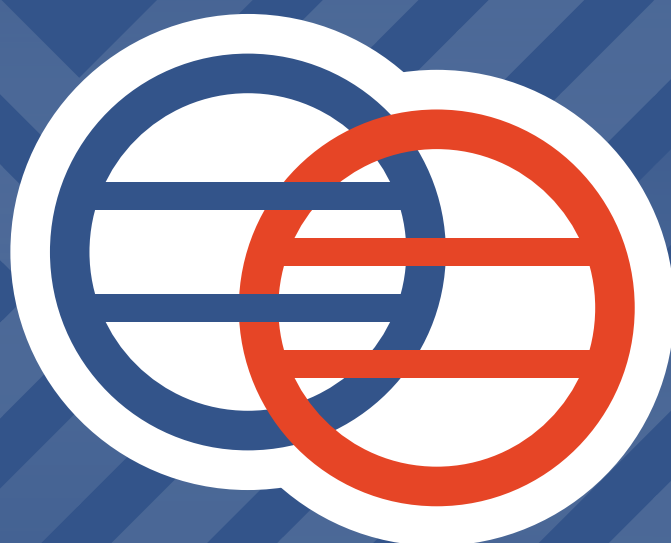




MATENG

S6 SERIES

CATALOG

S6 (ARINC600) SERIES CONNECTOR



PRODUCT INTRODUCTION

- Compliant with ARINC600 standard
- Error-proof using hexagonal encoding with 99 error-proof keys
- Different materials and coatings can be selected for the housing to suit different environmental requirements
- Mix common low frequency, power supply, high frequency, high speed differential and light contact parts for integrated signal transmission
- Modular structure design allows users to choose different combinations of modules according to their usage requirements
- Standard 8#RF contacts use frequency 0~500MHz, floating 8#RF contacts use frequency 0~18GHz

SPECIFICATION

- Machine life: 500 plugging cycles
- Shock: 11ms half sine wave acceleration 50G
- Vibration: Functional vibration: 15-2000 Hz, power spectral density 0.126G²/Hz, duration 6 h
- Durable vibration: 15-2000Hz, power spectral density 0.201G²/Hz, duration 7.5h
- Temperature range: -65°C~ +150°C
- Salt fog: Class F: 96h W: 500h M: 192h (acidic atmosphere)
- Liquid resistant: oil resistant to multiple fuels, coolants, etc.
- Insulation resistance: > 5000M (500V DC)

Rated current, contact resistance, voltage resistance of low frequency contacts

Contact Specification	Cable specification (AWG)	Rated current A	Contact Resistance max mΩ	Withstanding Voltage (V)		
				Sea level	15000m	30480m
22D	26, 24, 22	2, 3, 5	11	1300	500	—
20#	24, 22, 20	3, 5, 7.5	8.5	1500	500	—
16#	20, 18, 16	7.5, 10, 13	5	1500	—	500
12#	14, 12	17, 23	2.5	1500	—	500
10#	10	40	1.2	1500	—	500
8#	8	53	0.7	1500	—	500
4#	6	80	0.35	1500	—	500



HIGH SPEED DIFFERENTIAL SIGNAL

Transfer Rate	1.65Gbps	Near-end Crosstalk	≥30dB
Characteristic Impedance	100Ω	Insertion Loss	≤0.5dB (250MHz)

CAN BUS SIGNAL AND ARINNC429 SIGNAL

Transfer Rate		1Mbps
Characteristic Impedance		120Ω
Rated Voltage		50V
Electromagnetic Shielding Interference (dB/min)	800MHz~1000MHz	50dB
	300MHz~400MHz	51dB
	200MHz	53dB
	100MHz	55dB

1553B SIGNAL

Transfer Rate		1Mbps
Characteristic Impedance		70~85Ω
Rated Operational Voltage	Sea level	500V
	21000m	125V
Pressure Drop	Center contact	<55mV/1A
	Intermediate contact	<55mV/1A
	Outer contact	<75mV/12A

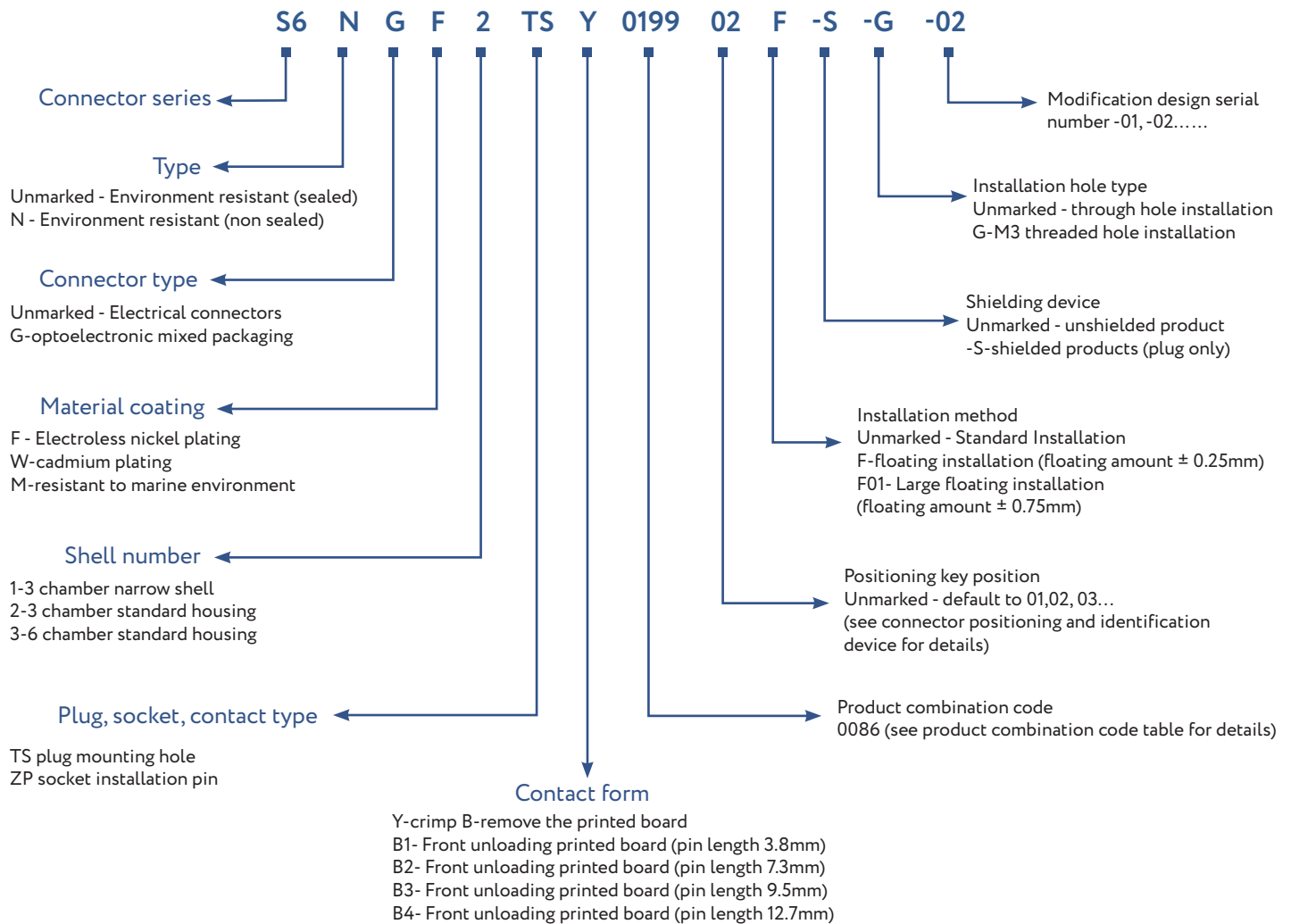
HIGH FREQUENCY SIGNAL

Specification of coaxial contact parts		Standard 8 # coaxial	Standard 5 # coaxial	Standard 1 # coaxial
Characteristic impedance		75Ω		50Ω
Bandwidth		0~500MHz		0~2GHz
Withstanding voltage	Sea level	750V		
Drop	Center contact	≤10mΩ		
	Outer contact	≤1.5mΩ		
Standing-wave Ratio		≤1.3		≤1.5
Insertion Loss		≤0.3dB		

OPTICAL SIGNAL

Specification of optical contact parts	16#Fiber optic contact	A8TFiber optic contact
Insertion loss (single mode)	≤1.5dB	
Insertion loss (multimode)	≤1.2dB	

TYPE DESIGNATION



Note 1: The type of printed board is only limited to S6-2 and S6-3 series sockets, and there is no printed board type for plugs.

Note 2: Removing the printed board before class B2 can replace removing the printed board after class B.

EXAMPLE OF MODEL MARKING

S6GM2TSY0199-S-G: S6-2 series plug, product combination code 0199, coating is marine environment resistant coating, plug hole installation, termination method is crimping, plug is sealed shielding photoelectric mixed installation plug, positioning key position is default 01 key position, installation method is M3 threaded hole installation.

