



***ZH127 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 .

ZH127 series electrical connector has characteristics such as environmental resistance, five key positioning to prevent insertion errors, and quick connection with a snap fit. The contact parts are crimped and then loosened before being removed; Plug with shielding components. Connectors are widely used in low-frequency electronic systems, including a large number of electrical equipment.



➤ How to order

ZH127 - 4/10 B W1 1 7- 1- AC

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Series name code: ZH127

② Number of contacts: 1\4\7\8\10\16\19\30\32\50\76\102

③ Shell size: 10\12\14\18\22\27

④ Contact type: P-socket ,B-pin

⑤ Weld Type: W1-solder cup, W2-PCB soldering

⑥ Contact coating: 1-Gold plating, 2-silver plating

⑦ Connector structure type:

5-Plug with right angled tail;

6-Plug with straight tail;

7- Receptacle with flanges, fixed without shell screws,

8-Integral straight tail,

9-Receptacle with flange nuts

⑧ Key position: 1-20

⑨ AC-all climatic

➤ Performance indicators:

Environmental temperature: $-60\text{ }^{\circ}\text{C} \sim +105\text{ }^{\circ}\text{C}$

Vibration: $1\text{Hz} \sim 200\text{Hz}$ 200m/s^2

Impact: 1500m/s^2

insulation resistance: $\geq 5000\text{M}\Omega$

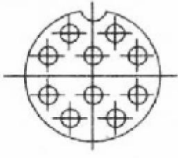
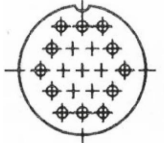
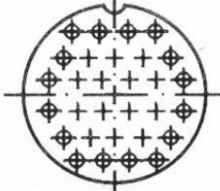
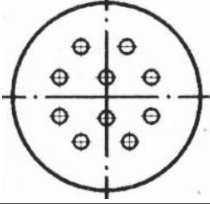
Relative humidity: 98% at $40\text{ }^{\circ}\text{C}$ (no condensed water vapor)

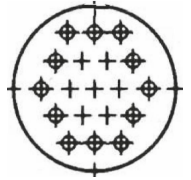
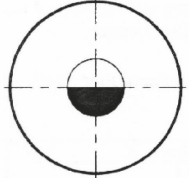
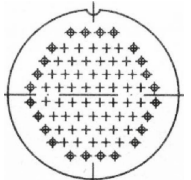
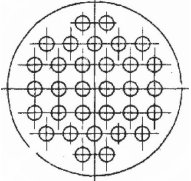
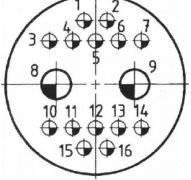
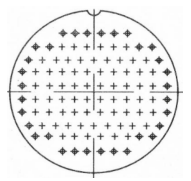
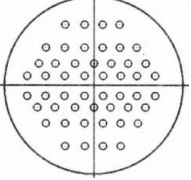
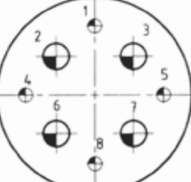
Mechanical lifespan: 500 cycles

Contact resistance:

Contact diameter	contact resistance
0.6 mm	10 m Ω
1.0 mm	5 m Ω
1.5 mm	2.5 m Ω
2.0 mm	1.6 m Ω
3.5 mm	0.75 m Ω
5.5 mm	0.3 m Ω

