BIX

HIGH QUALITY CONNECTION

BIX NORTH AMERICA

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About BIX

BIX is founded on the principles of sound design, production and sales of electrical signal connectors. Our company's products are used in fields such as military communications, medical electronics, and precision instruments for testing and measuremen, Industrial and E-mobile.

BIX has received the ISO9001, ISO13485   and has got the EIA Approval. 5S management system is adopted on the field and "Quality First" is the primary purpose of us.

BIX owns more than ten standard and self-developed circular push-pull self-latching connector series. BIX offers specially designed and customized connectors and cable assembly processing services on request.

BIX brings all the relevant industrial skills and key technologies together in one company: research and development, machine tool and special machine construction, injection and assembly, along with corresponding laboratory testing methods. BIX uses imported precision CNC lathes, injection machines and other major production equipment to meet the requirements of producing high-quality and high-precision connectors.

Bix was founded in 2014 and employs more than 200 people.

Our corporate goal: Design and Deliver High-quality Electrical Signal Connectors.

Series	HDC-U Series	HDC-G Series	HDC-H Series
Product Image			
Series Description	High-density Push-pull and Self-latching Circular Connector Pin and Groove Coding	High-density Push-pull and Self-latching Circular Connector Pin and Groove Coding	Self-cleaning Push-pull and Self-latching Circular Connector Pin and Groove Coding

		HDC-U Series	HDC-G Series	HDC-H Series
Product Parameter	Plug Type	Straight Plug	Straight Plug	Straight Plug
	Latching Mode	Push-pull and Self-latching	Break-Away	Push-pull and Self-latching
	Maximum Cable Diameter	See product manual for details.	See product manual for details.	See product manual for details.
	Socket Type	Panel Mount Socket Floating Socket	Panel Mount Socket Floating Socket	Panel Mount Socket
	Panel Cut-outs	See product specifications for details.	See product specifications for details.	See product specifications for details.
	No. 00	2, 3, 4, 5 contacts	4, 7 contacts	/
	No. 0	2, 3, 4, 5, 7, 9, 10, 13 contacts	9, 12, 16 contacts	/
	No. 1	14, 16, 19 contacts	27 contacts	14, 16 contacts
	Key	A, B, C, D, E, F	A, B, C, D	A, B, C, D
	Housing Material	Copper Alloy	Copper Alloy	Copper Alloy
	Insulator Material	PEEK	PEEK	PEEK
	Outer Shell Coating	Bright Chrome or Black Chrome	Grey Chrome	Black Chrome
	Pinhole Plating	Gold	Gold	Gold
	Cable Mounting	Solder, PCB Mounting	Solder, PCB Mounting	Solder, PCB Mounting
	Contact Resistance	See details	See details	See details
	Number of Mating Cycles	>5000	>5000	>2000
	Salt Spray Test	96 hours	96 hours	96 hours

	Watertightness	IP68	IP68	IP68
	Temperature Range	-55 ℃ ~ 125 ℃	-55 ℃ ~ 125 ℃	-55 ℃ ~ 125 ℃
	Shock Resistance	10-2000HZ, 15g	10-2000HZ, 15g	10-2000HZ, 15g
	Resistance to Vibrations	300g, 3ms	300g, 3ms	300g, 3ms

☆ Note: All products with aluminum alloy and stainless steel outer shells are available on request.

Series	HDC-A Series	HDC-X Series	HDC-Y Series
Product Image			
Series Description	High-density Circular Connector Pin and Groove Coding	High-density Push-pull and Self-latching Circular Connector Pin and Groove Coding	High-density Circular Connector Pin and Groove Coding
Product Parameter	Plug Type	Straight Plug Panel Mount Plug	Straight Plug	Straight Plug
	Latching Mode	Break-Away	Push-pull and Self-latching	Break-Away
	Maximum Cable Diameter	See product manual for details.	See product manual for details.	See product manual for details.
	Socket Type	Panel Mount Socket Floating Socket	Panel Mount Socket Floating Socket	Panel Mount Socket Floating Socket
	Panel Cut-outs	See product specifications for details.	See product specifications for details.	See product specifications for details.
	No. 00	3, 4 contacts	/	/
	No. 0	2, 3, 4, 5, 7, 9, 10 contacts	2, 5, 6, 9 contacts	7 contacts
	No. 1	4, 5, 8, 16 contacts	4, 5, 8, 16 contacts	10, 16 contacts
	No. 1.5	10, 12, 19 contacts	10, 12, 19 contacts	/
	No. 2	4, 8, 19 contacts	4, 8, 19 contacts	/
	No. 3	8, 30 contacts	8, 30 contacts	/
	Contact Alignment	A, B, C, D	A, B, C, D	A, B, C, D
	Housing Material	Copper Alloy / Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
	Insulator Material	PEEK	PEEK	PEEK
	Outer Shell Coating	Grey Chrome	Grey Chrome	Grey Chrome
	Pinhole Plating	Gold	Gold	Gold
	Cable Mounting	Solder, PCB Mounting	Solder, PCB Mounting	Solder, PCB Mounting
	Contact resistance	See details	See details	See details
	Number of	>5000	>5000	>5000