NOTE

1. Install pins for connector plug 22D contacts and holes for other contacts; Install holes for socket 22D contacts and pins for other contacts. When naming connectors, the 22D contact type is not taken into account, and other specifications of contact parts shall prevail.
2. The finished connector products only provide conventional contacts such as 22D, 20 #, 16 #, and 12 #, and special contacts such as high-frequency, coaxial, differential, and optical fibers that are compatible need to be ordered separately.
3. There is no locking mechanism between the plug and socket of this series of connectors, and the connector locking is achieved through the locking mechanism of its supporting equipment. The installation method and size of the plug and socket in place are shown in Figure 1.
4. The S6 series metal frame connector is installed on the panel through screws, and the recommended installation method for sockets is to install them from behind the board, that is, from inside the chassis. The recommended installation method for plugs is backboard installation. (Note: The positioning reference for the installation surface of

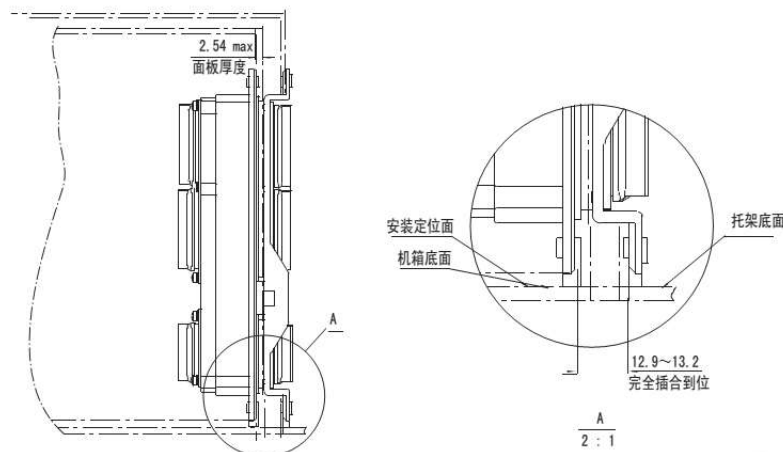
NOTE

the plug and socket is the square protrusion on the shell of the plug and socket square plate, which needs to be ensured that the square protrusion of the plug and socket and the bottom surface of the chassis are located on the same horizontal plane, as shown in Figure 1. This can ensure that the product design reference, part processing reference, connector installation reference, and the theoretical insertion reference of the chassis and installation bracket are consistent, and ensure the smooth insertion and engagement of the connector.)

5. For standard products, the installation and positioning dimensions cannot be based on the installation holes. If a floating product is selected, in order to ensure the floating effect of the product, the floating range is $\pm 0.25\text{mm}$ for the product. Only four to six installation holes can be selected for installation on the flange plate. If individual users choose to install horizontally, it is important to ensure that the plug is at least 0.5mm above the socket in the vertical direction. Because there may be gaps during the actual insertion process between the chassis and the bottom surface of the mounting bracket, it is impossible to fully fit.

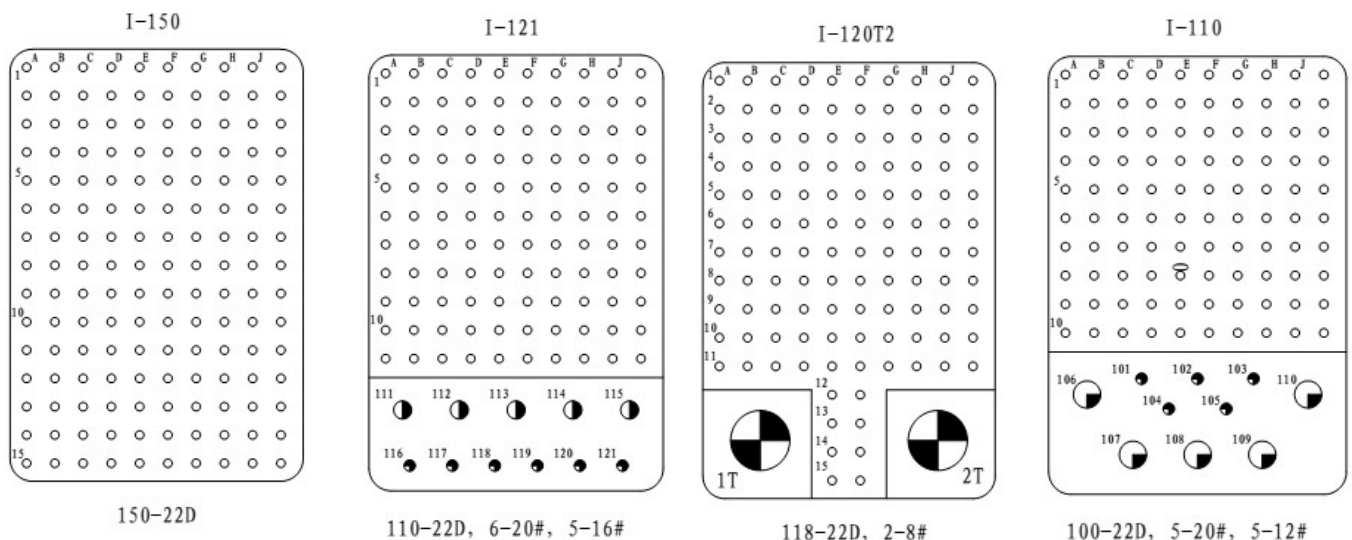
6. During the connector insertion process, if there is any problem with smooth insertion, you can press the rear of the chassis to slightly lift the front of the chassis before inserting it into the plug on the installation rack. If it can be directly and smoothly inserted, there is no need to follow this operation. (However, please note that if the size design of the chassis and mounting bracket is not reasonable, causing the socket to be located above the plug when the chassis and mounting bracket are plugged in, it is difficult to ensure smooth insertion.)

Figure 1. S6 Series Standard Installation Plug and Socket Installation Dimensions

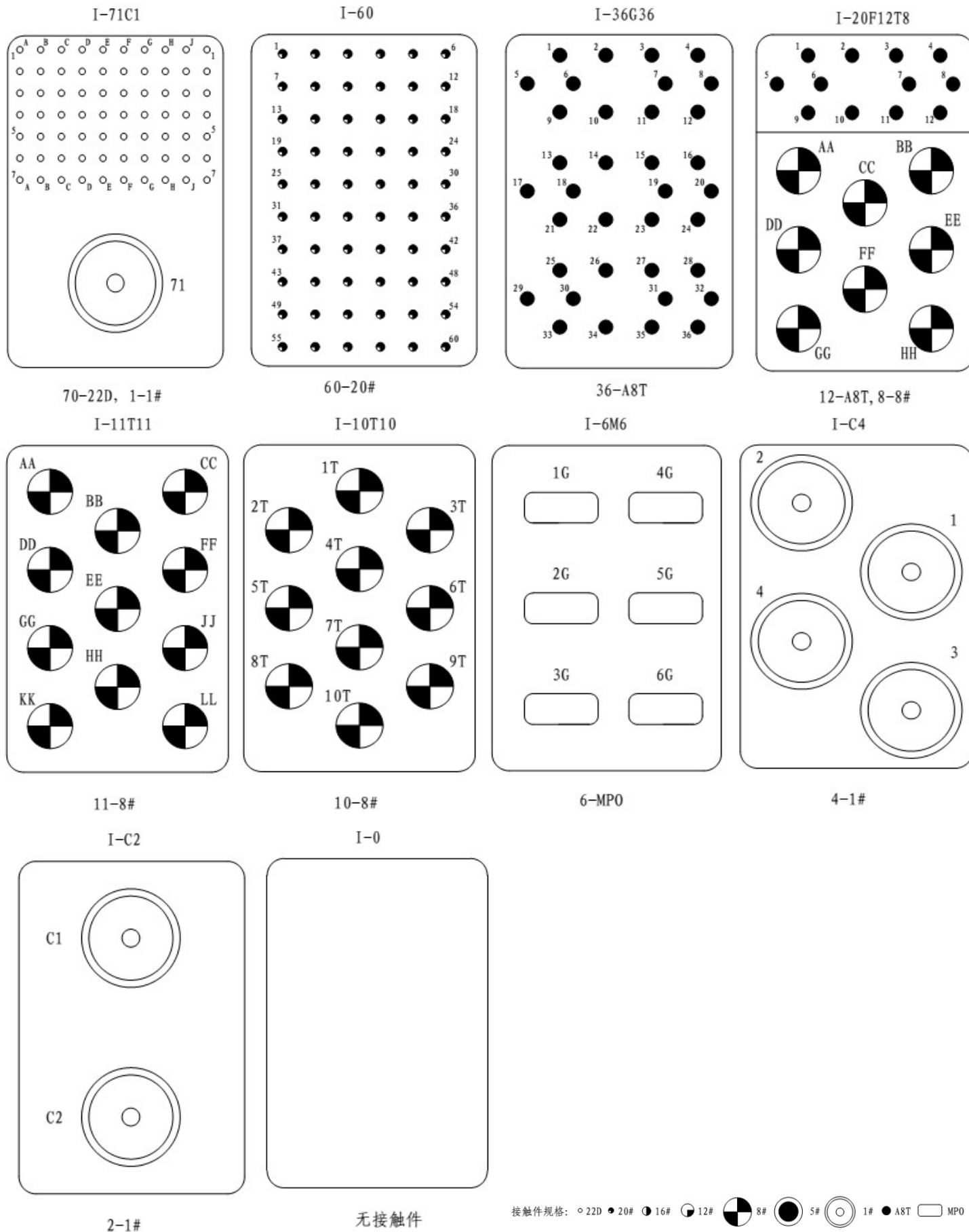


LIST OF CONTACT STRIPS (view of socket insulator mating surface)

