form 44 represents the lead length of 3.6 mm;
The termination form 45 represents the lead length of 4.4 mm;

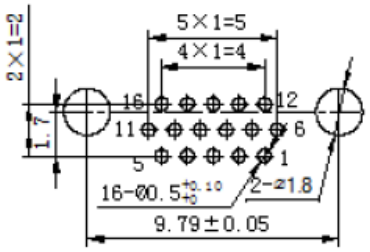
Hole size of J64 series bent PCB plug (grid spacing 1 × 1): J64-E-XX-33 (34) (35)-TH;

The hole size of the pin is $\Phi 0.5_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 1.8_{0}^{+0.12}$ (viewed from the threading direction of the PCB contact).

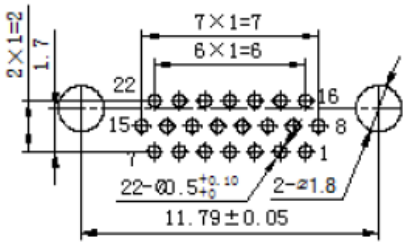
J64-E-10-33 (34) (35)-TH



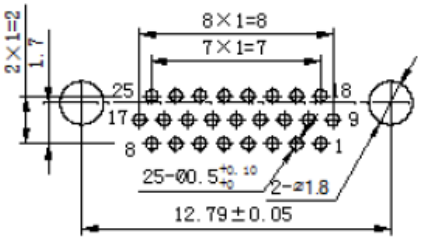
J64-E-16-33 (34) (35)-TH



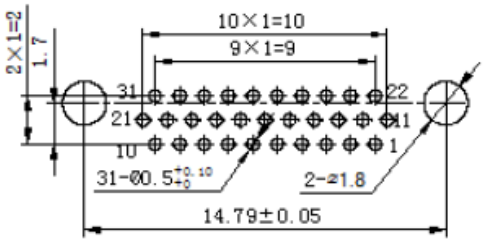
J64-E-22-33 (34) (35)-TH



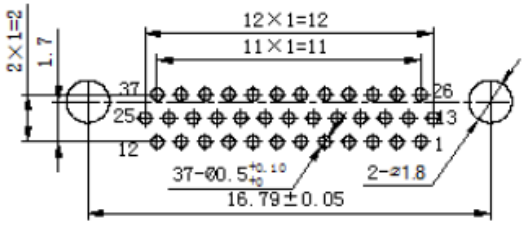
J64-E-25-33 (34) (35)-TH



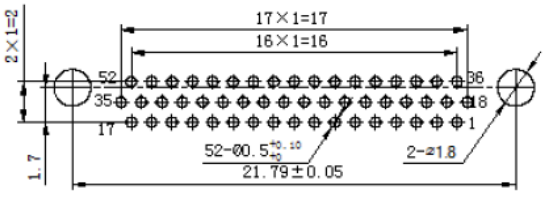
J64-E-31-33 (34) (35)-TH



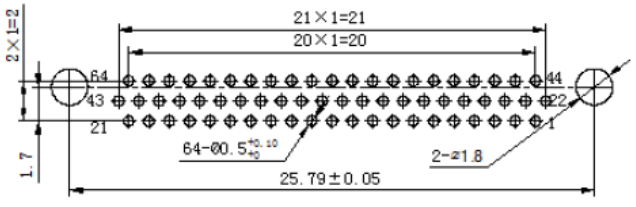
J64-E-37-33 (34) (35)-TH



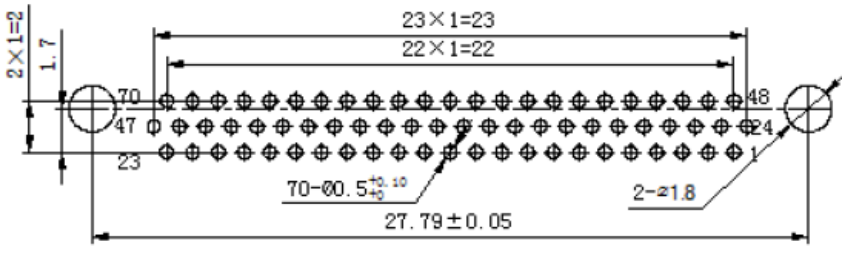
J64-E-52-33 (34) (35)-TH



J64-E-64-33 (34) (35)-TH



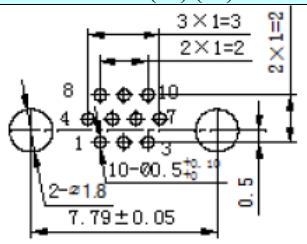
J64-E-70-33 (34) (35)-TH



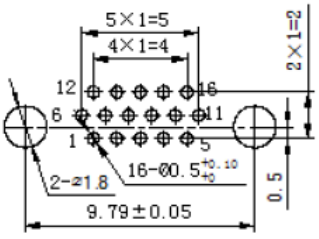
Hole size of J64 series bent PCB socket grid spacing 1 × 1): J64-F-XX-43 (44) (45)-TH;

The hole size of the pin is $\Phi 0.5_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 1.8_{0}^{+0.12}$ (viewed from the threading direction of the PCB contact).

