



ZH28 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.



ZH28 is a glass sintered sealed socket, which can be used in conjunction with the corresponding plug of ZH23.



Technical performance

- ⊙ working temperature : $-60^{\circ}\text{C} \sim +155^{\circ}\text{C}$ (Max 200°C)
- ⊙ vibration: $1-5000\text{Hz}$ acceleration $\leq 40\text{g}$
- ⊙ Impact: 500g once
- ⊙ contact resistance:

	$\varnothing 1.0$	$\varnothing 1.5$	$\varnothing 2.0$
	$\leq 15\text{m}\Omega$	$\leq 10\text{m}\Omega$	$\leq 8\text{m}\Omega$
- ⊙ Voltage withstand:

grade	working voltage	test voltage
A	700V	2100V
B	500V	1850V
C	400V	1600V
- ⊙ insulation resistance : $\geq 5000\text{M}\Omega$
- ⊙ working voltage : 700V
- ⊙ technical standard: BPO.364.038TY
- ⊙ Salt spray resistance: 48h
- ⊙ relative humidity: $30^{\circ}\text{C} \sim 60^{\circ}\text{C}$ 92%~98%
- ⊙ Mechanical lifespan: 500 second

- ⊙ Contact current

Number of contacts Shell number	Contact diameter(mm)	Single core contact current (A)	
		Working current	Maximum current
4/14	1	3	6
3/14	1.5	6	12
10/18	1	3	6
7/18	1.5	6	12
19/22	1	3	6
10/22	1.5	6	12
7/22	1.5	6	12
7/22	2.0	9	18
19/24	1.0	3	6
	1.5	6	12
19/27	1.5	6	12
28/27	1.0	3	6
28/27	1.5	6	12
32/27	1.0	3	6
41/30	1.0	3	6
24/30	1.5	6	12
55/33	1.0	3	6
32/33	1.0	3	6
32/33	2.0	9	18
61/36	1.0	3	6
43/36	1.0	3	6
43/36	1.5	6	12
45/39	1.0	3	6
	1.5	6	12
	2.0	9	18

How to order:

for example

Russia:

	CHL 28-	4	/14	B-	1-	σ-	AC
Basic series							
Number of contact parts							
Shell number							
Installing pins							
Without attachments							
Key position							
all-weather							

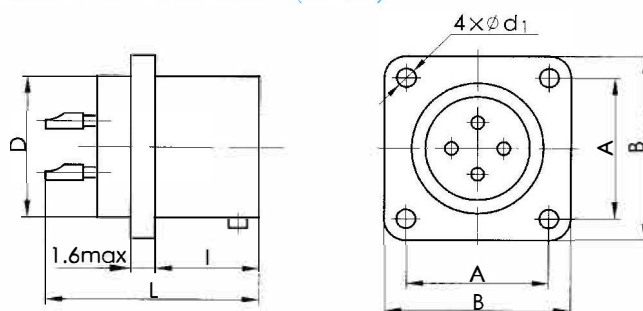
China:

	ZH 28-	4	/14	B-	1-	b-	AC
Basic series							
Number of contact parts							
Installing pins							
Installing pins							
Without attachments							
Key position							
all-weather							

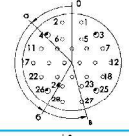
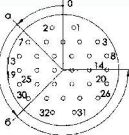
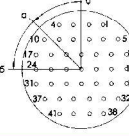
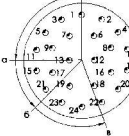
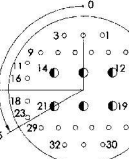
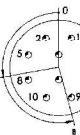
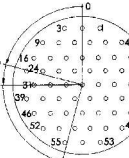
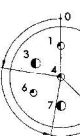
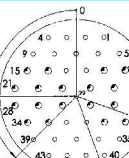
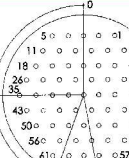
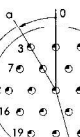
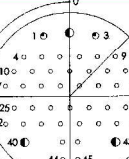
Contact diameter symbol marking

○	◐	◑
Φ1.0mm	Φ1.5mm	Φ2.0mm

Appearance and installation dimensions (mm)



Product model	Size mm												
	A	B	d1	L	I	D							
CHL28-4/14B-1-AC	16.5	21.7	2.2	23.6	11.3	14							
CHL28-3/14B-1-AC													
CHL28-10/18B(P)-1-AC	19.5	25.9	3.2				18						
CHL28-7 /18B(P)-1-AC													
CHL28-19/22B(P)-1-AC	23	29.4							22				
CHL28-10/22B(P)-1-AC													
CHL28-7 /22B(P)-1-AC	25	31.4									24		
CHL28-19/24B(P)-1-AC													
CHL28-32/27B-1-AC	27	33.4											27
CHL28-19/27B-1-AC													
CHL28-28/27B-1-AC	31	37.8											30
CHL28-41 /30B-1-AC													
CHL28-24/30B-1-AC	34	41.5											33
CHL28-55/33B-1-AC													
CHL28-32/33B-1-AC	36.5	44.5											36
CHL28-61 /36B-1-AC													
CHL28-43/36B-1-AC	40	46.4											39
CHL28-45/39B-1-AC													

Number of contacts Shell number	Key position angle				Contact arrangement	Number of contacts Shell number	Key position angle				Contact arrangement
	a	σ	B	Γ			a	σ	B	Γ	
4/14	-	135°	-	-		28/27	45°	150°	195°	-	
3/14	160°	-	-	-		32/27	45°	135°	-	270°	
10/18	-	70°	-	-		41/30	45°	90°	-	-	
7/18	90°	-	-	-		24/30	90°	135°	200°	-	
19/22	30°	-	225°	-		32/33	90°	120°	-	-	
10/22	-	100°	195°	-		55/33	75°	90°	-	165°	
7/22	80°	170°	225°	-		43/36	90°	135°	200°	250°	
19/24	30°	120°	245°	-		61/36	90°	160°	190°	-	
19/27	30°	195°	-	-		45/39	90°	180°	270°	31	

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