

PC series circular connector

Sichuan Huafeng Technology Co., Ltd.
四川华丰科技股份有限公司



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Huafeng, founded in 1958, is a global provider of optoelectronic connectors and interconnection solutions. In 1958, the company introduced connector production technology of Russia standard to open the way of connector made in China. Electromechanical Components, a research journal of connector technology founded in 1981, began to be published nationwide. In 1984, we imported MIL standard connector production line and technology from USA. Since 1987, the company has participated in the formulation of Chinese national standards for connectors. In 2016, the company developed the first IEC standard for power connectors in China. From technology introduction to independent innovation, and then to providing interconnection technology services for the whole world, Huafeng is moving forward, steady and far.

We have built a forward R & D platform for connectors, focusing on the development of high-speed connectors and optical modules for backplane bus, PCB mezzanine bus and I/O bus. We have continuously researched and developed for more than 20 years, providing high-speed interconnection solutions with transmission rates of 1.25Gbps to 224Gbps, meeting the rapid development and application needs of communication equipment.

Huafeng has developed the "system interconnection" products for the overall interconnection solution of equipment, which can identify, process and integrate the high-speed, radio frequency, power, optical and other signals of the equipment information system, realize the fast connection between the equipment systems and the equipment in the system in the form of no cable, modularization, wireless, bus and intelligence, and solve the electromagnetic protection, miniaturization and rapid maintenance of the equipment maintenance and other issues.

The developed connectors, from low frequency to high frequency, from electric port to optical port, from standard type to special customization, can adapt to various special environments such as deep sea environment, high voltage environment, high vibration and impact environment, electromagnetic interference environment, high and low temperature environment, space and aerospace environment, and provide users with interconnection solutions one-stop service.

Adhering to the "reliable" culture of "Reliable Connection Comes from Huafeng", the company has built an intelligent factory with the whole process of connector manufacturing and a perfect quality assurance system. It realizes automatic production, automatic detection and sorting from the whole process of connector contact manufacturing, insulator molding, shell processing, surface treatment, assembly and packaging, with controllable and traceable quality.

Striving for high reliability, safety and environmental protection of connectors, Huafeng is committed to providing more professional, reliable and intelligent interconnection technologies and products to global defense equipment, communication equipment, rail transit equipment and new energy vehicles.





The PC series ultra small circular electrical connector is used for circuit electrical connections on radio and electrical equipment. The cable plug is connected to the socket fixed on the device through a threaded connection nut. The connection between the two devices can also be achieved by directly inserting the plug socket installed on each device,



There are two types of ultra small circular electrical connectors: sealed and unsealed; The plug and socket can be equipped with tail accessories, socket pins, and plug holes respectively.

Technical performance

- o working temperature :-60°C~+85°C
- © vibration:5~2500H_z,PC15g,PCΓ18g
- ⊚ Impact:PC 50g PCΓ 100g
- working voltage :200V
- © contact resistance:≤5mΩ
- insulation resistance :≥ 1000MΩ
- Voltage withstand:1000V
- Mechanical lifespan:250 cycle
- o technical standard: 3E0 204 062JT

Current load:

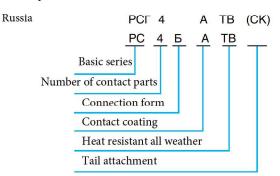
Contact diameter(mm) Number of contacts	Overall current load(A)
1/4	15
1/7	22
1/10	30
1/19	40
1/32	62
1/50	75

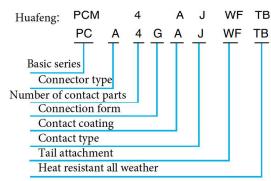
How to order

N	0.	Meaning of code	D	11 6
HF	Russia	ivicanning of code	Russia	Huafeng
1	1	Unsealed Basic series: seal	PC PCF	PC PCM
2		Connector type		Socket:A plug:Unmarked
3	2	Number of contact parts	4,7,10,19,32,50	4、7、10、19、32、50
4	3	Direct insertion type	Б	G
4	3	Threaded connection	Threaded connection Unmarked	
-	4	Gold plating	А	А
5	4	Silver plating	Unmarked	Unmarked
6		Contact type		Pin:J、Socket:K
7		Tail attached	(CK)	WF
7	6	Without tail attachment	Unmarked	Unmarked
8	5	Heat resistant all weather	ТВ	TB