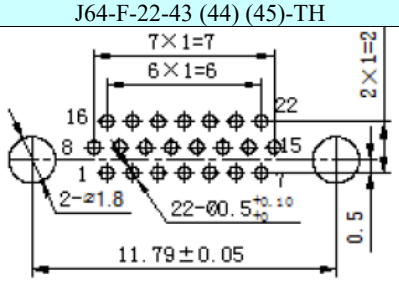
J64-F-10-43 (44) (45)-TH



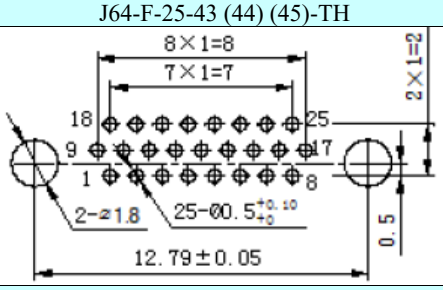
J64-F-16-43 (44) (45)-TH



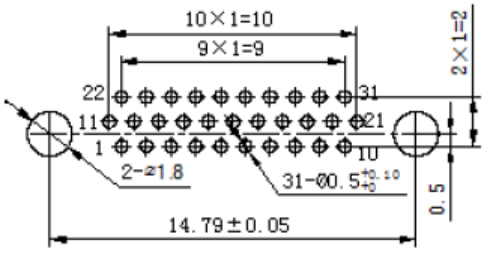
J64-F-22-43 (44) (45)-TH



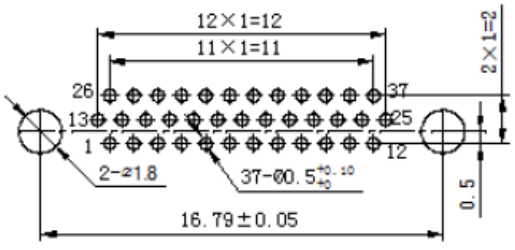
J64-F-25-43 (44) (45)-TH



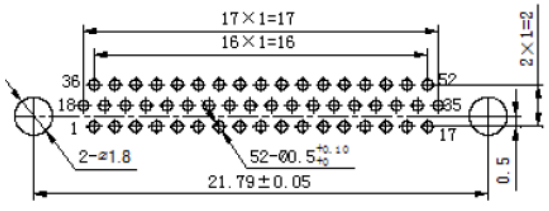
J64-F-31-43 (44) (45)-TH



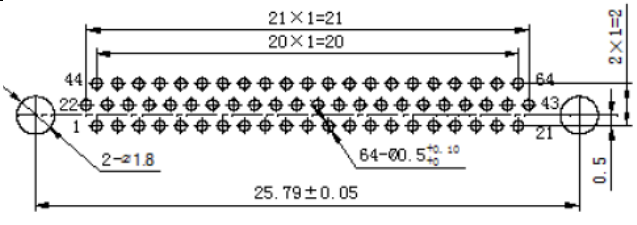
J64-F-37-43 (44) (45)-TH



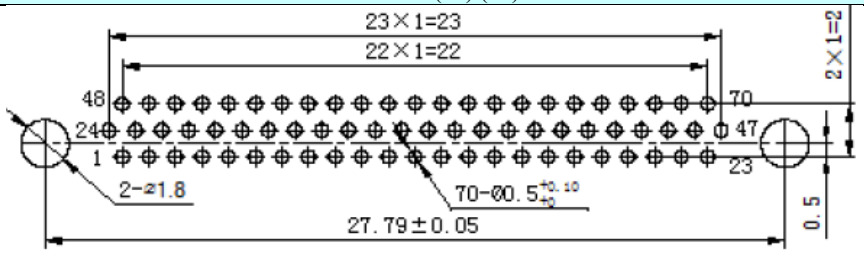
J64-F-52-43 (44) (45)-TH



J64-F-64-43 (44) (45)-TH



J64-F-70-43 (44) (45)-TH



Micro-rectangular Cable Network

Since 2006, the company has developed and produced cable assembly products based on connector development technology. In terms of micro-rectangular cable network, the company produces single-branch cable, multi-branch cable, large three-dimensional cable network and other cable assembly products according to the needs of users. The company's cable assembly products have superior performance indexes and can adapt to the special requirements of various complex natural environments and mechanical environments, such as low temperature, high temperature, lead shielding, and 360° shielding, rainproof, watertight, flame proof, etc.

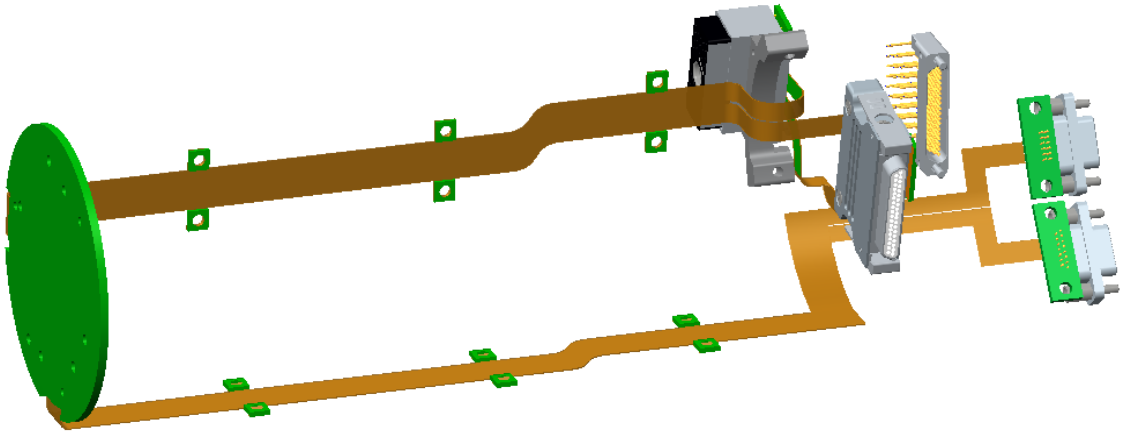
Micro-rectangular cable network assembly products are widely used in high-end customers in aerospace, aviation, electronics, ships, weapons and other fields, mainly for the development and matching of spacecraft, satellites, launch vehicles, missiles, radar and other types of weapons products.

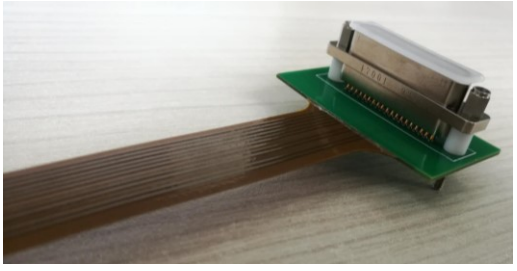
Perfect cable network development, production and testing platform

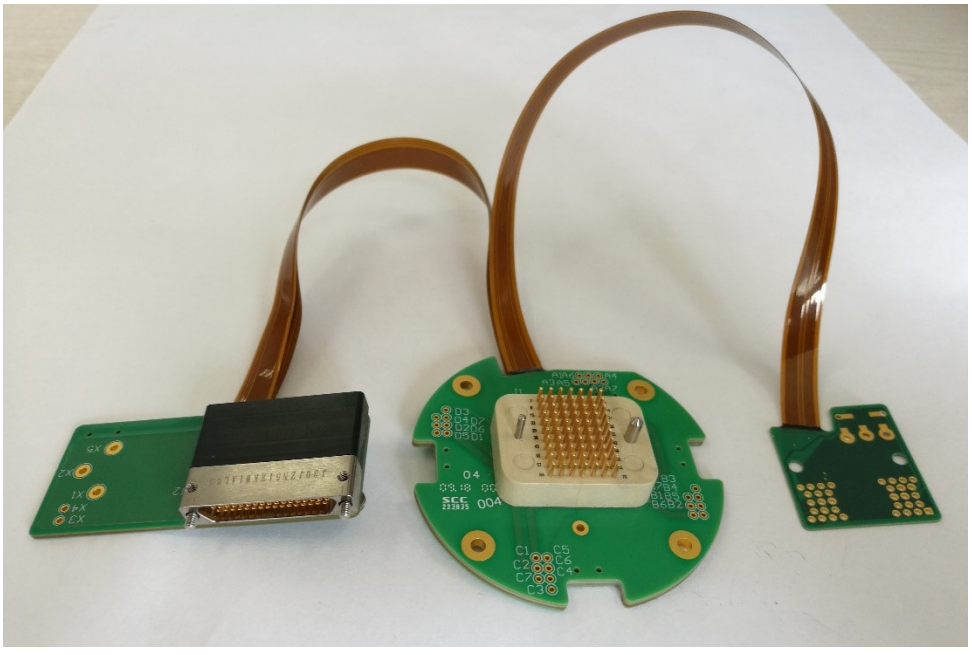
Micro-rectangular multi-branch cables

Rigid-flex PCB cable network

Due to the trend and reality of miniaturization of models, the traditional cable network can not fully meet the interconnection requirements within and between single machines. Our company makes use of the characteristics of flexible and rigid board, such as bending in space and thin thickness of flexible board, so that signals can be transmitted along the inner wall of the bomb and in a narrow space. According to the requirements of module interface, we select appropriate PCB type connectors to weld with flexible and rigid boards, and insert the cable network of rigid-flex PCB with each module, so as to realize the interconnection of signals between modules inside the bomb.



