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捷科科技 /// S6 系列连接器选型手册

JETSTEC TECHNOLOGY /// S6 SERIES CONNECTOR

NEW ENERGY 新能源 / ENERGY STORAGE 基站储能 / RAIL TRANSIT 轨道交通 / POWER 电力系统 / MILITARY 军工系统 / TECHNOLOGY 核心科技

LEADER FOR CONNECTIVITY SOLUTIONS

连接解决方案领跑者

JETSTEC TECHNOLOGY BROCHURE

COMPANY PROFILE

Henan Joint Technology Co., Ltd. (hereinafter referred to as Joint) is a direct high tech enterprises that focus on the connection solutions of electronic industry in the subdivided field. Products are widely used in new energy vehicles, energy storage, power grid, communication, aerospace, military industry, etc. The company takes R & D as the leading, adopts the lean production mode of whole process, whole process and internal vertical integration to provide customers with high-end technology, reliable products, customized solutions and perfect quality assurance.

Joint was founded in July 2019, with the active efforts of all staff, Joint has served more than 50 well-known enterprises at home and abroad. In August 2020, the company ushered in a new development opportunity. Mengdian, a well-known enterprise in Henan Province, holds Joint technology, providing strong financial support and talent guarantee for the development of the enterprise. Use our core values to achieve customers and teams. It is our consistent idea to develop first-class technology, cultivate first-class team and serve first-class customers.


CERTIFICATE

The Certification Body of TÜV SÜD Management Service GmbH certifies that

HENAN JETSTEC CONNECT TECHNOLOGY CO.,Ltd.
Zone A, Floor 1, Standard Workshop No.9, 299, Xindong Avenue (South), Hongqi District, Xinxiang City, Henan Province, P.R. China
Post Code: 453000

has established and applies a Quality Management System for

Design and Manufacture of Connectors and Harnesses (with Product Design as per Chapter 8.3).

An audit was performed and has furnished proof that the requirements according to

IATF 16949
First Edition 2016-10-01

are fulfilled.

Issue date: 2021-01-13
Expiry date: 2024-01-12
Certificate Registration No.: 12 111 61262 TMS
IATF Certificate No.: 0380670

Head of Certification Body
Munich, 2021-01-13

Page 1 of 1


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Zone A, Floor 1, Standard Workshop No.9, 299, Xindong Avenue (South), Hongqi District, Xinxiang City, Henan Province, P.R. China
Post Code: 453000
Unified social credit code: 91410702MA4728L58A

has established and applies a Quality Management System for

Design, Manufacture and Sales of Connectors and Harnesses.

An audit was performed, Order No. 7482311515
Proof has been furnished that the requirements according to

ISO 9001:2015

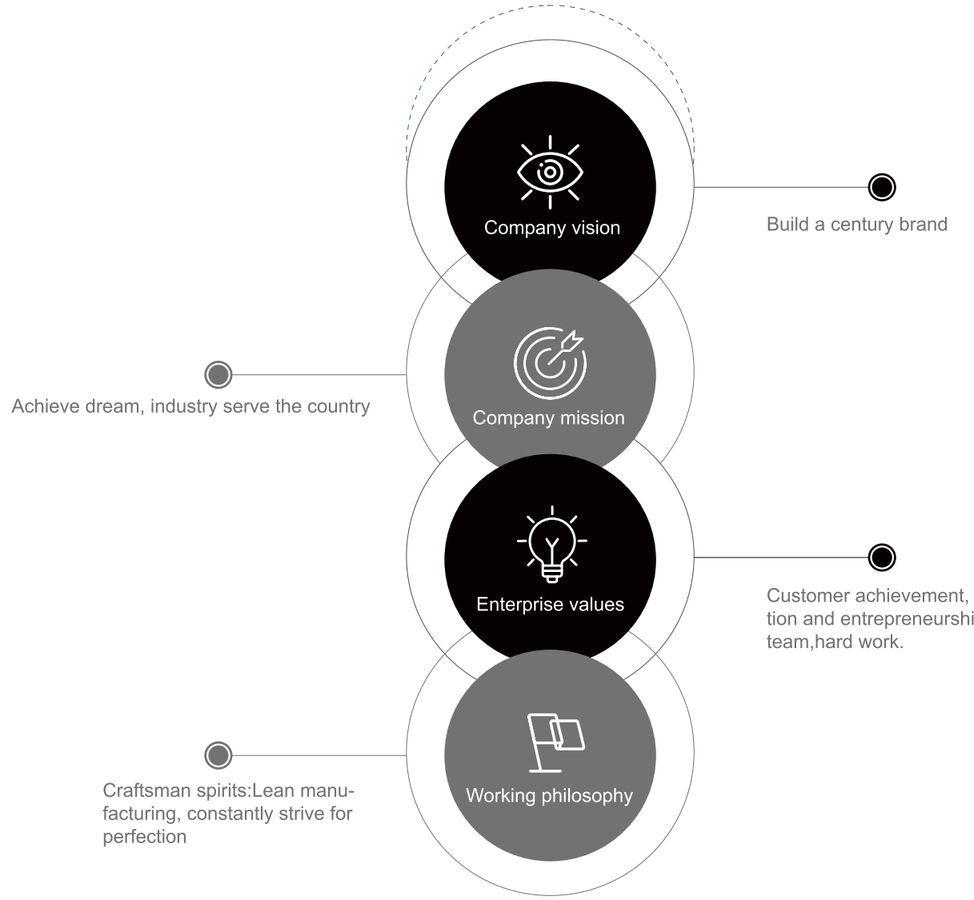
are fulfilled.