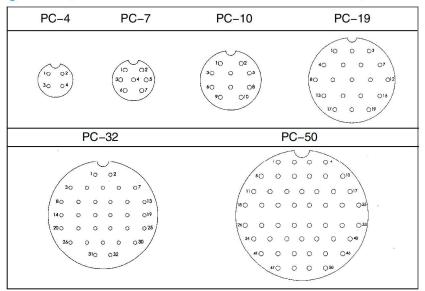
for example:





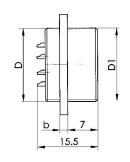
*Explanation: When ordering Russian made original products, it is necessary to declare the connection type (plug, socket), contact type (needle, hole), and whether there is a tail attachment

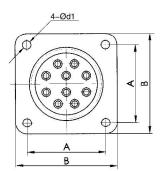
Insulation arrangement (viewed from the front end of the socket)



Appearance and installation dimensions(mm)

Socket without tail

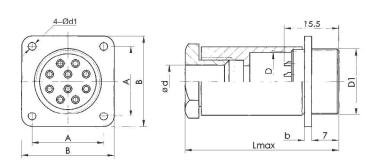




Arrange codes	D	D 1	d1	Α	В	b
PC-4	M10×0.75	M10×0.75	2.2	11.8±0.1	16.5	1.4
PC-7	M12×0.75	M12×0.75	2.2	13.2±0.1	18	1.4
PC-10	M14×0.75	M14×0.75	2.2	15±0.1	20	1.4
PC-19	M18×0.75	M18×1	2.2	18±0.1	24	1.4
PC-32	M22×0.75	M22×1	2.7	21.5±0.1	28	1.8
PC-50	M27×0.75	M27×1	3.2	26±0.1	33	2.0

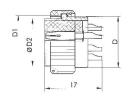


Socket with tail



Arrange codes	D	D1	d	b	А	В	d1	Lmax
PC-4	M10×0.75	M10×0.75	6	1.4	11.8±0.1	16.5	2.2	35.6
PC-7	M12×0.75	M12×0.75	8	1.4	13.2±0.1	18	2.2	36
PC-10	M14×0.75	M14×0.75	9	1.4	15±0.1	20	2.2	41
PC-19	M18×0.75	M18×1	11	1.4	18±0.1	24	2.2	41
PC-32	M22×0.75	M22×1	13	1.8	21.5±0.1	28	2.7	43.3
PC-50	M27×0.75	M27×1	16	2.0	26±0.1	33	3.2	50

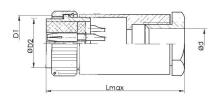
O Cable plug without tail attachment





D	D1	D2	D3
M10×0.75	M10×0.75	8.2	13.8
M12×0.75	M12×0.75	10	16
M14×0.75	M14×0.75	12	17.7
M18×0.75	M18×1	15.5	22.3
M22×0.75	M22×1	19.5	26.3
M27×0.75	M27×1	24	31.1

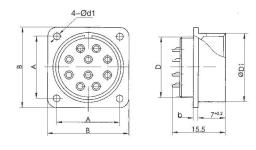
Cable plug with tail attachment





D	D1	D2	D3	d	Lmax
M10×0.75	M10×0.75	8.2	13.8	6	36.5
M12×0.75	M12×0.75	10	16	8	38.3
M14×0.75	M14×0.75	12	17.7	9.2	41
M18×0.75	M18×1	15.5	22.3	11.2	41.5
M22×0.75	M22×1	19.5	26.3	13.2	42
M27×0.75	M27×1	24	31.1	16.2	50