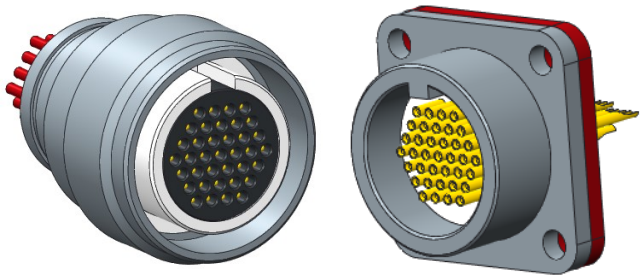




Rigid-flex PCB

Y34M Series Micro-circular Electrical Connector

Product Overview



- In-line micro-circular electrical connector;
- The contact adopting flexible twist pins and rigid Jack structure;
- Small in size, light in weight, easy to use and reliable in
- Number of cores: seven specifications of 4, 7, 11, 19, 37, 55 and
- Two locking modes of thread locking and push-pull locking are
- The flange of Y34M product has two types: Diamond flange and
- There are two kinds of plating, one is nickel plating and the other is cadmium plating;
- Execute enterprise standard: Q/Ag 1.363 Detailed Specification for Y34M Series Micro-circular Electrical Connectors.

Product Performance

Mechanical Properties

Housing	Copper alloy	Mechanical life	500 plugging and unplugging cycles
Plating	Nickel plating, Cadmium plating	Vibration	Frequency 10 ~ 2000 Hz, Acceleration 196 m/s^2
Insulator	Thermoplastic	Impact	735m/s^2
Contact	Gold-plated copper alloy, crimping type, welding type, PCB type		

Electrical Performance

Contact resistance and rated current of contacts

Contact Specification	Contact resistance mΩ		Rated current A
	Before lifetime	After lifetime	
Twist pins	≤10	≤20	3

Magnetic permeability	Not more than 2.0
Insulation resistance	under normal conditions ≥ 5000 MΩ; under damp and hot conditions ≥ 1 MΩ
Withstand voltage	under normal conditions ≥ 800Vrms; under damp and hot conditions ≥ 360Vrms, Under low pressure conditions ≥ 150Vrms

Environmental Performance

Temperature range	-65 ℃ ~ +125 ℃	Relative humidity	90% ~ 95% at 40 ℃
Salt spray	48h	Working air pressure	101.33 kPa ~ 4.39 kPa

Model Designation

	Y34M	I	-	7	P	H	A	-	G	F
Code of main designation	Y34M: Copper alloy housing									
Number of keyways	I - 1 keyway No indication: 3 keyways									
Number of contacts	4, 7, 11, 19, 37, 55, 85									
Contact type	P - Pin S - Jack									
Tail type	H - Crimping type S - Welding cup type L - In-line PCB W - Bent PCB									
Accessories	A - Housing with shielded crimp ring B - Housing with tail cover									
Housing plating	No indication - Nickel plating G - Cadmium plating									
Variant	No indication - The socket housing flange is diamond F - The socket housing flange is square A - The plug is provided with a rain cover, and the socket housing flange is circular									

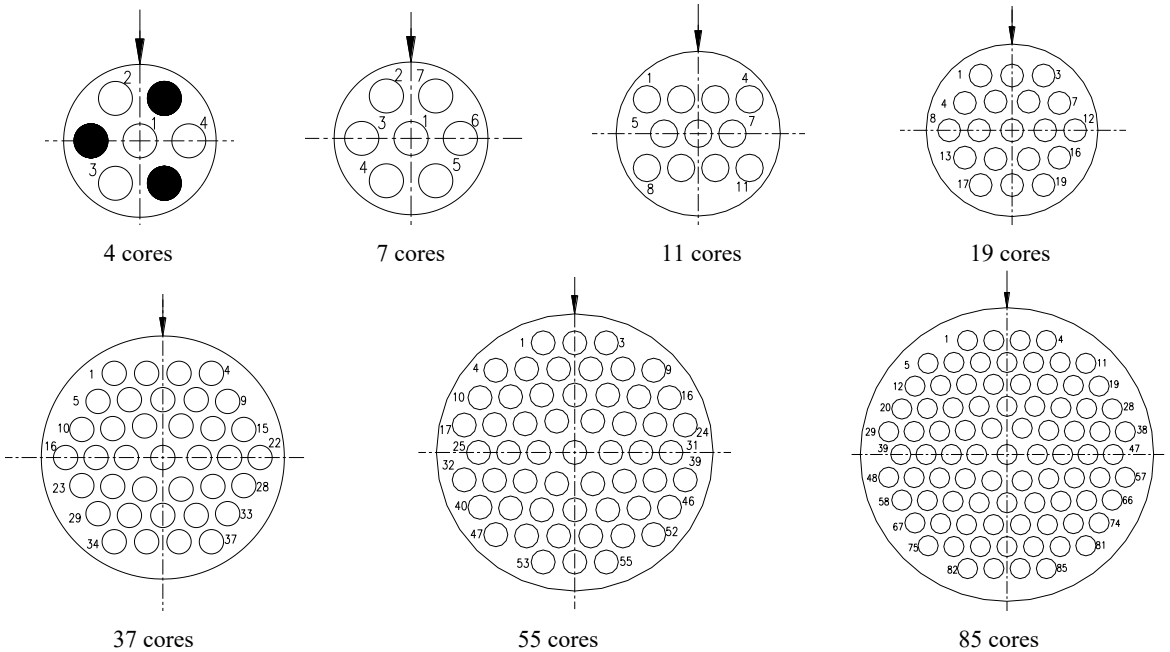
Table 3

No.	Classification feature	Classification content	Mark code
1	Wire color	R: red; W: white; M: purple; G: green; A: gray; U: blue; Y: yellow; B: black; N: orange;	R, W, M, G, A, U, Y, B, N
2	L	Connector with wires	L
3	Wire length	1000: wire length value in mm	1000
4	Wire specification	A: 0.15mm^2 AFR-250 B: 0.12mm^2 AFR-250 D: 0.15mm^2 AFRP-250 F: 0.15mm^2 AF-250 etc.	A, B, D, F etc.
5	Additional requirements	No indication: no additional requirements 1: Wire jacket nylon sleeve 2: Wire jacket anti-wave sleeve 3: Wire jacket anti-wave sleeve and nylon sleeve 4: Marker at the end of wire etc.	1, 2,3, 4, etc.