The certificate is valid from 2021-01-13 until 2024-01-12.
The certified organization shall undergo and pass the regular surveillance audit to maintain the validity of this certificate.
Certificate Registration No.: 12 100 61282 TMS

Head of Certification Body
Munich, 2021-01-13

新能源 NEW ENERGY / 基站储能 ENERGY STORAGE / 轨道交通 RAIL TRANSIT / 电力系统 POWER / 军工系统 MILITARY / 核心科技 TECHNOLOGY

COMPANY CULTURE



S6(ARINC600)
SERIES CONNECTOR

PRODUCT INTRODUCTION

Comply with ARINC600 standard

Adopts hexagonal coding to prevent errors, with 99 error-proof keys

Different shell materials and coatings can be used to adapt to different environmental requirements

＞Integrated signal transmission, different contact types, including low frequency, power, high speed differential, high frequency and optical contacts

＞Module structure, different combination of insulator and shell to meet different need

Standard 8# RF contact working frequency 0～500 MHz, float 8# RF contact working frequency 0～18GHz

【Main technical characteristics】

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

Low-frequency contact's rated current, contact resistance, withstanding voltage

Contact	AWG	Rated current	Contact resistance	Withstanding voltage		
				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】

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

【CAN bus signal and ARINC429 signal】

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

【1553B signal】

Transmission rate		1Mbps
Characteristics impedance		70~85Ω
Rated voltage	Sea level	500V
	21000m	125V
Voltage drop	Inner contact	<55mV/1A
	Middle contact	<55mV/1A
	Outer contact	<75mV/12A

【High frequency signal】

Coaxial contact size		Standard #8 Coaxial	Standard #5 Coaxial	Standard #1 Coaxial
Characteristics impedance		75Q		50Q
Band width		0~500MHz		0~2GHz
Withstanding voltage	Sea level	750V		
Voltage drop	Inner contact	≤ 10mQ		
	Outer contact	≤ 1.5mQ		
VSWR		≤1. 3		≤1.5
Insertion loss		≤ 0.3dB		

【Optical signal】

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

【Ordering information】

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

Basic series

Connector type

Blank-Environment resistant (sealed)
N-Non-environment resistant(unsealed)

Connector type

Blank-Electrical connector
G-Optical hybrid

Plating

F-Electroless nickel plating
W-Cadmium
M-Resistant to marine environments

Shell size

1-3 cavities narrow shell
2-3 cavities standard shell
3-6 cavities standard shell

Plug and receptacle, contact size

TS-Plug (with socket)
ZP-Receptacle (with pin)

Contact type

Y-Crimp
B-Rear removal PCB
B1-Front removal PCB (Pin Length 3.8mm)
B2-Front removal PCB (Pin Length 7.3mm)
B3-Front removal PCB (Pin Length 9.5mm)
B4-Front removal PCB (Pin Length 12.7mm)
PCB form for S6-2,S6-3 series sockets only, Plug without PCB form
B2 Front removal PCB can replace Class B Rear removal PCB.

Contact layout

0086 (See the contact layout figure)

Positioning key

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

Installation method

Blank-Standard installation
F-Floating installation (floating amount ±0.25mm)
F01-large floating installation (floating amount ±0.75mm)

Shielded device

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

Mounting hole type

Blank through-hole mounting
G-M3 threaded hole mounting

Retrofit design number

-01,-02……

Part number example

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

Notes

1.Pins should be installed in the 22D insert of plug and sockets should be installed in the other inserts. Sockets should be installed in the 22D insert of receptacle and pins should be installed in the other inserts. Other contact sizes, not 22D contact size, would be considered during ordering;

2. 22D, 20#, 16# and 12# contacts can be supplied with the finished products and applicable high frequency, coaxial, differential and optical fiber contacts should be ordered separately;

3. There is no locking mechanism between plug and receptacle and the locking can be met by the locking mechanism of the applicable equipment. The mounting style and the mating dimension is in picture 1.