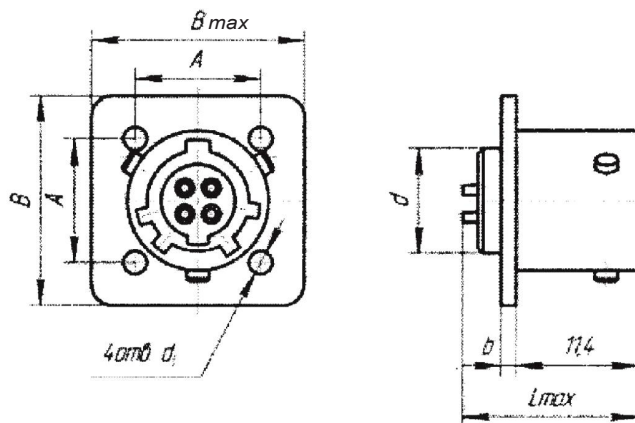
➤ Spectral arrangement

shell dimension	arrangement	Number of contacts	Contact diameter	Rated current	Maximum current 10%	rated voltage	PCB installation selection
10		10	0.6	1.8	3	150	+
		4	1	3.7	7	250	+
12		19	0.6	1.7	3	150	+
		7	1	3.1	7	250	+
		6	0.6	0.5	3	150	
		2	2	10	15		
14		30	0.6	1.4	3	250	+
		10	1	3	7	250	+

18		50	0.6	1.0	3	150	+
		19	1	2.1	7	250	+
		1	5.5	65	65	700	
22		76	0.6	0.8	3	150	+
		32	1	1.8	7	250	+
		14	1	2.1	3	250	
		2	3.5	18	35		
27		102	0.6	0.7	3	150	+
		50	1	1.5	7	250	+
		4	1.5	4.0	8	400	
		4	3.5	25.0	35		

➤ Product dimensions (mm) :

①: Receptacle with flanges (Connector structure type 7, tail welding type 1) :

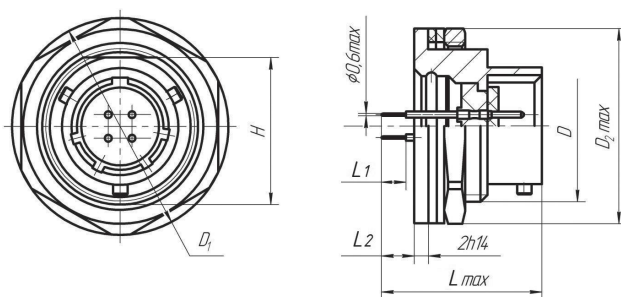
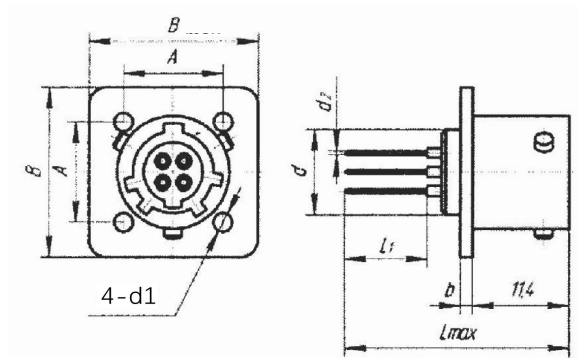


Shell size	d	d1	A	B	b	Lmax
10	10	2.2	11.8	20	1.4	26
12	12	2.2	13.2	21	1.4	26
14	14	2.2	15	24	1.4	26
18	18	2.2	18	27	1.4	26
22	22	2.7	21	31	1.8	26
27	27	3.2	26	36	2.0	26

②: Receptacle (tail welding type 2) :