Model example: Y34MI-7PHA-F (WL300A)

The above marks indicate that the number of contacts of the product is 7, and the contact is a pin; the tail end of the contact is changed into crimping type, and the housing is provided with a shielded crimp ring; the wire specification is AFR-250, the cross-sectional area of the wire core is 0.15mm^2, the length is 300, and the color is white; the anti-misinsertion structure is a keyway Y34M product.

Y34M Spectrum Arrangement (View of Pin-mounted Insulator Insertion Surface)



4 cores　7 cores　11 cores　19 cores

37 cores　55 cores　85 cores

Notes: 1. The above hole position arrangement is the hole position arrangement of the butt end of the plug (built-in pin);

2. The position indicated by the arrow is the position of the main keyway;

3.● indicates no contact.

Classification of Y34M Series Plug and Socket

Type of Plug and Socket		Basic Identification	Structural Features
Crimping type	Basic type	Plug Y34M-PH Socket Y34M-SH-F	Copper alloy housing, square socket flange, electroless nickel plating, wire crimping, three keyways
		Plug Y34MI-PH Plug Y34MI-SH-F	One keyway, compared with Y34M-PH/SH-F
	Variant	Socket Y34M-SH	Compared with Y34M-SH-F, the socket flange is diamond
		Socket Y34MI-SH	One keyway, compared with Y34M-SH
Welding type	Basic type	Plug Y34M-PS Socket Y34M-SS-F	Compared with Y34M-PH/SH-F, the contact termination is welding cup type
	Variant	Socket Y34M-SS	Compared with Y34M-SS-F, the socket flange is diamond
		Socket Y34MI-SS	One keyway, compared with Y34M-SS
In-line PCB type	Basic type	Plug Y34M-PL Socket Y34M-SL-F	In-line PCB type, compared with Y34M-PH/SH-F
		Plug Y34MI-PL Socket Y34MI-SL-F	One keyway, compared with Y34M-PL/SL-F
	Variant	Socket Y34M-SL	Compared with Y34M-SL-F, the socket flange is diamond
		Socket Y34MI-SL	One keyway, compared with Y34M-SL
Bent PCB type	Basic type	Plug Y34M-PW Socket Y34M-SW	Bent PCB type, compared with Y34M-PH/SH
		Plug Y34MI-PW Socket Y34MI-SW	One keyway, compared with Y34M-PW/SW
	Variant	Socket Y34M-SW	Compared with Y34M-SW, the socket flange is diamond
		Socket Y34MI-SW	One keyway, compared with Y34M-SW

Instructions for Product Selection

Y34M series products are micro-circular electrical connectors with keyway housing positioning, and the contacts are flexible pin and rigid Jack structure. The products are available in various forms such as crimping type, welding type and PCB type, which can be used together. Any type of plug and socket with the same number of cores can be used together.

When selecting the crimping connector, it is necessary to determine the color and length of the wire, whether the wire harness needs to be shielded, and whether the nylon sleeve is needed. If the user has other special requirements for the wire brand and wiring mode of the product, he should confirm with the company's technicians and confirm the product model before ordering.

If most of the holes of the product need to be connected with wires with thicker outer diameter, it should be considered whether the glue-filling cavity and clamp assembly of the product have enough accommodation space, and the conclusion can only be drawn after trial assembly.

For the treatment of empty points in the product, if there is no technical agreement or no consensus has been reached before, the empty points shall be blocked with jacks or pins that are not crimped with wires.

Operation Precautions

When installing, fix the socket flange on the mounting panel with screws.

The electrical connector is connected by screw thread. When connecting, align the positioning rib groove on the plug/socket first. After the initial connection, slowly rotate the connecting cap on the plug clockwise until it is tightened. At this time, the plug/socket is connected in place.

When the electrical connector is separated, slowly turn the connecting cap on the plug counterclockwise until it is separated

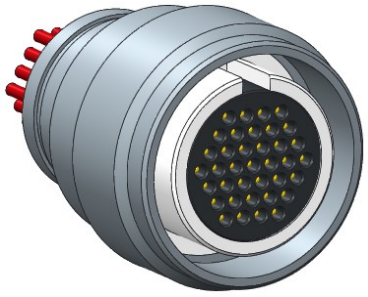
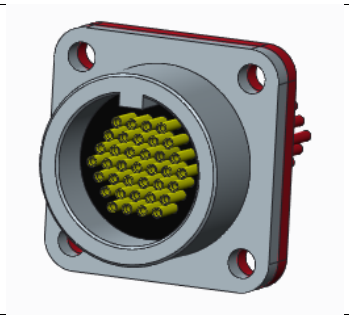
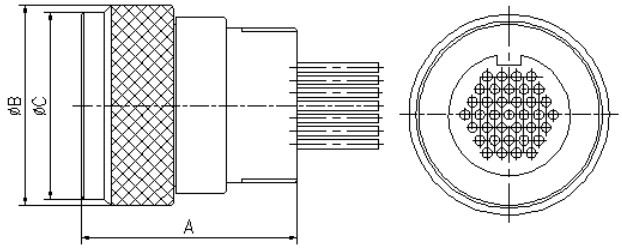
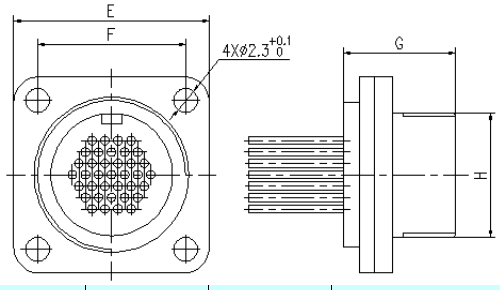
The product is strictly prohibited to contact with acid, alkali and other polar solvents during transportation, storage and use.

When the product is not connected for a long time, it is necessary to cover the dust cover.

The welding temperature shall be no more than 280 ℃ and the welding time shall be no more than 3s when wire welding is performed on the welded product.