4. S6 series metal rack connector is mounted on the board through screws. Receptacle uses rear mounting, which is mounted inside the cabinet. See picture one for details.

5. If customer orders float products, to ensure the products float effect, choose 4~6 mounting hole on the flange to mount it. Float range ±0.25mm. If customers use crosswise mounting type, the plug needs to be 0.5mm upside the receptacle in vertical direction. It is because there would be some small interval in the mounting.

6. In the mating process, the mounting dimension should be designed according to the cabinet and the rack dimension. If the receptacle is upside the plug, the connectors can't be mated.

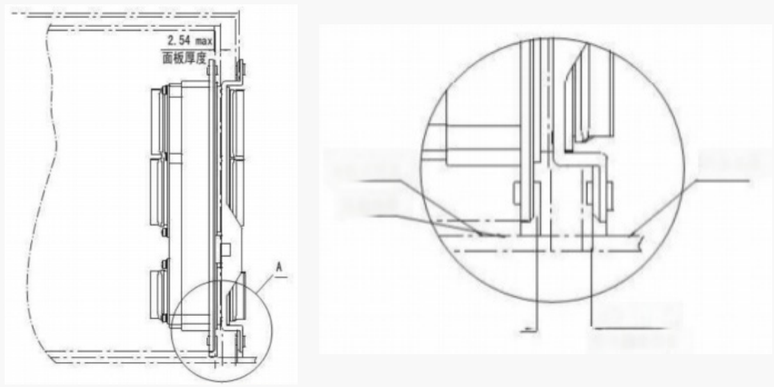
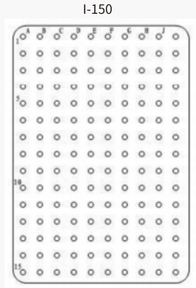
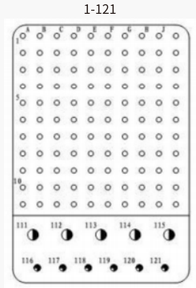
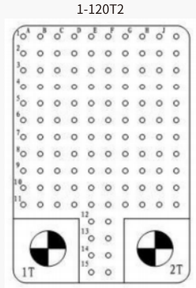
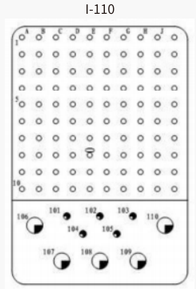
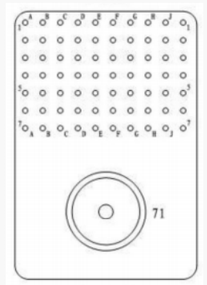
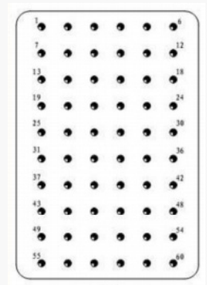
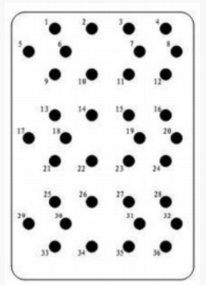
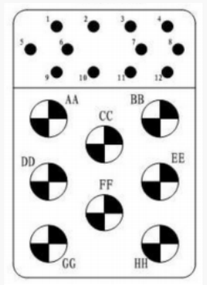
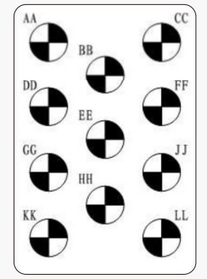
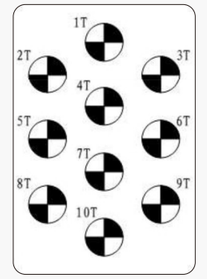
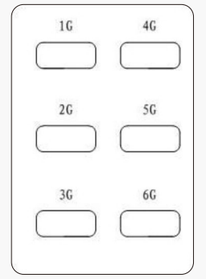
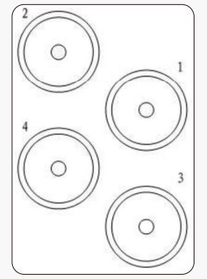
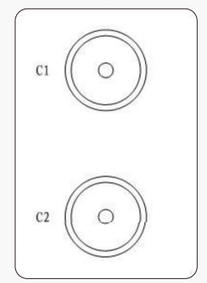
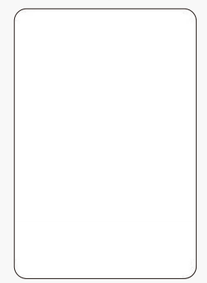