STANDARD SHELL A, B, D, E CAVITY CONTACT ARRANGEMENT



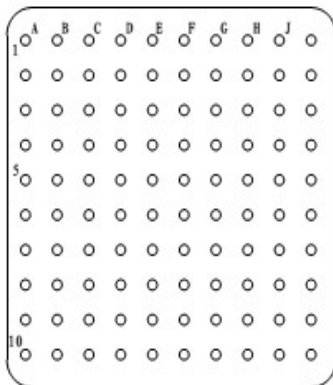
STANDARD SHELL A, B, D, E CAVITY CONTACT ARRANGEMENT



接触件规格: ○ 22D ● 20# ○ 16# ○ 12# ○ 8# ○ 5# ○ 1# ● A8T □ MP0

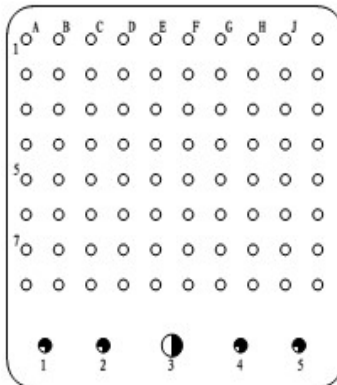
STANDARD SHELL C AND F CAVITY CONTACT ARRANGEMENT

II-100



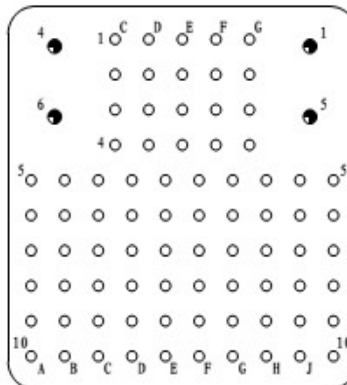
100-22D

II-85



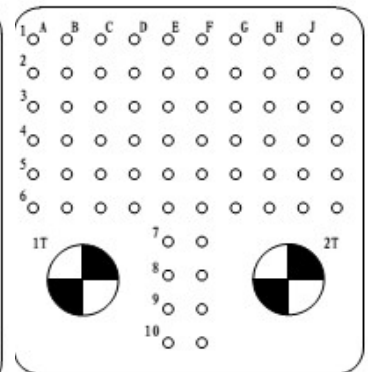
80-22D, 4-20#, 1-16#

II-84



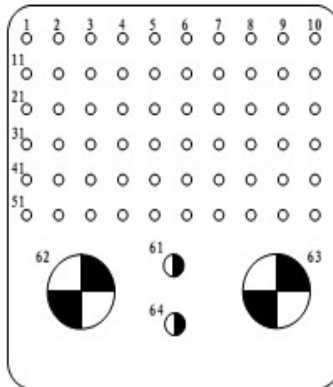
80-22D, 4-20#

II-70T2



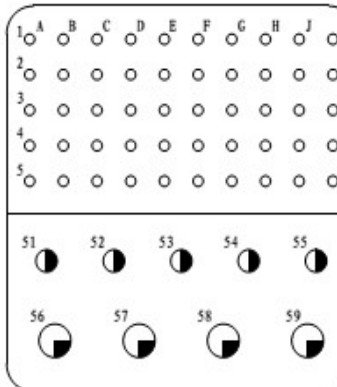
68-22D, 2-8#

II-64T2



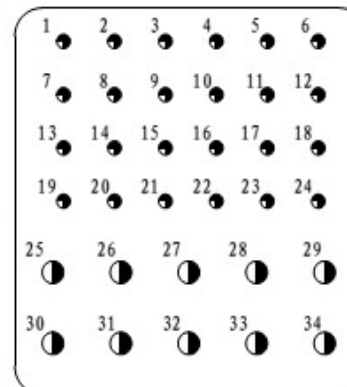
60-22D, 2-16#, 2-8#

II-59



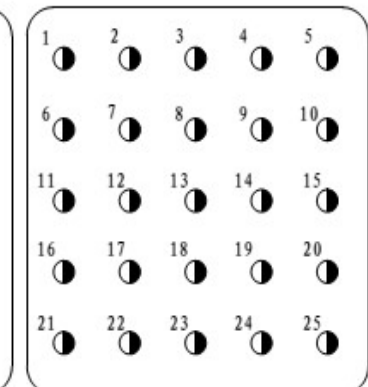
50-22D, 5-16#, 4-12#

II-34



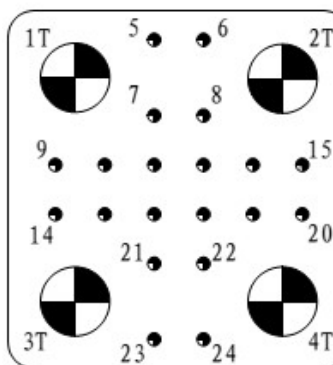
24-20#, 10-16#

II-25



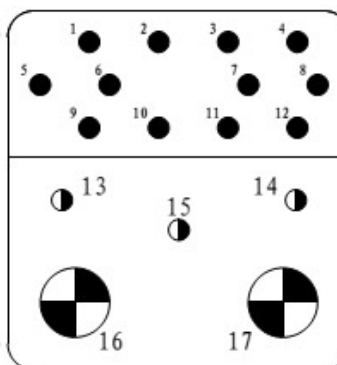
25-16#

II-24T4



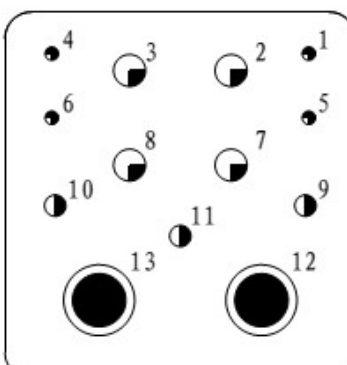
20-20#, 4-8#

II-17F12T2



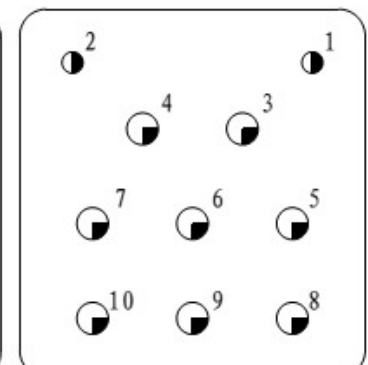
12-A8T, 3-16#, 2-8#

II-13W2



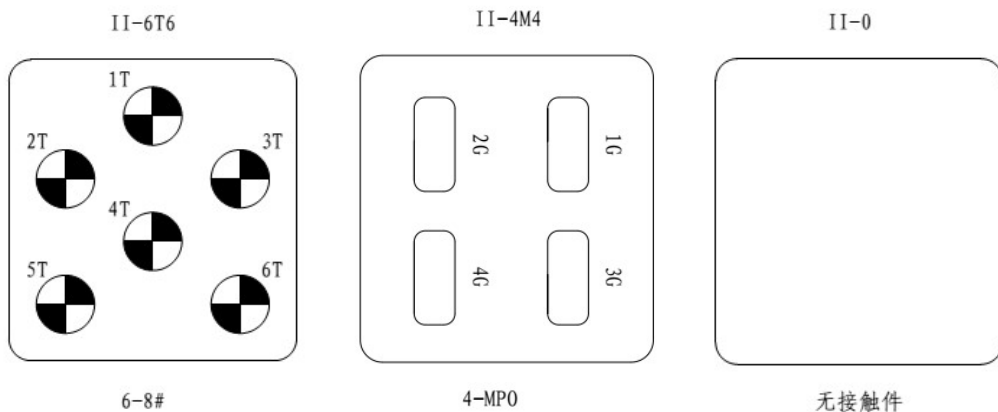
4-20#, 3-16#, 4-12#, 2-5#

II-10



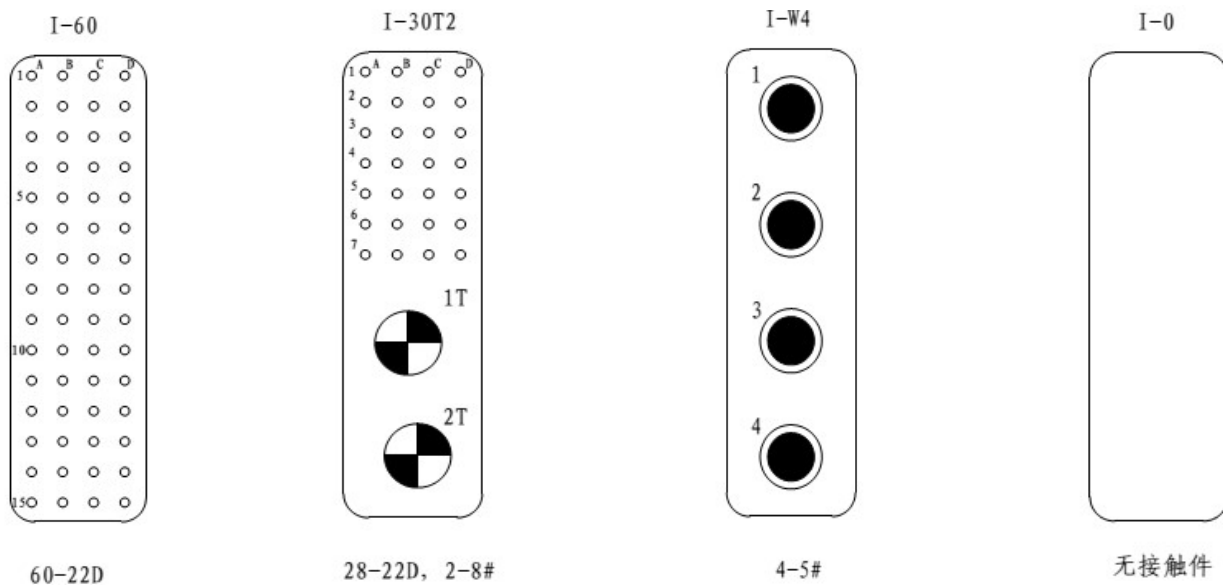
2-16#, 8-12#

STANDARD SHELL C AND F CAVITY CONTACT ARRANGEMENT



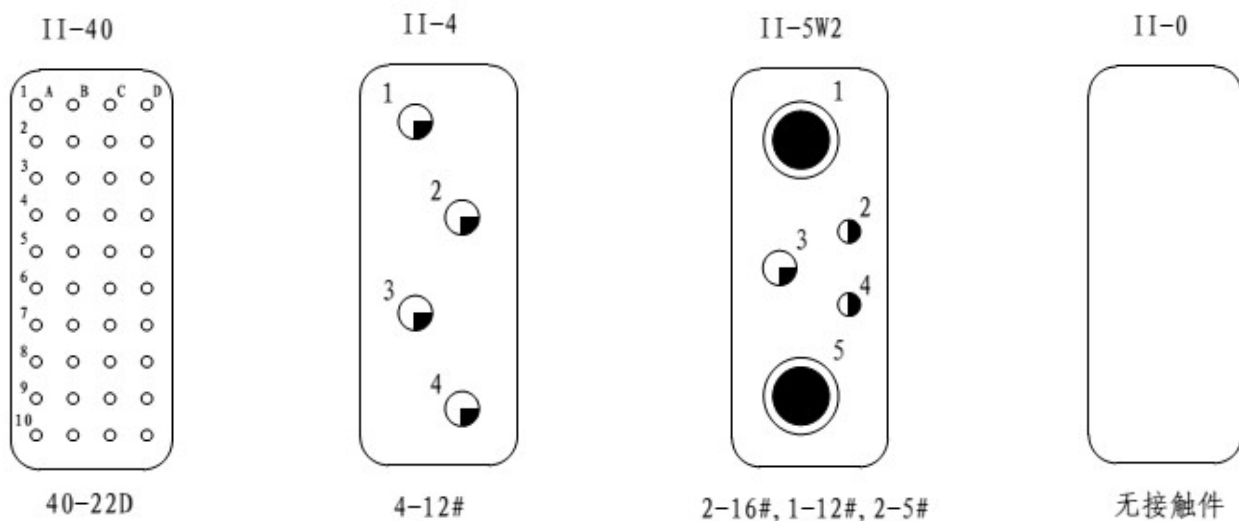
接触件规格: ○ 22D ● 20# ◐ 16# ◑ 12# ◒ 8# ◓ 5# ◔ 1# ● A8T

NARROW SHELL A AND B CAVITY CONTACT ARRANGEMENT



接触件规格: ○ 22D ● 20# ◐ 16# ◑ 12# ◒ 8# ◓ 5# ◔ 1# ● A8T

NARROW SHELL C, F CAVITY CONTACT ARRANGEMENT



接触件规格: ○ 22D ● 20# ◐ 16# ◑ 12# ◒ 8# ◓ 5# ◔ 1# ● A8T

The S6 series products can be combined freely between different modules, and users can choose according to their actual needs. When selecting a connector, you only need to specify which module is required for each cavity, and then search for the corresponding combination code in the table below. The required module combination code is not listed in the table below. Please contact our company.

PRODUCT COMBINATION CODE TABLE

Product combination code	Shell number	Insulation contact arrangement					
		A	B	C	D	E	F
0005	1#	I-0	I-0	II-5W2	—	—	—
0060	1#	I-0	I-60	II-0	—	—	—
A060	1#	I-60	I-0	II-0	—	—	—
0065	1#	I-0	I-60	II-5W2	—	—	—
A065	1#	I-60	I-0	II-5W2	—	—	—
B065	1#	I-30T2	I-30T2	II-5W2	—	—	—
0069	1#	I-60	I-4	II-5W2	—	—	—
0095	1#	I-60	I-30T2	II-5W2	—	—	—
0120	1#	I-60	I-60	II-0	—	—	—
0125	1#	I-60	I-60	II-5W2	—	—	—
0130	1#	I-60	I-30T2	II-40	—	—	—
0160	1#	I-60	I-60	II-40	—	—	—
0013	2#	I-0	I-0	II-13W2	—	—	—
0046	2#	I-11T11	I-11T11	II-24T4	—	—	—
A056	2#	I-11T11	I-11T11	II-34	—	—	—
A081	2#	I-6M6	I-11T11	I-64T2	—	—	—
0084	2#	I-10T10	I-10T10	II-64T2	—	—	—
A084	2#	I-60	I-11T11	I-13W2	—	—	—