O Direct plug socket without tail attachment

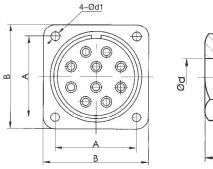


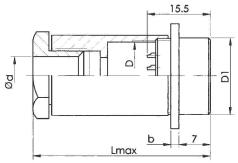
D	D 1	d 1	Α	В	b
M10×0.75	11.5	2.2	11.8±0.1	16.5	1.4
M12×0.75	14	2.2	13.2±0.1	18	1.4
M14×0.75	16	2.2	15±0.1	20	1.4
M18×0.75	20.5	2.2	18±0.1	24	1.4
M22×0.75	24.5	2.7	21.5±0.1	28	1.8
M27×0.75	30	3.2	26±0.1	33	2.0



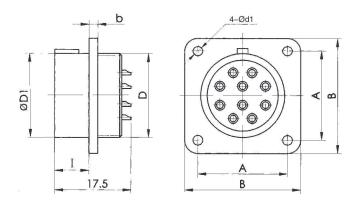
O Direct socket with tail attachment

孔组排列	D	D1	d	b	А	В	d1	Lmax
PC-4	M10×0.75	M10×0.75	6	1.4	11.8±0.1	16.5	2.2	36
PC-7	M12×0.75	M12×0.75	8	1.4	13.2±0.1	18	2.2	38
PC-10	M14×0.75	M14×0.75	9	1.4	15±0.1	20	2.2	41
PC-19	M18×0.75	M18×1	11	1.4	18±0.1	24	2.2	43
PC-32	M22×0.75	M22×1	13	1.8	21.5±0.1	28	2.7	45
PC-50	M27×0.75	M27×1	16	2.0	26±0.1	33	3.2	50





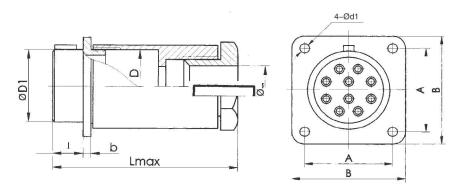
O Direct plug without tail attachment



D	D1	d1	А	В	b	I
M10×0.75	8.8	2.2	11.8±0.1	16.5	1.4	5.6
M12×0.75	10.7	2.2	13.2±0.1	18	1.4	5.6
M14×0.75	12.6	2.2	15±0.1	20	1.4	5.6
M18×0.75	16.2	2.2	18±0.1	24	1.4	5.6
M22×0.75	20.3	2.7	21.5±0.1	28	1.8	5.2
M27×0.75	24.8	3.2	26±0.1	33	2.0	5.7



O Direct plug with tail attachment



D	D 1	d	d 1	А	В	b	Lmax	I
M10×0.75	8.8	6	2.2	11.8±0.1	16.5	1.4	36	7
M12×0.75	10.7	8	2.2	13.2±0.1	18	1.4	38	7
M14×0.75	12.6	9	2.2	15±0.1	20	1.4	40	7
M18×0.75	16.2	11	2.2	18±0.1	24	1.4	42	7
M22×0.75	20.3	13	2.7	21.5±0.1	28	1.8	44	7
M27×0.75	24.8	16	3.2	26±0.1	33	2.0	48	7

Example of localized models for PC series threaded products

PN	Connector type	Tail attached	Contact type	Contact coating	No.of contact parts
PC4AKWFTB	plug	yes	socket	gold	4
PC4KWFTB	plug	yes	socket	silver	4
PC4AKTB	plug	no	socket	gold	4
PC4KTB	plug	no	socket	silver	4
PCA4AJWFTB	socket	yes	pin	gold	4
PCA4JWFTB	socket	yes	pin	silver	4
PCA4AJTB	socket	no	pin	gold	4
PCA4JTB	socket	no	pin	silver	4

Example of Domestic Models for PC Series Direct Plug in Products

PN	Connector type	Tail attached	Contact type	Contact coating	No.of contact parts
PC4GAKWFTB	plug	yes	socket	gold	4
PC4GKWFTB	plug	yes	socket	silver	4
PC4GAKTB	plug	no	socket	gold	4
PC4GKTB	plug	no	socket	silver	4
PCA4GAJWFTB	socket	yes	pin	gold	4
PCA4GJWFTB	socket	yes	pin	silver	4
PCA4GAJTB	socket	no	pin	gold	4
PCA4GJTB	socket	no	pin	silver	4

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