Figure 1 S6 series standard installation plug and receptacle installation dimensions

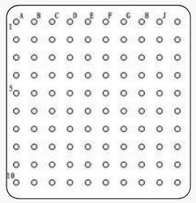
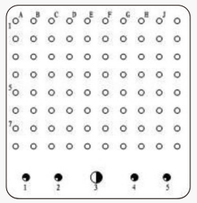
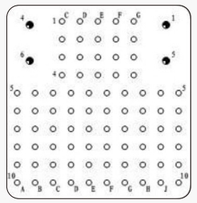
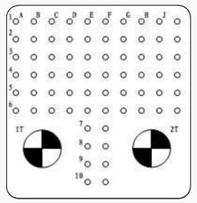
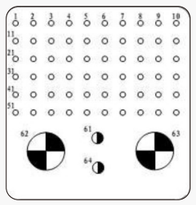
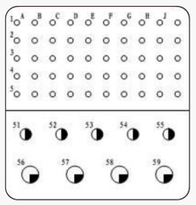
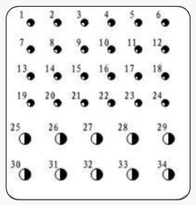
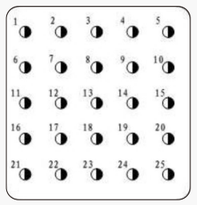
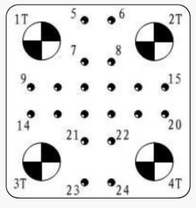
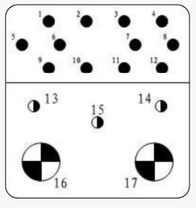
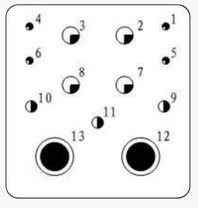
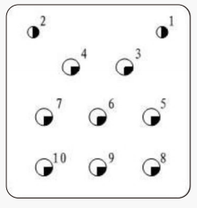
【Contact layout (Mating view of receptacle insulator)】

Standard shell A/B/D/E cavity layout			
I-150	1-121	1-120T2	I-110
			
150-22D	110-22D,6-20#,5-16#	118-22D,2-8#	100-22D,5-20#,5-12#

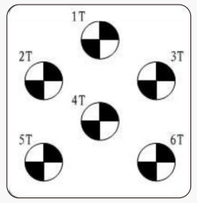
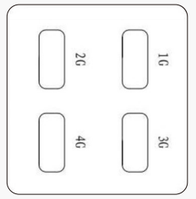
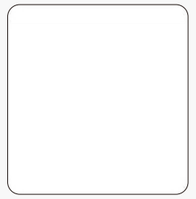
Standard shell A/B/D/E cavity layout			
I-71C1	I-60	I-36G36	I-20F12T8
			
70-22D,1-1#	60-20#	36-A8T	12-A8T,8-8#
I-11T11	I-10T10	I-6M6	I-C4
			
11-8#	10-8#	6-MP0	4-1#
I-C2	I-0		
			
2-1#	No contact parts		

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

Standard shell C/F cavity layout

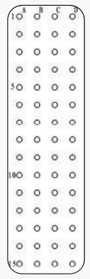
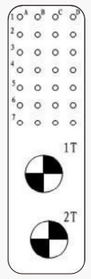
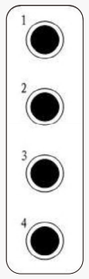
II-100  100-22D	II-85  80-22D，4-20#，1-16#	II-84  80-22D，4-20#	II-70T2  68-22D，2-8#
II-64T2  60-22D，2-16#，2-8#	II-59  50-22D，5-16#，4-12#	II-34  24-20#，10-16#	II-25  25-16#
II-24T4  20-20#，4-8#	II-17F12T2  12-A8T，3-16#，2-8#	II-13W2  4-20#，3-16#，4-12#，2-5#	II-10  2-16#，8-12#