0086	2#	I-11T11	I-11T11	II-64T2	—	—	—
0092	2#	I-11T11	I-11T11	II-70T2	—	—	—
0096	2#	I-11T11	I-60	II-25	—	—	—
0100	2#	I-0	I-0	II-100	—	—	—
0105	2#	I-11T11	I-60	II-34	—	—	—
0112	2#	I-6M6	I-6M6	II-100	—	—	—
0116	2#	I-110	I-0	II-6T6	—	—	—
A120	2#	I-10T10	I-10T10	II-100	—	—	—

PRODUCT COMBINATION CODE TABLE

Product combination code	Shell number	Insulation contact arrangement					
		A	B	C	D	E	F
B120	2#	I-120T2	I-0	II-0	—	—	—
0127	2#	I-121	I-0	II-6T6	—	—	—
0131	2#	I-121	I-C4	II-6T6	—	—	—
0133	2#	I-60	I-60	II-13W2	—	—	—
0137	2#	I-121	I-10T10	II-6T6	—	—	—
0138	2#	I-121	I-11T11	II-6T6	—	—	—
T141	2#	I-120T2	I-10T10	II-13W2	—	—	—
0143	2#	I-10T10	I-120T2	II-13W2	—	—	—
0144	2#	I-120T4	I-11T11	II-13W2	—	—	—
A144	2#	I-60	I-60	II-24T4	—	—	—
0150	2#	I-0	I-150	II-0	—	—	—
A150	2#	I-150	I-0	II-0	—	—	—
0154	2#	I-60	I-60	II-34	—	—	—
0155	2#	I-71C1	I-71C1	II-13W2	—	—	—
B155	2#	I-11T11	I-110	II-34	—	—	—
0156	2#	I-120T2	I-11T11	II-25	—	—	—
A160	2#	I-10T10	I-150	II-0	—	—	—
0163	2#	I-0	I-150	II-13W2	—	—	—
A163	2#	I-150	I-0	II-13W2	—	—	—
A165	2#	I-11T11	I-120T2	II-34	—	—	—
0173	2#	I-150	I-10T10	II-13W2	—	—	—
A173	2#	I-10T10	I-150	II-13W2	—	—	—
0174	2#	I-150	I-11T11	II-13W2	—	—	—
0175	2#	I-150	I-0	II-25	—	—	—
B184	2#	I-150	I-0	II-34	—	—	—
0185	2#	I-10T10	I-150	II-25	—	—	—
0186	2#	I-150	I-11T11	II-25	—	—	—
0195	2#	I-150	I-11T11	II-34	—	—	—
0199	2#	I-20F12T8	I-120T2	II-59	—	—	—
0215	2#	I-121	I-60	II-34	—	—	—
0220	2#	I-150	I-0	II-70T2	—	—	—

PRODUCT COMBINATION CODE TABLE

Product combination code	Shell number	Insulation contact arrangement					
		A	B	C	D	E	F
A220	2#	I-150	I-11T11	II-59	—	—	—
0221	2#	I-121	I-0	II-100	—	—	—
0229	2#	I-150	I-20F12T8	II-59	—	—	—
0233	2#	I-150	I-60	II-13W2	—	—	—
A234	2#	I-150	I-60	II-24T4	—	—	—
0244	2#	I-150	I-60	II-34	—	—	—
0246	2#	I-120T2	I-120T2	II-6T6	—	—	—
0248	2#	I-121	I-121	II-6T6	—	—	—
0250	2#	I-150	I-0	II-100	—	—	—
A250	2#	I-0	I-150	II-100	—	—	—
0253	2#	I-120T2	I-120T2	II-13W2	—	—	—
0260	2#	I-150	I-10T10	II-100	—	—	—
0261	2#	I-150	I-11T11	II-100	—	—	—
0265	2#	I-120T2	I-120T2	II-25	—	—	—
0266	2#	I-150	I-110	II-6T6	—	—	—
0275	2#	I-121	I-120T2	II-34	—	—	—
0276	2#	I-121	I-121	II-34	—	—	—
0277	2#	I-121	I-150	II-6T6	—	—	—
0283	2#	I-150	I-120T2	II-13W2	—	—	—
0284	2#	I-150	I-121	II-13W2	—	—	—
B284	2#	I-150	I-110	II-24T4	—	—	—
B295	2#	I-150	I-121	II-24T4	—	—	—
0300	2#	I-150	I-150	II-0	—	—	—
0304	2#	I-150	I-120T2	II-34	—	—	—
0305	2#	I-150	I-121	II-34	—	—	—
0306	2#	I-150	I-150	II-6T6	—	—	—
0313	2#	I-150	I-150	II-13W2	—	—	—
0324	2#	I-150	I-150	II-24T4	—	—	—
0334	2#	I-150	I-150	II-34	—	—	—
A334	2#	I-150	I-120T2	II-64T2	—	—	—
0340	2#	I-120T2	I-120T2	II-100	—	—	—