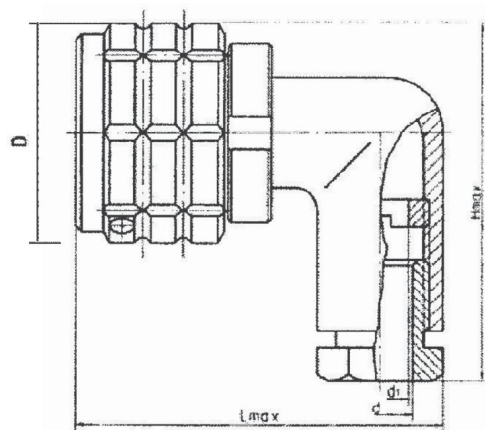
Connector structure type 7

Connector structure type 9



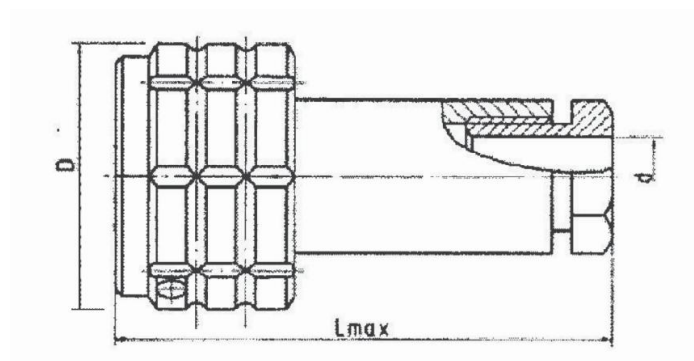
Shell size	D	D1	D2max	d	d1	A	B	b	H	Contact size 0.6/1.0		
										L	L1	L2
10	M18×0.75	24	25.4	10	2.2	11.8	20	1.4	17	23.9/23.4	7.5/3.5	6.5/5
12	M20×0.75	25	27.8	12		13.2	21		19			
14	M22×0.75	28	31.2	14		15	24		21			
18	M24×0.75	31	31.2	18		18	27		23			
22	M30×0.75	35	37	22	2.7	21.5	31	1.8	29			
27	M33×0.75	40	41.6	27	3.2	26	36	2.0	32			

③: Plug with right angled tail (structure type 5) :



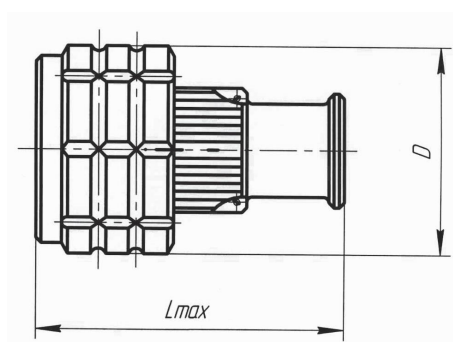
Shell size	D	d	d1	H max	Lmax
10	20	6	5.5	32	23
12	21	8	7.5	34	25
14	24	9	8.5	36	27
18	27	11	10	40	30
22	31	13	12	44	33
27	36	16	15	50	36

④: Plug with straight tail (structure type 6) :