Standard shell C/F cavity layout

II-6T6  6-8#	II-4M4  4-MP0	II-0  No contact parts	

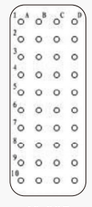
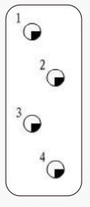
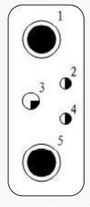
Contact size: ○22D ◔ 20# ◑ 16# ◕ 12# ● 8# ● 5# ○ 1# ● A8T

Standard shell C/F cavity layout

I-60  60-22D	I-30T2  28-22D，2-8#	I-W4  4-5#	I-0  No contact parts

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

Standard shell C/F cavity layout

II-40  40-22D	II-4  4-12#	II-5W2  2-16#，1-12#，2-5#	II-0  No contact parts

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

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

【Product combination code figure】

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

Code	Shell size	Insulator layout					
		A	B	C	D	E	F
144	2#	I-120T4	I-11T11	II-13W2	——	——	——
A144	2#	I-60	I-60	II-24T4	——	——	——
0150	2#	1-0	1-150	11-0	——	——	——
A150	2#	I-150	1-0	I1-0	——	——	——
0154	2#	1-60	I-60	II-34	——	——	——
0155	2#	1-71C1	I-71C1	II-13W2	——	——	——
B155	2#	I-11T11	I-110	II-34	——	——	——
0156	2#	T-12072	T-11T11	TT-25	——	——	——
A160	2#	I-10T10	1-150	11-0	——	——	——
0163	2#	I-0	I-150	II-13W2	——	——	——
A163	2#	I-150	I-0	II-13W2	——	——	——
A165	2#	I-11T11	1-120T2	I-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	——	——	——
A220	2#	I-150	I-11T11	II-59	——	——	——
0221	2#	1-121	I-0	II-100	——	——	——
0229	2#	1-150	I-20F1218	II-59	——	——	——
0233	2#	I-150	I-60	II-13W2	——	——	——
A294	2#	T-150	T-60	IT-94T4	——	——	——
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	1-0	I1-100	——	——	——
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	——	——	——

Code	Shell size	Insulator layout					
		A	B	C	D	E	F
0275	2#	I-121	I-120T2	II-34	——	——	——
0276	2#	I-121	I-121	II-34	——	——	——
0277	2#	I-121	1-150	I1-6T6	——	——	——
0283	2#	I-150	I-120T2	II-13W2	——	——	——
0284	2#	I-150	I-121	II-13W2	——	——	——
B284	2#	1-150	1-110	II-24T4	——	——	——
B295	2#	I-150	I-121	II-24T4	——	——	——
0300	2#	T-150	T-150	TI-0	——	——	——
0304	2#	I-150	1-120T2	II-34	——	——	——
0305	2#	I-150	1-121	II-34			
0306	2#	I-150	I-150	II-6T6	——	——	——
0313	2#	I-150	1-150	II-13W2	——	——	——
0324	2#	I-150	I-150	II-24T4	——	——	——
0334	2#	I-150	I-150	II-34	——	——	——
A334	2#	I-150	1-120T2	II-64T2	——	——	——
0340	2#	I-120T2	I-120T2	II-100	——	——	——
0364	2#	I-150	I-150	II-64T2	——	——	——
0370	2#	I-150	I-120T2	I1-100	——	——	——
A370	2#	I-120T2	I-150	II-100	——	——	——
0400	2#	I-150	I-150	II-100	——	——	——
0026	3#	I-0	1-0	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	1-11T11	I1-100	I-11T11	1-11T11	II-24T4
0201	3#	I-150	I-11T11	II-24T4	I-10T10	I-0	II-6T6
0214	3#	T-150	T-11T11	TT-6T6	T-11T11	T-11T11	TT-95
0231	3#	I-121	1-10T10	11-100	I-0	I-0	11-0
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	I1-6T6	I-11T11	1-11T11	II-6T6
0263	3#	I-0	I-0	II-13W2	I-0	I-150	II-100
A267	3#	I-36636	I-36636	II-59	I-36636	I-36636	II-64T2
A269	3#	I-36G36	I-36G36	II-25	I-36636	1-36636	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