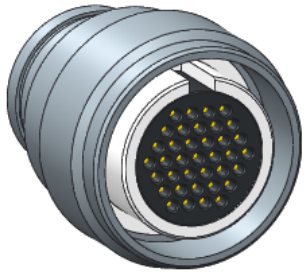
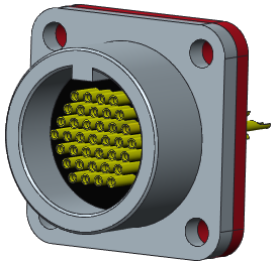
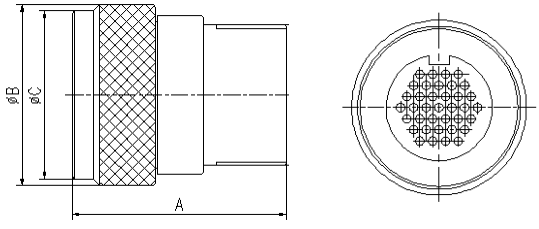
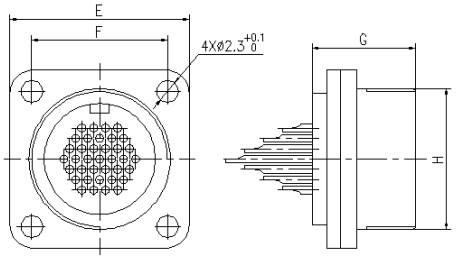
Overall and Installation Dimensions

Y34M crimping type: plug Y34M-PH/Y34MI-PH/square flange socket Y34M-SH-F/Y34MI-SH-F

Plug: Y34M-PH/Y34MI-PH	Socket: Y34M-SH-F/Y34MI-SH-F
	
	

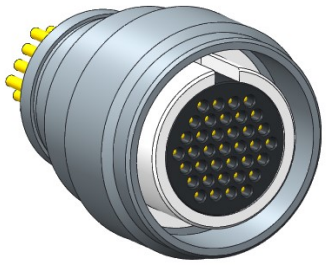
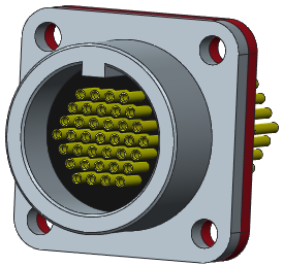
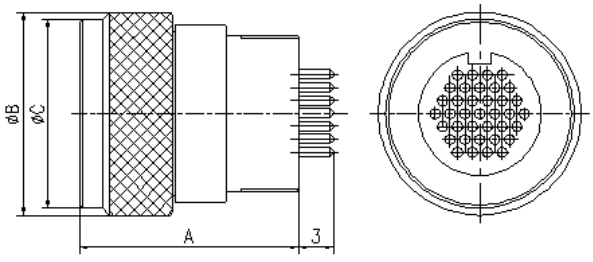
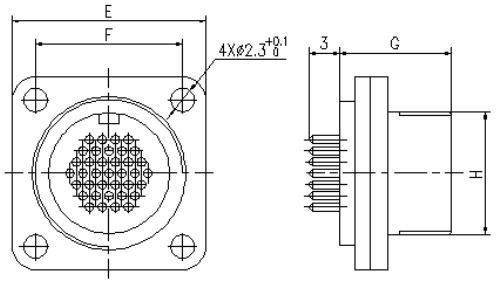
Number of cores	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	G (mm)	H
4	10.2	11	9	16.5	11.5	10.9	M8×1-6h
7							
11	13	13.8	11	18.5	13.5		M10×1-6h
37	19.5	17.3	16.1	19	14		M15×1-6h

Y34M welding typeY34M-PS/Y34MI-PS Y34M-SS-F/Y34MI-SS-F

Plug: Y34M-PS/Y34MI-PS	Socket: Y34M-SS-F/Y34MI-SS-F
	
	

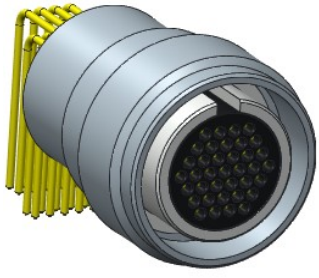
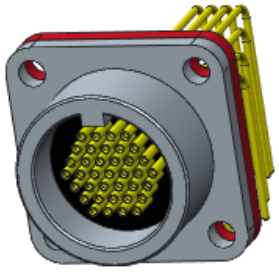
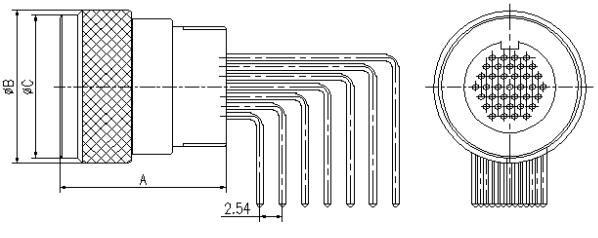
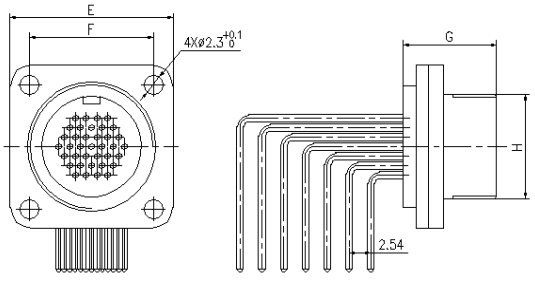
Number of cores	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	G (mm)	H
4	10.2	11	9	16.5	11.5	10.9	M8×1-6h
7							
11	13	13.8	11	18.5	13.5		M10×1-6h
37	19.5	17.3	16.1	19	14		M15×1-6h

Y34M in-line PCB type Y34M-PL/Y34MI-PL　　Y34M-SL-F/Y34MI-SL-F

Plug: Y34M-PL/Y34MI-PL	Socket: Y34M-SL-F/Y34MI-SL-F
	
	

Number of cores	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	G (mm)	H
4	10.2	11	9	16.5	11.5	10.9	M8×1-6h
7							
11	13	13.8	11	18.5	13.5		M10×1-6h
37	19.5	17.3	16.1	19	14		M15×1-6h

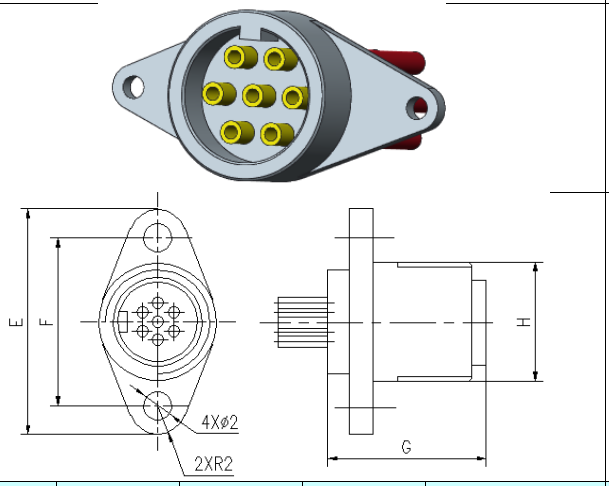
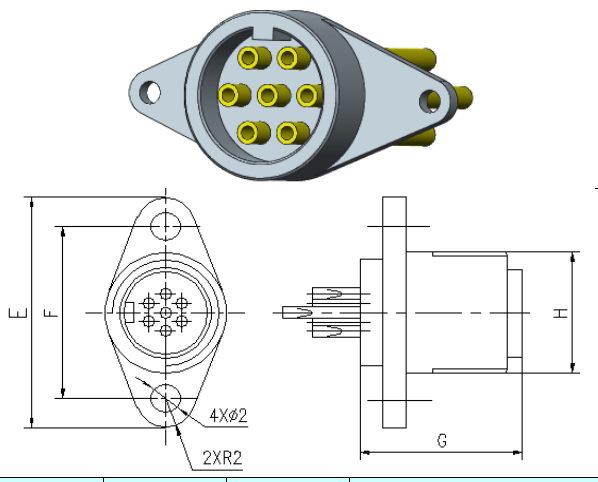
Y34M bent PCB type Y34M-PW/Y34MI-PW　　Y34M-SW-F/Y34MI-SW-F