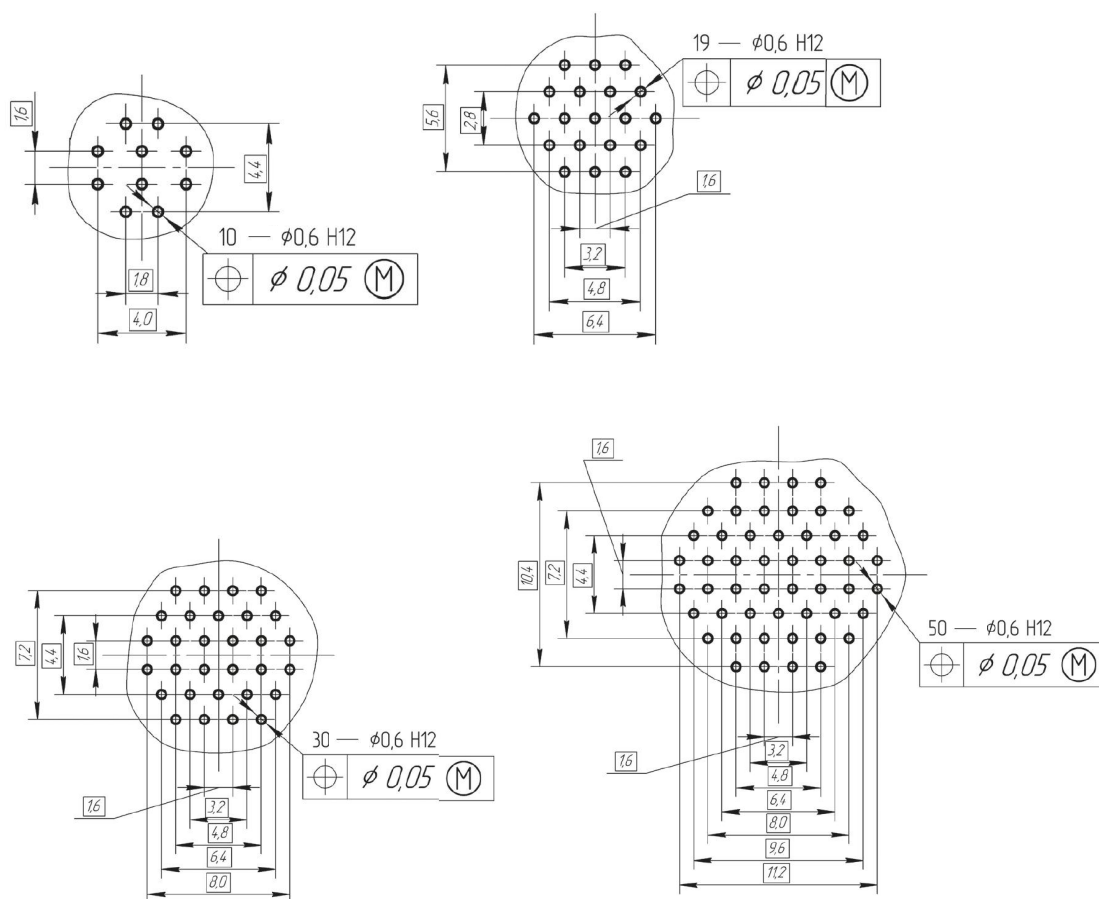
Shell size	D	d	Lmax
10	20	6	26.5
12	21	8	28.5
14	24	9	31.5
18	27	11	34.5
22	31	13	35.5
27	36	16	39.5