Code	Shell size	Insulator layout					
		A	B	C	D	E	F
A284	3#	I-10T10	I-10T10	II-100	I-120T2	I-10T10	II-34
0287	3#	I-11T11	I-11T11	II-100	I-120T2	I-11T11	II-34
A295	3#	1-150	I-60	II-25	1-60	1-11T11	II-25
A302	3#	I-36G36	1-110	II-59	I-36636	I-36G36	II-25
A313	3#	I-150	I-0	II-13W2	I-150	I-0	II-0
0319	3#	1-150	I-60	II-25	1-60	1-11T11	II-13W2
A324	3#	I-10T10	I-10T10	I1-0	I-150	I-120T2	II-34
0326	3#	T-0	T-150	TT-13W2	T-0	I-150	TT-13W2
0330	3#	I-150	1-120T2	II-34	I-10T10	1-10T10	11-6T6
0348	3#	I-60	I-60	II-24T4	I-60	I-110	II-34
A348	3#	I-150	I-11T11	II-13W2	I-150	I-11T11	II-13W2
0353	3#	I-11T11	1-11T11	II-25	I-150	1-150	11-6T6
0358	3#	I-150	I-120T2	II-34	I-10T10	I-10T10	II-34
0387	3#	I-11T11	I-11T11	II-6T6	I-150	1-150	II-59
0407	3#	I-150	I-110	I1-100	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	1-120T2	I-25	I-120T2	1-120T2	I-25
0537	3#	I-150	I-150	II-100	I-121	I-10T10	II-6T6
0547	3#	1-60	T-150	TT-13W9	T-150	T-150	TT-94T4
0550	3#	I-150	1-150	I1-100	I-150	I-0	11-0
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#	1-60	1-150	I-34	I-150	I-150	II-24T4
0579	3#	I-150	I-150	II-64T2	I-121	I-60	II-34
0600	3#	I-150	I-150	II-0	I-150	I-150	II-0
0601	3#	I-150	1-150	II-24T4	I-150	I-121	II-6T6
0608	3#	I-120T2	I-150	II-34	I-120T2	I-150	II-34
0613	3#	I-150	I-150	II-13W2	I-150	I-150	II-0
0615	3#	I-150	I-60	II-100	I-150	I-150	II-25

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

【RF contact】

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

Ordering information for standard #8 RF contact

S7 -RF 2 S -8F# B

Basic series

Contact feature
RF coaxial

Contact type
Blank- Normal single coaxial contacts
2 - Shielded twisted pair contacts for 1553B Signals

Contact type
Blank- Crimp
B - PCB soldering (pins only)

Contact size
8#

Contact style
P - Pin
S - socket

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

Besides meeting the requirements of ARINC and MIMIL-DTL-83527B, S7 RF contacts can meet the following requirements：
——Impedance: 50Ω
——Operating temperature:-65°C ~150°C
——The highest frequency:18GHz
——Insertion loss: no more than 0.3dB
——Applicable to stable phrase and low loss RF cable

Ordering information for floating RF contact

S7 -RF S -8# -1801

Basic series

Contact feature
RF coaxial

Contact type
P-Pin
S-socket

Applicable cable code
086、1 4 1 、1801 、
3449、32055

Contact size
8#

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

【Differential contact】

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

Ordering information

CF 82/ 211 -03 -B2

Basic series

Contact style
81/-Pin
82/-Socket

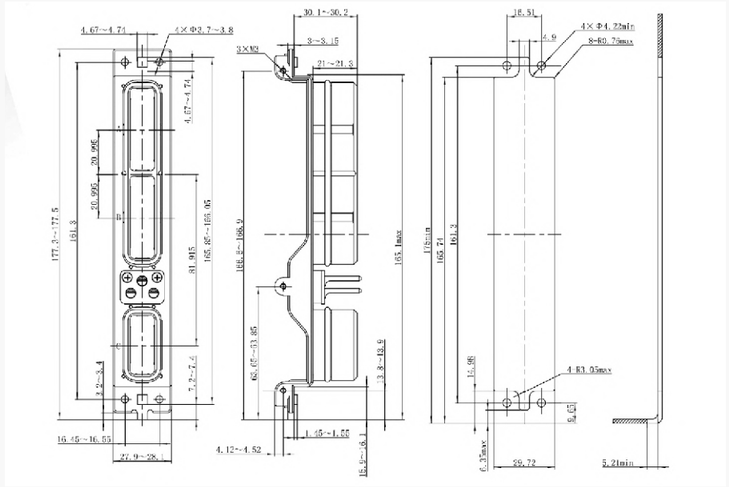
Contact type
211-a pair of crimped differential signals
411-two pairs of crimped differential signals
231-a pair of PCB differential signals (Only for pin)
431-two pairs of PCB differential signals (Only for pin)

Contact form
B1-Front removal PCB receptacle (Pin Length 3.8mm)
B2-Front removal PCB receptacle (Pin Length 7.3mm)
B3-Front removal PCB receptacle (Pin Length 9.5mm)
B4-Front removal PCB receptacle (Pin Length 12.7mm)
-PCB form limited to S6-2 and S6-3 series receptacles
- Plug without PCB form