Plug: Y34M-PW/Y34MI-PW	Socket: Y34M-SW-F/Y34MI-SW-F
	
	

Number of cores	A (mm)	B (mm)	C (mm)	E (mm)	F (mm)	G (mm)	H
4	10.2	11	9	16.5	11.5	10.9	M8×1-6h
7							
11	13	13.8	11	18.5	13.5		M10×1-6h
37	19.5	17.3	16.1	19	14		M15×1-6h

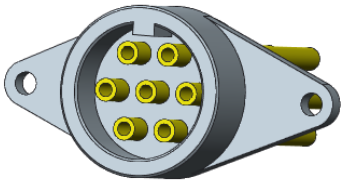
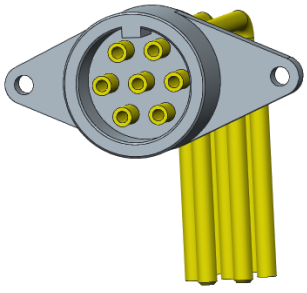
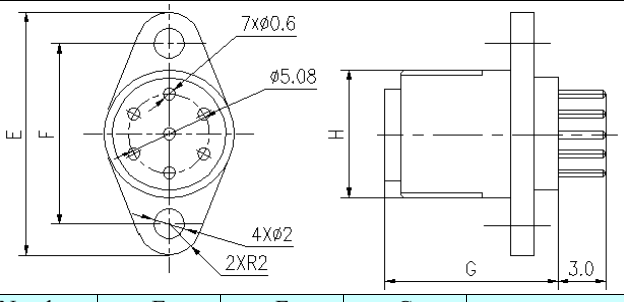
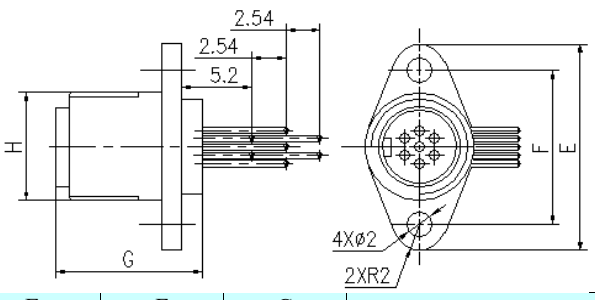
Y34M crimping type: diamond flange socket Y34M-SH/Y34M-SH

Y34M welding type: diamond flange socket Y34M-SS/Y34M-SS

Socket: Y34M-SH/Y34M-SH					Socket: Y34M-SS/Y34M-SS			
								
Number of cores	E (mm)	F (mm)	G (mm)	H	E (mm)	F (mm)	G (mm)	H
4 7	15.6	11.6	11	M8×1-6h	16.5	11.5	10.9	M8×1-6h

Y34M in-line PCB type: diamond flange socket Y34M-SL/Y34M-SL

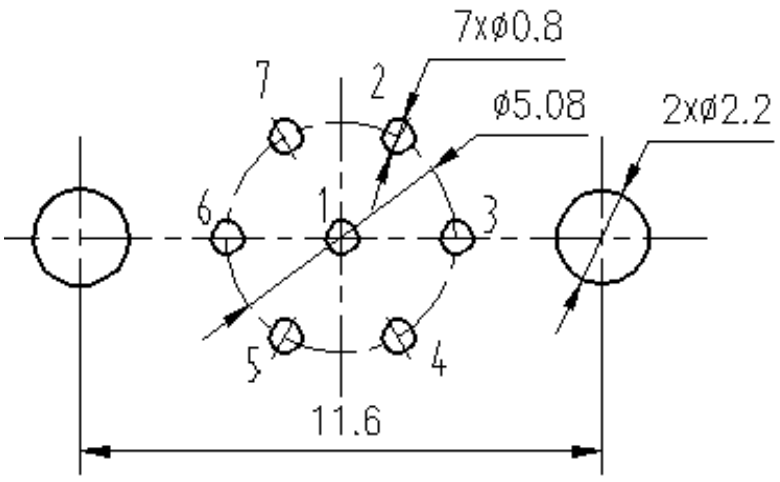
Y34M bent PCB type: diamond flange socket Y34M-SW/Y34M-SW

Socket: Y34M-SL/Y34M-SL					Socket: Y34M-SW/Y34M-SW			
								
								
Number of cores	E (mm)	F (mm)	G (mm)	H	E (mm)	F (mm)	G (mm)	H
4 7	15.6	11.6	11	M8×1-6h	16.5	11.5	10.9	M8×1-6h

Hole size of Y34M series in-line PCB socket: Y34M-SL/Y34MI-SL;

The hole size of the pin is $\Phi 0.8_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.2_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