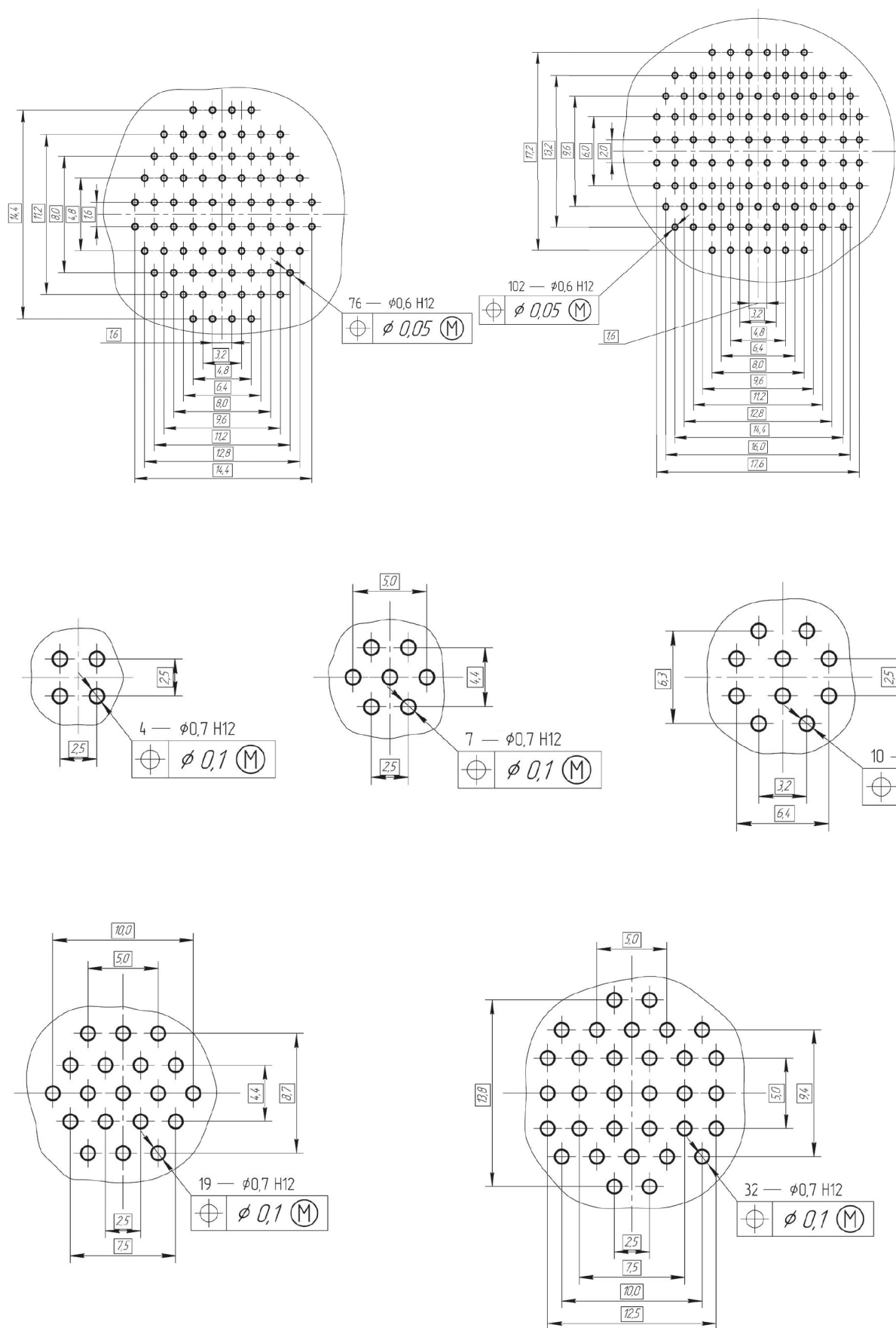
⑤: Plug integral straight tail (Connector structure type 8, tail welding type 1) :

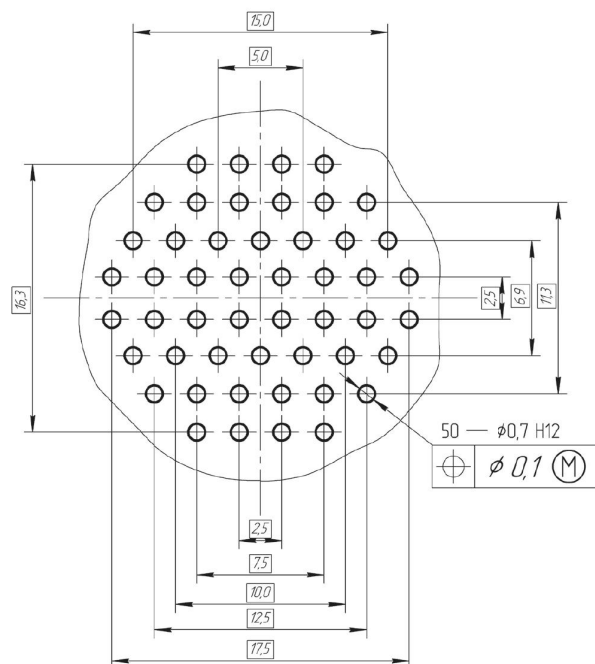


Shell size	D	Lmax
10	20	33
12	21	33
14	24	33
18	27	41
22	31	42
27	36	45

➤ Suggested hole size of pcb:









Sichuan Huafeng Technology Co., Ltd.

Add: No. 118, Sanjiang Avenue, Mianyang Economic & Technological
Development Zone, Fucheng District Mianyang City, Sichuan, China

Fax: +86-816-2335606

<http://www.huafeng796.com>