PRODUCT COMBINATION CODE TABLE

Product combination code	Shell number	Insulation contact arrangement					
		A	B	C	D	E	F
0364	2#	I-150	I-150	II-64T2	—	—	—
0370	2#	I-150	I-120T2	II-100	—	—	—
A370	2#	I-120T2	I-150	II-100	—	—	—
0400	2#	I-150	I-150	II-100	—	—	—
0026	3#	I-0	I-0	II-13W2	I-0	I-0	II-13W2
0056	3#	I-11T11	I-11T11	II-6T6	I-11T11	I-11T11	II-6T6
A061	3#	I-36G36	I-0	II-25	I-0	I-0	II-0
0113	3#	I-0	I-0	II-100	I-0	I-0	II-13W2
A113	3#	I-0	I-0	II-13W2	I-0	I-0	II-100
0168	3#	I-11T11	I-11T11	II-100	I-11T11	I-11T11	II-24T4
0201	3#	I-150	I-11T11	II-24T4	I-10T10	I-0	II-6T6
0214	3#	I-150	I-11T11	II-6T6	I-11T11	I-11T11	II-25
0231	3#	I-121	I-10T10	II-100	I-0	I-0	II-0
A241	3#	I-120T2	I-60	II-25	I-36G36	I-0	II-0
0251	3#	I-11T11	I-11T11	II-34	I-11T11	I-150	II-34
0254	3#	I-110	I-110	II-6T6	I-11T11	I-11T11	II-6T6
0263	3#	I-0	I-0	II-13W2	I-0	I-150	II-100
A267	3#	I-36G36	I-36G36	II-59	I-36G36	I-36G36	II-64T2
A269	3#	I-36G36	I-36G36	II-25	I-36G36	I-36G36	II-100
0271	3#	I-C4	I-C4	II-13W2	I-0	I-150	II-100
A276	3#	I-150	I-60	II-25	I-60	I-11I11	II-6T6
B283	3#	I-150	I-60	II-25	I-60	I-11I11	II-13W2
A284	3#	I-10T10	I-10T10	II-100	I-120T2	I-10T10	II-34
0287	3#	I-11T11	I-11T11	II-100	I-120T2	I-11T11	II-34
A295	3#	I-150	I-60	II-25	I-60	I-11T11	II-25
A302	3#	I-36G36	I-110	II-59	I-36G36	I-36G36	II-25
A313	3#	I-150	I-0	II-13W2	I-150	I-0	II-0
0319	3#	I-150	I-60	II-25	I-60	I-11T11	II-13W2
A324	3#	I-10T10	I-10T10	II-0	I-150	I-120T2	II-34
0326	3#	I-0	I-150	II-13W2	I-0	I-150	II-13W2
0330	3#	I-150	I-120T2	II-34	I-10T10	I-10T10	II-6T6

PRODUCT COMBINATION CODE TABLE

Product combination code	Shell number	Insulation contact arrangement					
		A	B	C	D	E	F
0348	3#	I-60	I-60	II-24T4	I-60	I-110	II-34
A348	3#	I-150	I-11T11	II-13W2	I-150	I-11T11	II-13W2
0353	3#	I-11T11	I-11T11	II-25	I-150	I-150	II-6T6
0358	3#	I-150	I-120T2	II-34	I-10T10	I-10T10	II-34
0387	3#	I-11T11	I-11T11	II-6T6	I-150	I-150	II-59
0407	3#	I-150	I-110	II-100	I-11T11	I-11T11	II-25
0426	3#	I-11T11	I-150	II-100	I-10T10	I-121	II-34
0434	3#	I-150	I-150	II-0	I-121	I-0	II-13W2
0437	3#	I-150	I-150	II-6T6	I-121	I-10T10	II-13W2
0444	3#	I-150	I-121	II-13W2	I-150	I-10T10	II-0
0450	3#	I-150	I-150	II-6T6	I-121	I-10T10	II-13W2
0463	3#	I-150	I-0	II-13W2	I-150	I-150	II-0
0492	3#	I-11T11	I-150	II-100	I-10T10	I-10T10	II-34
0494	3#	I-121	I-120T2	II-6T6	I-121	I-120T2	II-6T6
0496	3#	I-121	I-121	II-6T6	I-121	I-121	II-6T6
0510	3#	I-121	I-121	II-13W2	I-121	I-121	II-13W2
0530	3#	I-120T2	I-120T2	II-25	I-120T2	I-120T2	II-25
0537	3#	I-150	I-150	II-100	I-121	I-10T10	II-6T6
0547	3#	I-60	I-150	II-13W2	I-150	I-150	II-24T4
0550	3#	I-150	I-150	II-100	I-150	I-0	II-0
0552	3#	I-121	I-121	II-34	I-121	I-121	II-34
0563	3#	I-0	I-150	II-100	I-150	I-150	II-13W2
0568	3#	I-60	I-150	II-34	I-150	I-150	II-24T4
0579	3#	I-150	I-150	II-64T2	I-121	I-60	II-34
0600	3#	I-150	I-150	II-0	I-150	I-150	II-0
0601	3#	I-150	I-150	II-24T4	I-150	I-121	II-6T6
0608	3#	I-120T2	I-150	II-34	I-120T2	I-150	II-34
0613	3#	I-150	I-150	II-13W2	I-150	I-150	II-0
0615	3#	I-150	I-60	II-100	I-150	I-150	II-25
0620	3#	I-150	I-60	II-100	I-150	I-60	II-100
A620	3#	I-150	I-150	II-100	I-60	I-60	II-100

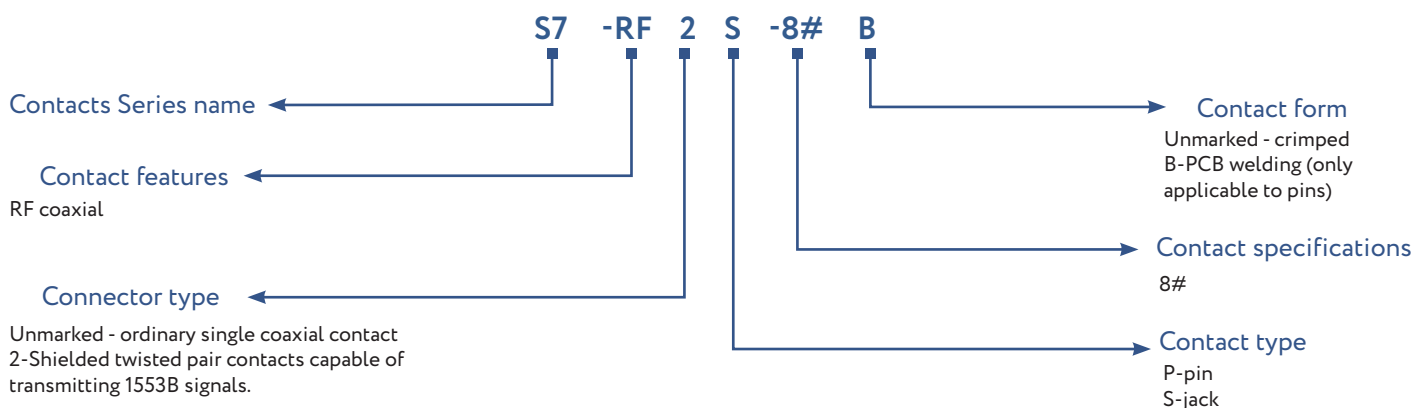
PRODUCT COMBINATION CODE TABLE

Product combination code	Shell number	Insulation contact arrangement					
		A	B	C	D	E	F
0621	3#	I-150	I-11T11	II-100	I-150	I-110	II-100
0626	3#	I-150	I-150	II-13W2	I-150	I-150	II-13W2
0630	3#	I-150	I-150	II-6T6	I-150	I-150	II-24T4
0632	3#	I-150	I-11T11	II-100	I-150	I-121	II-100
A324	3#	I-10T10	I-10T10	II-0	I-150	I-120T2	II-34
A648	3#	I-150	I-150	II-24T4	I-150	I-150	II-24T4
0695	3#	I-150	I-150	II-24T4	I-150	I-121	II-100
0698	3#	I-150	I-150	II-64T2	I-150	I-150	II-34
0713	3#	I-150	I-150	II-100	I-150	I-150	II-13W2
A713	3#	I-150	I-150	II-13W2	I-150	I-150	II-100
0724	3#	I-150	I-150	II-100	I-150	I-150	II-24T4
0734	3#	I-150	I-150	II-100	I-150	I-150	II-34
0742	3#	I-121	I-150	II-100	I-121	I-150	II-100
0800	3#	I-150	I-150	II-100	I-150	I-150	II-100

RF CONTACT

The S6 series products can install 8 # RF contacts at the 8 # hole position to achieve RF signal transmission. The working frequency of the standard 8 # RF contact is 0-500MHz.