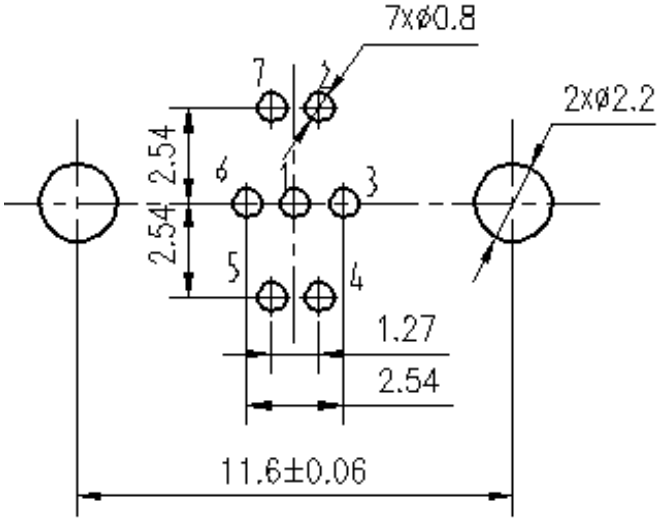
Y34M-7SL/Y34MI-7SL



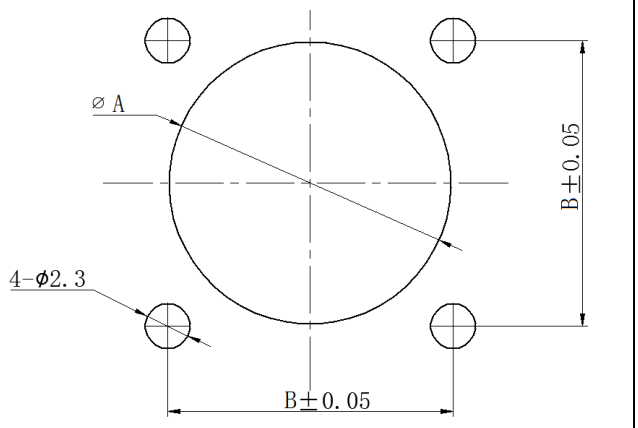
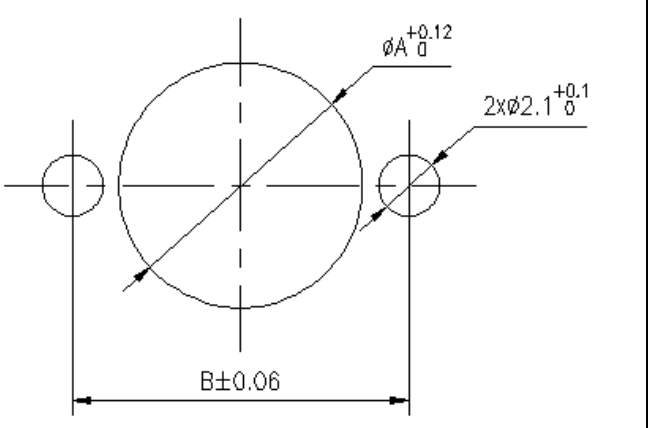
Hole size of Y34M series bent PCB socket: Y34M-SW/Y34MI-SW;

The hole size of the pin is $\Phi 0.8_{0}^{+0.1}$, and the size of the mounting hole is $\Phi 2.2_{0}^{+0.1}$ (viewed from the threading direction of the PCB contact).

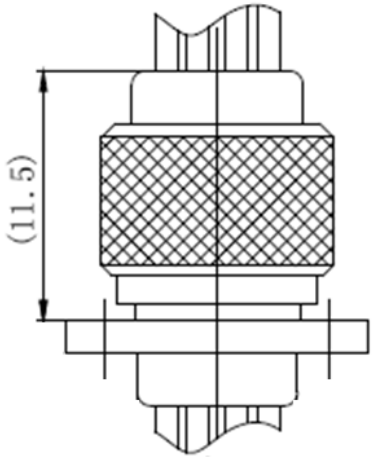
Y34M-7SW/Y34MI-7SW



Opening size of mounting plate

The socket housing flange is square			The socket housing flange is diamond		
					
Number of cores	A	B	Number of cores	A	B
4	9.5	11.5	4	8.4	11.6
7			7		
11	10.5	13.5			
37	14.2	14.4			

Distance dimension of mounting surface



Fuzz Button

Product Overview

- Small space required and high contact density
- Small plugging and unplugging force, no need of high temperature welding, easy disassembly and maintenance
- It is suitable for the transmission of common low-frequency signals, the interior is randomly wound and distributed by thin metal wires, the path length and skin effect are reduced, the signal loss during transmission is small, and it is also suitable for the transmission of high-frequency signals such as microwaves
- Suitable for unwelded vertical interconnections between modules or between functional modules and substrates

Product Performance

Mechanical Properties

Materials	Gold-plated beryllium copper, gold-plated molybdenum, gold-plated tungsten etc.	Impact	100g, half sinusoid
		Compression	15% -30% of length
Plating	Gold plating	Random vibration	0.2G²/Hz
Mechanical life	5000 plugging and unplugging cycles		

Environmental Performance

Operating temperature -55 ℃ ~ + 125 ℃ Salt spray 96h

Transmission performance

Operating frequency ≤ 40GHz

Insertion loss 0Hz ~ 10GHz, ≥ -0.2dB Far-end crosstalk 0Hz ~ 10GHz, ≤ -20dB

Return loss 0Hz ~ 10GHz,≤ -15dB Near-end crosstalk 0Hz ~ 10GHz, ≤ -20dB

Electrical Performance

Rated current and contact resistance

No.	Contact diameter (mm)	Rated current (A)	Contact resistance (mΩ)	No.	Contact diameter (mm)	Rated current (A)	Contact resistance (mΩ)
1	0.25	1	< 80	10	1.91	17	< 1.5
2	0.38	3	< 70	11	2.03	20	< 1.25
3	0.51	5	< 50	12	2.29	25	< 1
4	0.64	5	< 40	13	3.18	35	< 1
5	0.76	5	< 25	14	3.81	40	< 1
6	1.02	7.5	< 10	15	4.32	60	< 0.8
7	1.14	7.5	< 4	16	5.08	80	< 0.6
8	1.27	7.5	< 3	17	7.11	100	< 0.4
9	1.57	10	< 2.5				

Model Designation

Basic series	FB-		WW	DDD	LLL
Materials	80: Gold-plated beryllium copper; 81: gold-plated molybdenum; 82: gold-plated tungsten; 83: Gold-plated nickel-chromium				
Diameter	025: 0.25mm;	038: 0.38mm;	051: 0.51mm;		
	064: 0.64mm;	076: 0.76mm;	102: 1.02mm;		
	114: 1.14mm;	127: 1.27mm;	157: 1.57mm;		
	191: 1.91mm;	203: 2.03mm;	229: 2.29mm;		
	318: 3.18mm;	381: 3.81mm;	432: 4.32mm;		
	508: 5.08mm;	711: 7.11mm;			
Length	0050 ~ 1270: 0.50mm ~ 12.7mm				

Model example: FB-800510300

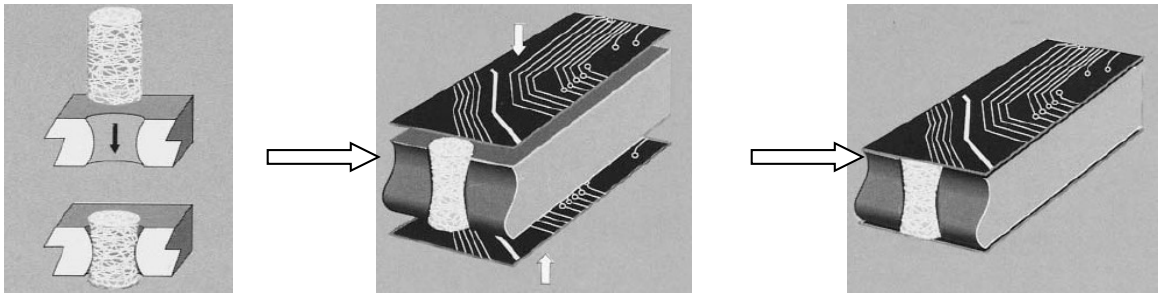
The above marks indicate that the fuzz button is made of gold-plated beryllium copper material, with a diameter of 0.51 mm and a length of 3 mm.