Contact length
-03 denote the length of S6 and S7 contacts

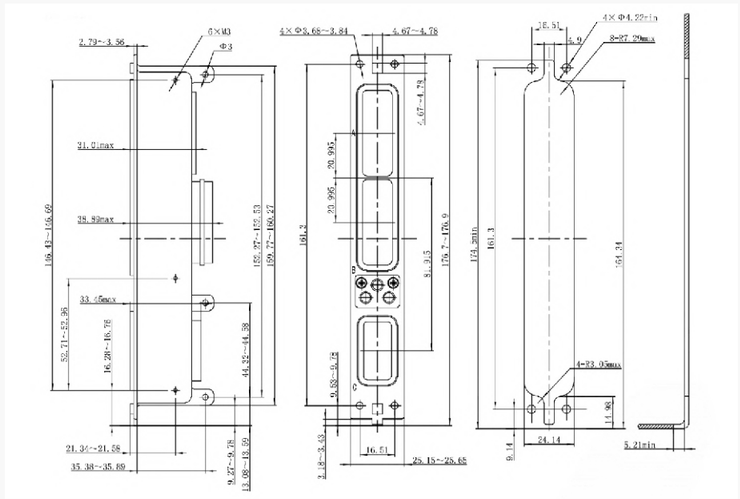
【Outline dimension】

1# Plug shell



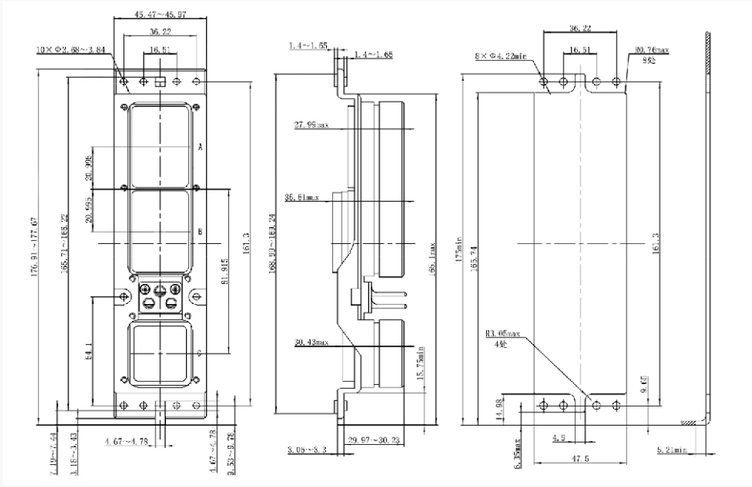
1# Plug shell　　1# Plug panel opening size

1# Receptacle shell



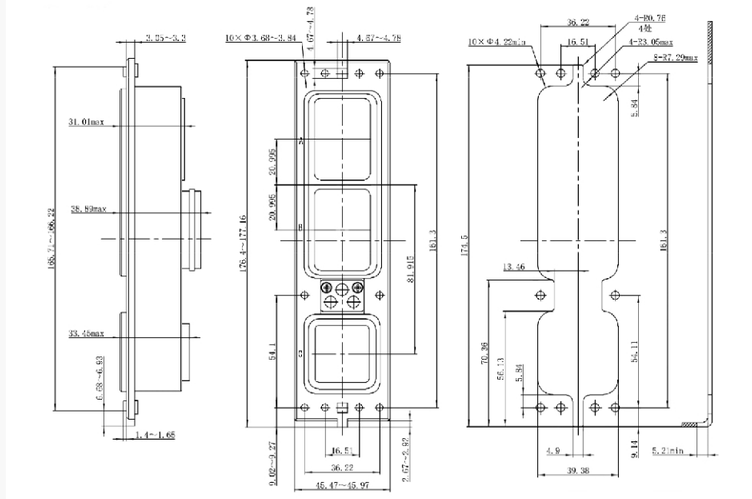
1# Receptacle shell　　1# Receptacle panel opening size