STANDARD 8 # RF CONTACT MODEL NAMING

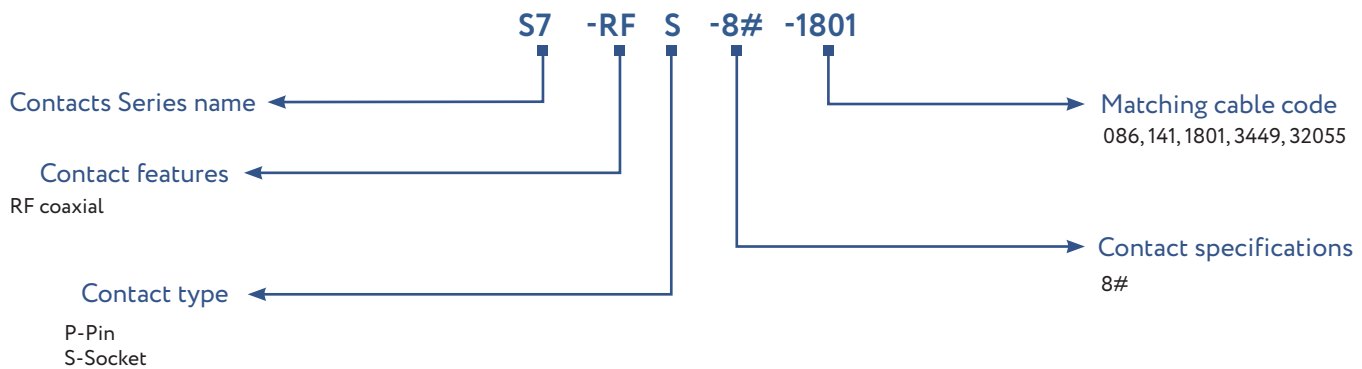


The S6 series connectors are mainly used on chassis and cabinets. Due to the inevitable large gap between the cabinet and the installation rack, the reference planes of the coaxial contact pins and sockets cannot be fully inserted in place. Moreover, when multiple pins and sockets are inserted, the insertion surfaces of each pin and socket may not be completely consistent, resulting in impedance discontinuity in the RF signal transmission channel. It will directly affect the voltage standing wave ratio and transmission loss in the high-frequency range, causing the equipment to be unable to work properly. To solve the above problems, our company has designed coaxial contacts with axial floating, radial positioning, and sealing.

The floating coaxial contact not only meets the environmental indicators of ARINC600 and MIL-DTL-83527B rectangular cabinet connectors, but also meets the following requirements:

- Impedance: 50 Ω
- The working environment temperature is -65°C~150°C
- Maximum operating frequency 18GHz
- Insertion loss not greater than 0.3dB
- Connecting stable phase low loss coaxial cables

MODEL DESIGNATION OF FLOATING RADIO FREQUENCY CONTACTS

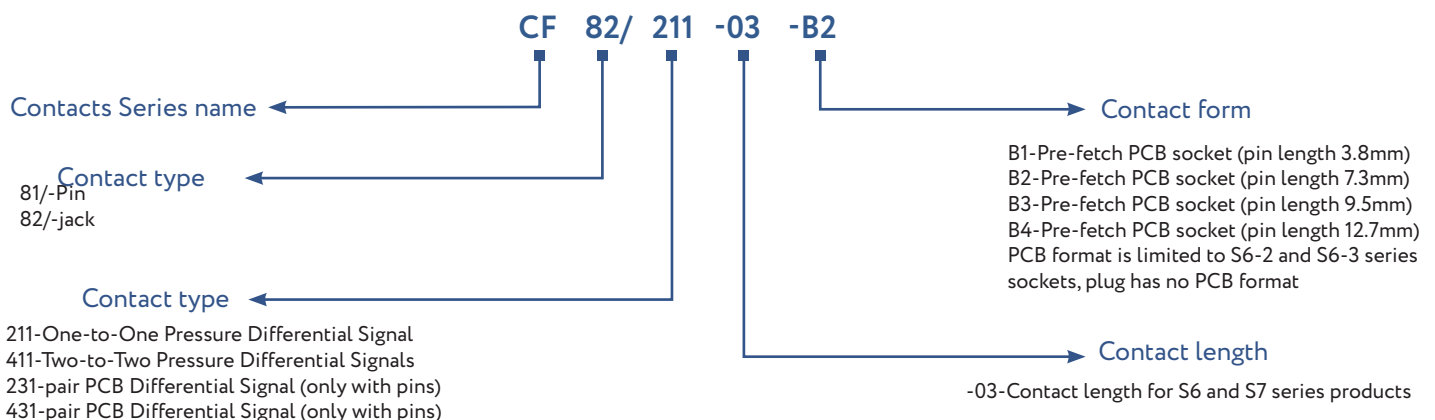


Cable code	Cable type	Maximum frequency of cable (GHz)
141	SFT-50-3-1, 670-141, 670-141SXE	18
1801	IW1801	34
3449	CXN3449	18

DIFFERENTIAL CONTACTS

The 8#hole position of the S6 series products can be equipped with 8#differential contact components for differential signal transmission (such as AFDX signal, DVI signal, Gigabit Ethernet signal, ARINC429 signal)