Specifications and Dimensions

No.	Contact diameter (mm)	Length range (mm)	No.	Contact diameter (mm)	Length range (mm)
1	0.25	1.02 ~ 2.16	10	1.91	1.91 ~ 7.62
2	0.38	1.02 ~ 2.79	11	2.03	2.03 ~ 7.62
3	0.51	0.51 ~ 5.08	12	2.29	2.29 ~ 10.16
4	0.64	0.64 ~ 5.08	13	3.18	1.52 ~ 10.16
5	0.76	0.76 ~ 6.35	14	3.81	1.52 ~ 12.7
6	1.02	0.97 ~ 6.35	15	4.32	1.52 ~ 12.7
7	1.14	1.14 ~ 6.35	16	5.08	1.52 ~ 12.7
8	1.27	1.27 ~ 6.35	17	7.11	1.52 ~ 12.7
9	1.57	1.57 ~ 7.62			

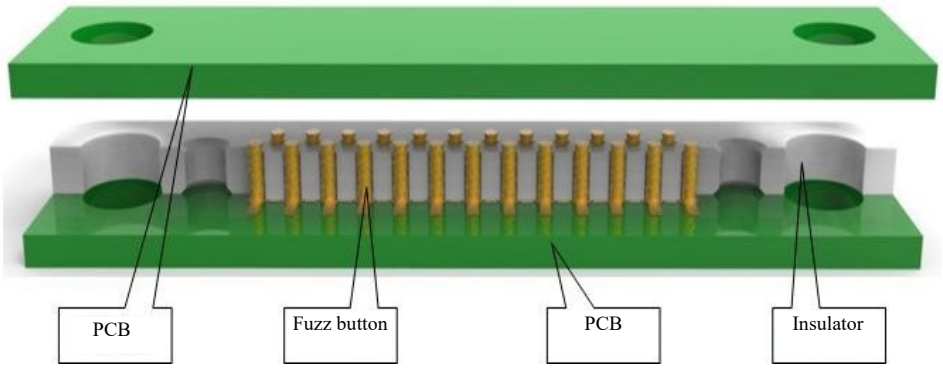
Application Principle of Fuzz Button

The fuzz button is an elastic connector (contact), which is used to replace the board-to-board connector, placed in a matching interlayer, and applied with a certain prestress to make the fuzz button contact with the pad to achieve electrical connection. This technology is also known as the fuzz button vertical interconnection technology.

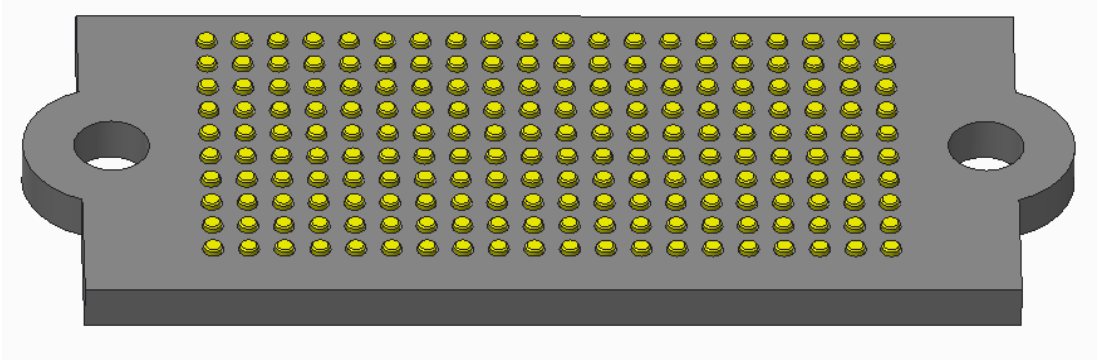


Main Technical Characteristics of Fuzz Button

1. End-face contact, zero plugging and unplugging force, no need of high temperature welding, easy disassembly and maintenance, suitable for unwelded vertical interconnection between modules or between functional modules and substrates.



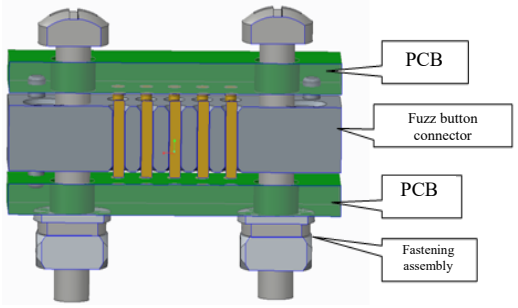
2. The required space is small, and the contact density is high: the minimum specification diameter of the fuzz button contact is only 0.25mm, and the contact arrangement with a contact spacing of 0.5mm can be realized. The minimum height of the fuzz button contact is only 1 mm, which can realize the effective vertical interconnection between the PCBs with the board height of about 1 mm.



Examples of Product Application

1. Fuzz button + insulator structure

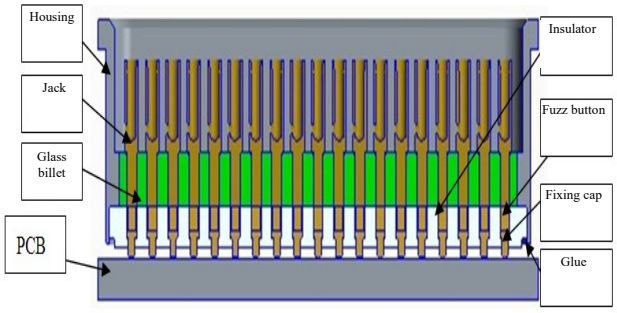
It has the advantages of small size, simple structure, convenient connection and good signal integrity, is suitable for the use environment with small installation height between boards, and is the most common use form of the fuzz button product



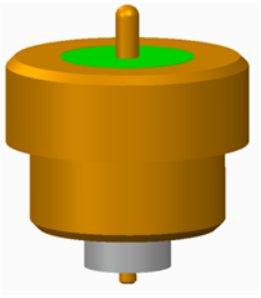
Interboard mezzanine connector

2. Structure of fuzz button + insulator + fixing cap

It has the advantages that the service life of the fuzz button can be greatly prolonged when the fuzz button is used together with the fixing cap. When in installation, the fixing cap part can realize expansion and contraction, which is suitable for the height between the boards with a certain adjustment space.



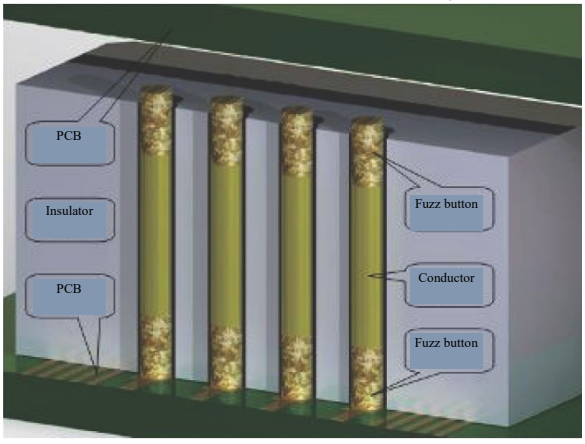
Glass-sintered fuzz button connector



RF coaxial connector

3. Structure of fuzz button + insulator + conductor

It has the advantages of ensuring longer service life of the fuzz button and better fixity of the contacts.



Application Field of Fuzz Button

It is widely used in modern military and civil electronic equipment, especially in airborne and missile-borne radar and communication systems.