2# Plug shell



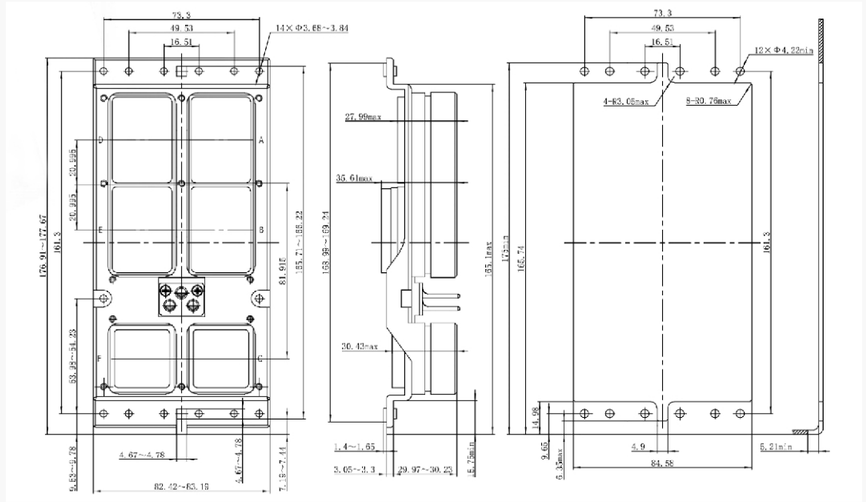
2# Plug shell　　2# Plug panel opening size

2# Receptacle shell



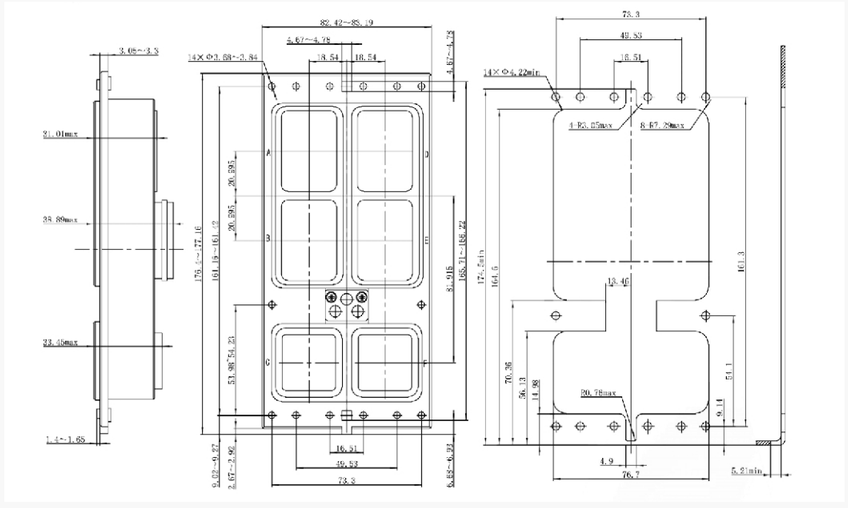
2# Receptacle shell　　2# Receptacle panel opening size

3# Plug shell



3# Plug shell　　3# Plug panel opening size

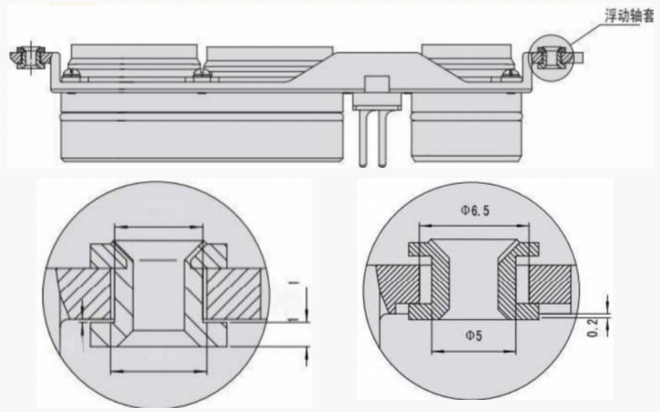
3# Receptacle shell



3# Receptacle shell　　3# Receptacle panel opening size

Float mounting illustration

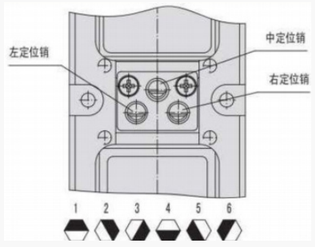
The S6 series floating products are divided into two types, one is a floating product with a floating amount of ±0.25mm, and the other is a large floating product with a floating amount of ±0.75mm. Both are floated by installing a floating bushing on the plug, which ensures smooth insertion of the installed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



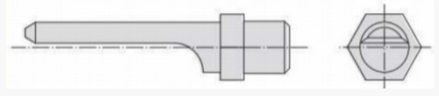
±0.25mm　　±0.75mm

【Anti mismating mechanism】

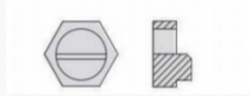
Connector position leading mechanism



Black area represents key position



Leading pin



Leading sleeve

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

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