MODEL NAMING FOR DIFFERENTIAL CONTACT PARTS



SHAPE SIZE

1#PLUG HOUSING



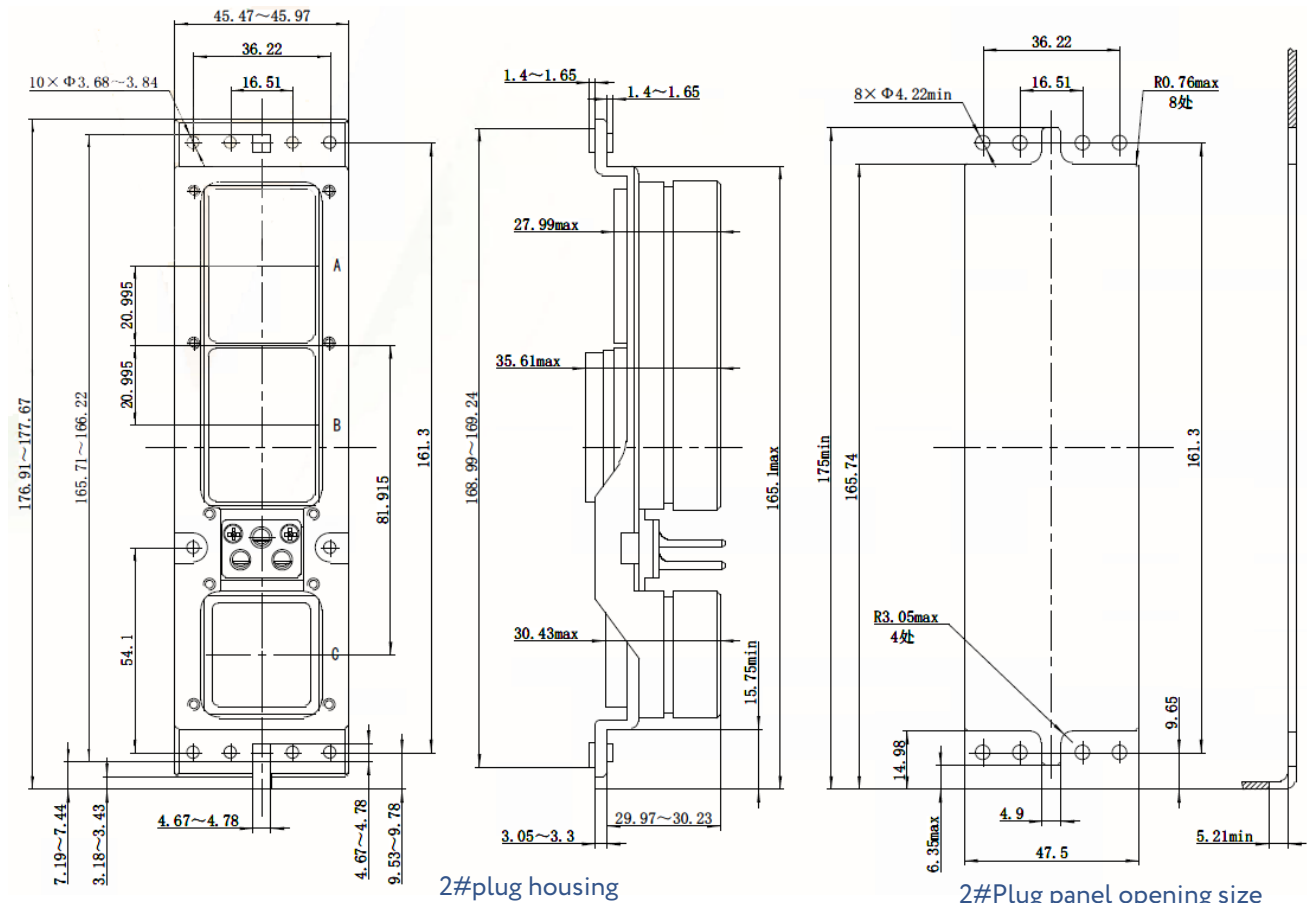
1#Plug panel opening size

1#SOCKET HOUSING



SHAPE SIZE

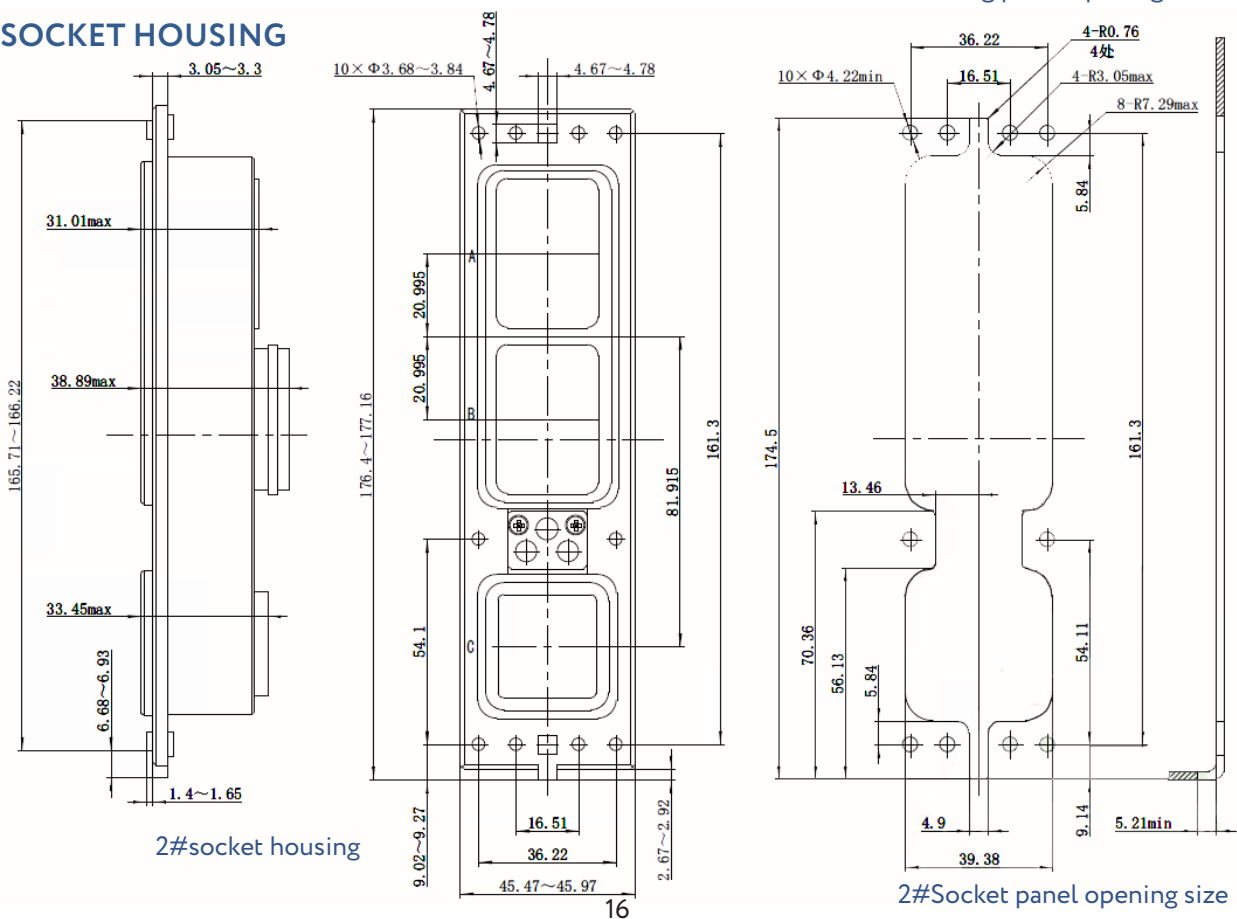
2#PLUG HOUSING



2#plug housing

2#Plug panel opening size

2#SOCKET HOUSING

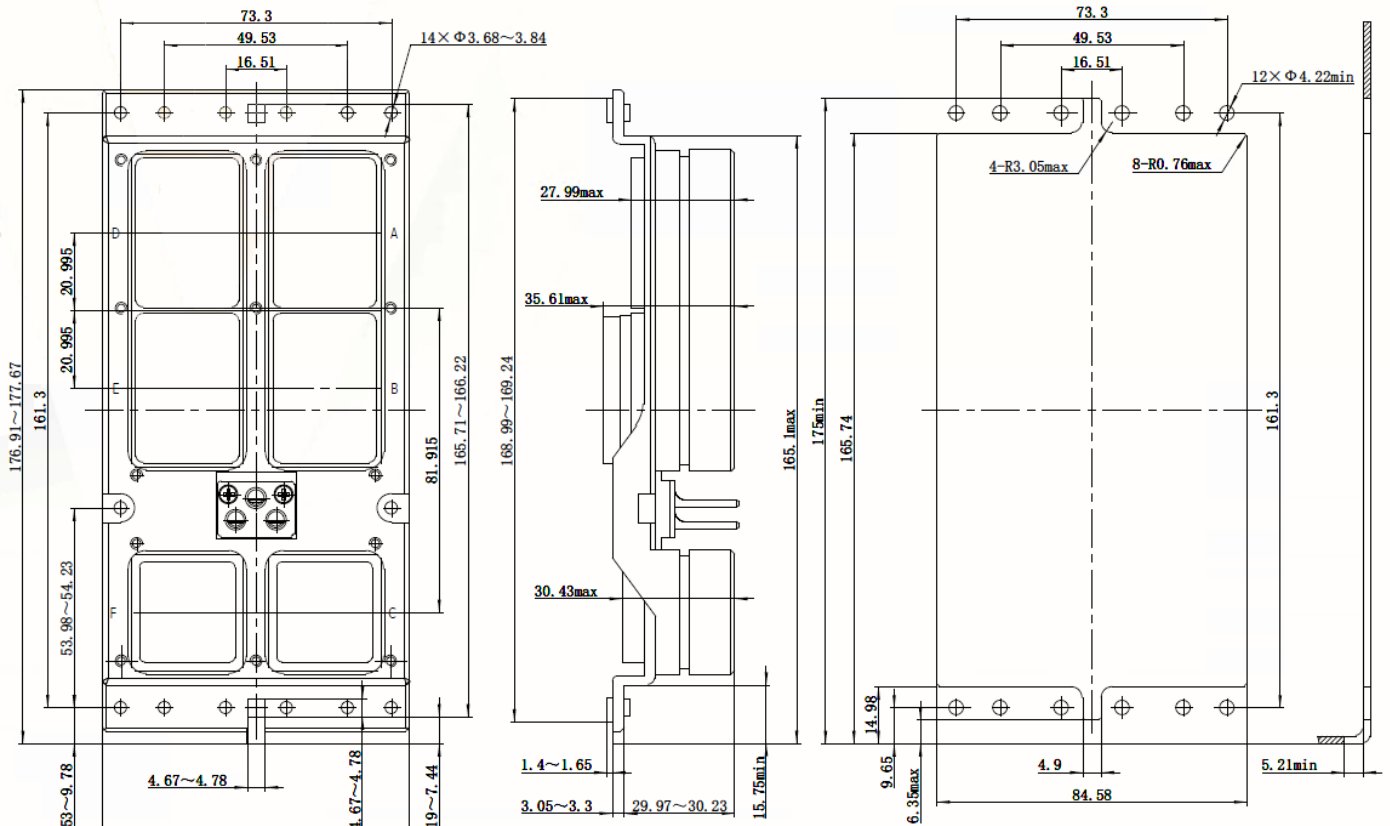


2#socket housing

2#Socket panel opening size

SHAPE SIZE

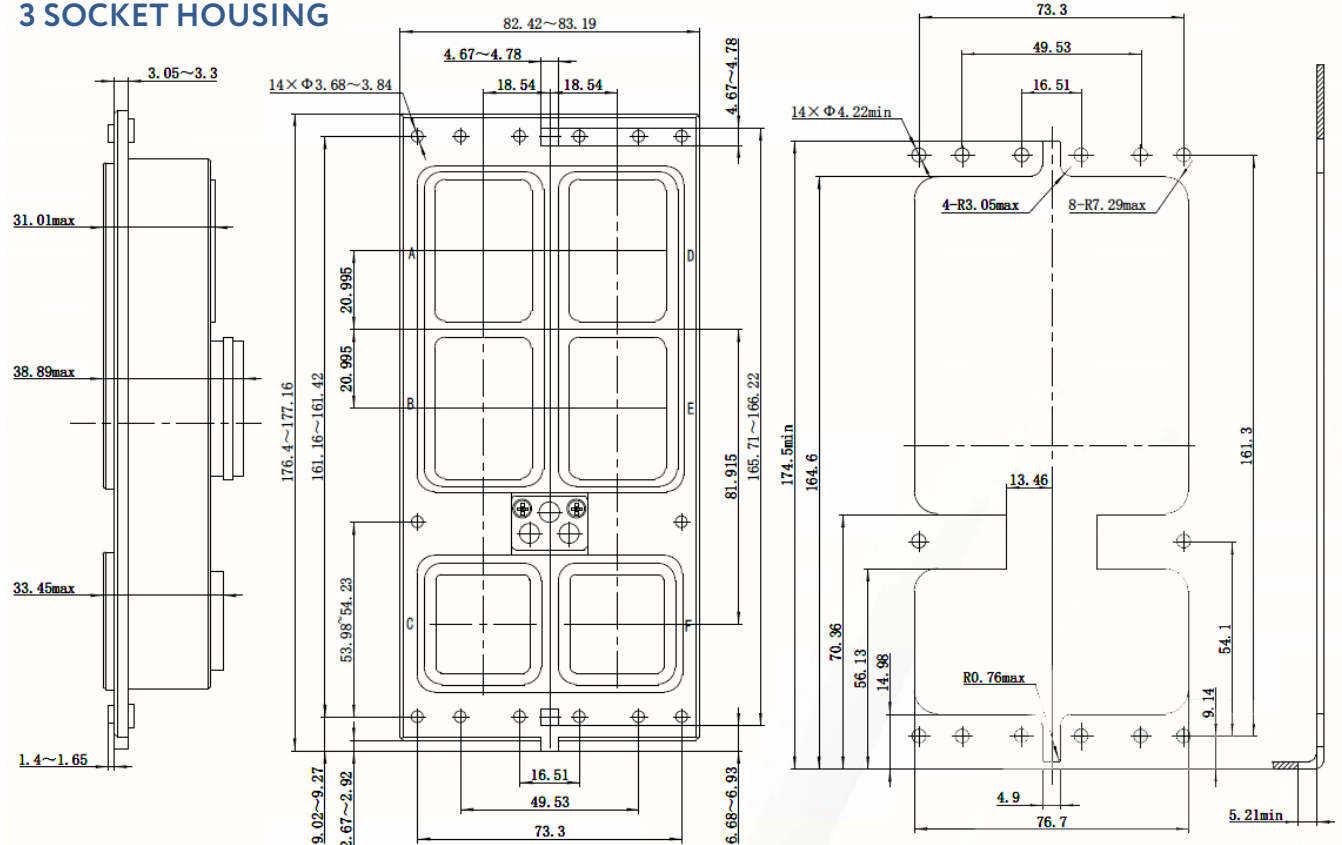
3#PLUG HOUSING



3#plug housing

3#Plug panel opening size

3 SOCKET HOUSING

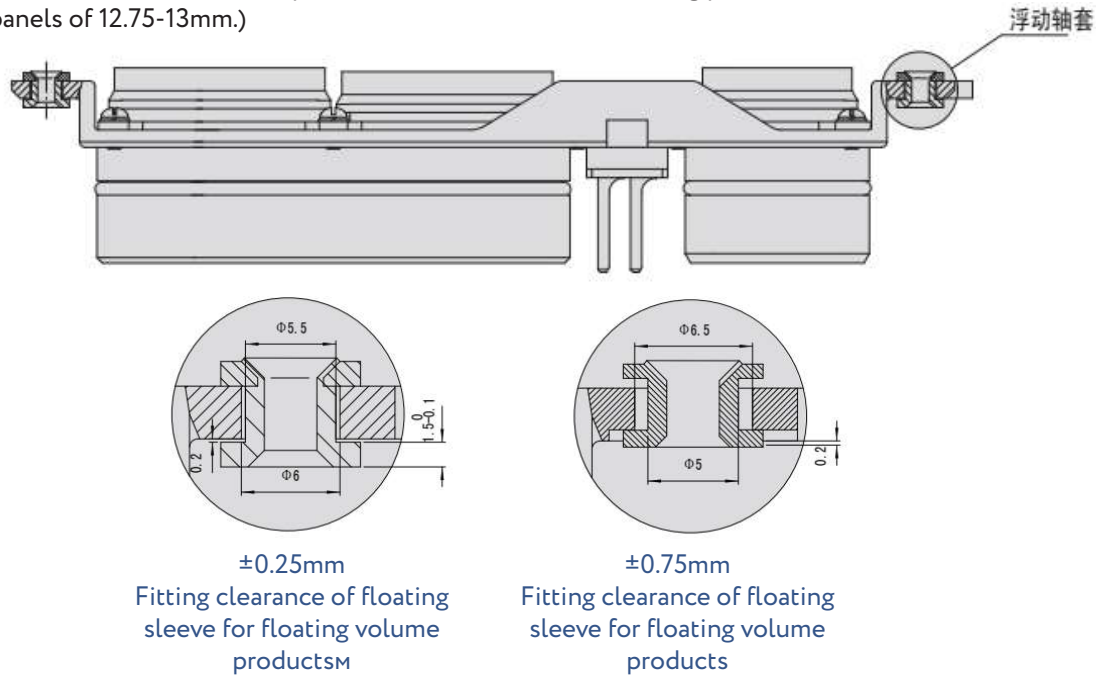


3#socket housing

3#Socket panel opening size

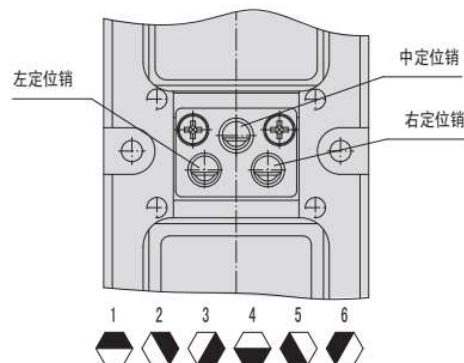
FLOATING INSTALLATION DIAGRAM

The S6 series floating products are divided into two types, one is the floating product with a floating amount of $\pm 0.25\text{mm}$, the other is the floating product with a floating amount of $\pm 0.75\text{mm}$. Both of them are floating by installing a floating sleeve on the plug, which ensures the smooth alignment of the plug socket after installation. The following figure shows the floating installation of the S6 series plug housing. Note that only four to six mounting holes can be used in floating mounting to reduce friction between the floating sleeve and the panel for floating function. (Note: $\pm 0.25\text{mm}$ floating product should have a distance between two mounting panels minus the thickness of floating sleeve 1.5 The distance between two panels is 11.4-11.8, $\pm 0.75\text{mm}$ floating product should have a distance between two mounting panels of 12.75-13mm.)



ANTI-MIS-INSERTION DEVICE

CONNECTOR POSITIONING IDENTIFICATION DEVICE



The blackened part represents the extension part of the guide pin or the projection part of the guide sleeve (the socket surface)



Plug				Socket				Plug				Socket			
Key Bit Encoding	Left positioning pin	Med. positioning pin	Right positioning pin	Position	Left positioning pin	Med. positioning pin	Right positioning pin	Key Bit Encoding	Left positioning pin	Med. positioning pin	Right positioning pin	Key Bit Encoding	Left positioning pin	Med. positioning pin	Right positioning pin
00	--	--	--	00	--	--	--	37	1	2	1	37	4	3	4
01	1	1	1	01	4	4	4	38	2	2	1	38	4	3	3
02	2	1	1	02	4	4	3	39	3	2	1	39	4	3	2
03	3	1	1	03	4	4	2	40	4	2	1	40	4	3	1
04	4	1	1	04	4	4	1	41	5	2	1	41	4	3	6
05	5	1	1	05	4	4	6	42	6	2	1	42	4	3	5
06	6	1	1	06	4	4	5	43	1	2	6	43	5	3	4
07	1	1	6	07	5	4	4	44	2	2	6	44	5	3	3
08	2	1	6	08	5	4	3	45	3	2	6	45	5	3	2
09	3	1	6	09	5	4	2	46	4	2	6	46	5	3	1
10	4	1	6	10	5	4	1	47	5	2	6	47	5	3	6
11	5	1	6	11	5	4	6	48	6	2	6	48	5	3	5
12	6	1	6	12	5	4	5	49	1	2	5	49	6	3	4
13	1	1	5	13	6	4	4	50	2	2	5	50	6	3	3
14	2	1	5	14	6	4	3	51	3	2	5	51	6	3	2
15	3	1	5	15	6	4	2	52	4	2	5	52	6	3	1
16	4	1	5	16	6	4	1	53	5	2	5	53	6	3	6
17	5	1	5	17	6	4	6	54	6	2	5	54	6	3	5
18	6	1	5	18	6	4	5	55	1	2	4	55	1	3	4
19	1	1	4	19	1	4	4	56	2	2	4	56	1	3	3
20	2	1	4	20	1	4	3	57	3	2	4	57	1	3	2
21	3	1	4	21	1	4	2	58	4	2	4	58	1	3	1
22	4	1	4	22	1	4	1	59	5	2	4	59	1	3	6
23	5	1	4	23	1	4	6	60	6	2	4	60	1	3	5
24	6	1	4	24	1	4	5	61	1	2	3	61	2	3	4



Plug				Socket				Plug				Socket			
Key Bit Enco-ding	Left posi-tioning pin	Med. posi-tioning pin	Right posi-tioning pin	Positi-on	Left posi-tioning pin	Med. posi-tioning pin	Right posi-tioning pin	Key Bit Enco-ding	Left posi-tioning pin	Med. posi-tioning pin	Right posi-tioning pin	Key Bit Enco-ding	Left posi-tioning pin	Med. posi-tioning pin	Right posi-tioning pin
25	1	1	3	25	2	4	4	62	2	2	3	62	2	3	3
26	2	1	3	26	2	4	3	63	3	2	3	63	2	3	2
27	3	1	3	27	2	4	2	64	4	2	3	64	2	3	1
28	4	1	3	28	2	4	1	65	5	2	3	65	2	3	6
29	5	1	3	29	2	4	6	66	6	2	3	66	2	3	5
30	6	1	3	30	2	4	5	67	1	2	2	67	3	3	4
31	1	1	2	31	3	4	4	68	2	2	2	68	3	3	3
32	2	1	2	32	3	4	3	69	3	2	2	69	3	3	2
33	3	1	2	33	3	4	2	70	4	2	2	70	3	3	1
34	4	1	2	34	3	4	1	71	5	2	2	71	3	3	6
35	5	1	2	35	3	4	6	72	6	2	2	72	3	3	5
36	6	1	2	36	3	4	5	73	1	3	1	73	4	2	4
74	2	3	1	74	4	2	3	87	3	3	5	87	6	2	2
75	3	3	1	75	4	2	2	88	4	3	5	88	6	2	1
76	4	3	1	76	4	2	1	89	5	3	5	89	6	2	6
77	5	3	1	77	4	2	6	90	6	3	5	90	6	2	5
78	6	3	1	78	4	2	5	91	1	3	4	91	1	2	4
79	1	3	6	79	5	2	4	92	2	3	4	92	1	2	3
80	2	3	6	80	5	2	3	93	3	3	4	93	1	2	2
81	3	3	6	81	5	2	2	94	4	3	4	94	1	2	1
82	4	3	6	82	5	2	1	95	5	3	4	95	1	2	6
83	5	3	6	83	5	2	6	96	6	3	4	96	1	2	5
84	6	3	6	84	5	2	5	97	1	3	3	97	2	2	4
85	1	3	5	85	6	2	4	98	2	3	3	98	2	2	3
86	2	3	5	86	6	2	3	99	3	3	3	99	2	2	2



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