Mating Cycles			
Salt Spray Test	96 hours	96 hours	96 hours
Watertightness	IP68	IP68	IP68
Temperature Range	-55 ℃ ~ 125 ℃	-55 ℃ ~ 125 ℃	-55 ℃ ~ 125 ℃
Shock Resistance	10-2000HZ, 15g	10-2000HZ, 15g	10-2000HZ, 15g
Resistance to Vibrations	100g, 6ms	100g, 6ms	100g, 6ms

Series	HDC-F Series	CPC-C Series	CPC-I Series
Product Image			
Series Description	High-density Push-pull and Self-latching Circular Connector Half-shell Coding	Push-pull and Self-latching Circular Connector Pin and Groove Coding	Push-pull and Self-latching Circular Connector Pin and Groove Coding
Product Parameter — Plug Type	Straight Plug Panel Mount Plug	Straight Plug Elbow Plug	Straight Plug Elbow Plug
Latching Mode	Push-pull and Self-latching	Push-pull and Self-latching	Push-pull and Self-latching
Maximum Cable Diameter	See product manual for details.	See product manual for details.	See product manual for details.
Socket Type	Panel Mount Socket Floating Socket	Panel Mount Socket	Panel Mount Socket
Panel Cut-outs	See product specifications for details.	See product specifications for details.	See product specifications for details.
No. 00	/	2, 3, 4 contacts	/
No. 0	2, 3, 4, 5, 7, 9 contacts	2, 3, 4, 5, 7, 9, 10 contacts	2, 3, 4, 5, 7, 9 contacts
No. 1	2, 3, 4, 5, 6, 7, 12 contacts	2, 3, 4, 5, 6, 7, 8, 10, 14, 16 contacts	4, 5, 8, 16 contacts
No. 1.5	10, 12, 19 contacts	/	/
No. 2	5, 6, 11, 16, 19 contacts	2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 19, 26 contacts	4, 8, 19 contacts
No. 3	12, 15, 24, 27 contacts	/	8, 30 contacts
Contact Alignment	1, 2, 3	0, A, B, C, E, F, G, I, J, K, M, Q, V, W, Y, S	0, A, C, F, H, K, Q, W
Housing Material	Copper Alloy	Copper Alloy	Copper Alloy
Insulator Material	PEEK	PEEK	PEEK
Special Contact	/	/	1 # 8 contact
Outer Shell Coating	Bright Chrome or Black Chrome	Bright Chrome or Black Chrome	Bright Chrome or Black Chrome
Pinhole Plating	Gold	Gold	Gold

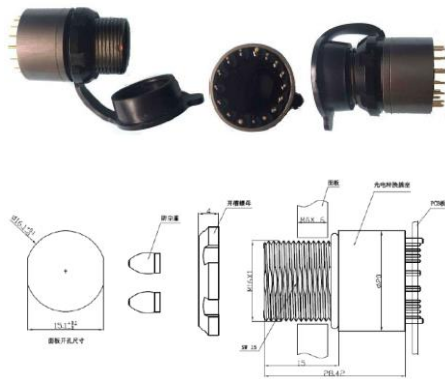|			
Cable Mounting	Solder, PCB Mounting	Solder, PCB Mounting	Solder, PCB Mounting
Contact resistance	See details	See details	See details
Number of Mating Cycles	>5000	>5000	>5000
Salt Spray Test	96 hours	96 hours	96 hours
Watertightness	IP68	IP50	IP68
Temperature Range	-55 ℃ ~ 125 ℃	-55 ℃ ~ 125 ℃	-55 ℃ ~ 125 ℃
Shock Resistance	10-2000HZ, 15g	10-2000HZ, 15g	10-2000HZ, 15g
Resistance to Vibrations	100g, 6ms	100g, 6ms	100g, 6ms

Series	CPC-L Series	CPC-B Series	CPC-S Series
Product Image			
Series Description	Push-pull and Self-latching Circular Connector Pin and Groove Coding	Push-pull and Self-latching Circular Connector Pin and Groove Coding	Push-pull and Self-latching Circular Connector Pin and Groove Coding

		CPC-L Series	CPC-B Series	CPC-S Series
Product Parameter	Plug Type	Straight Plug	Straight Plug	Straight Plug Elbow Plug
	Latching Mode	Push-pull and Self-latching	Push-pull and Self-latching	Push-pull and Self-latching
	Maximum Cable Diameter	See product manual for details.	See product manual for details.	See product manual for details.
	Socket Type	Panel Mount Socket	Panel Mount Socket Floating Socket	Panel Mount Socket
	Panel Cut-outs	See product specifications for details.	See product specifications for details.	See product specifications for details.
	No. 00	/	/	Coaxial Contact
	No. 0	2, 3, 4, 5, 7, 9 contacts	2, 3, 4, 5, 7, 9 contacts	Coaxial, 2, 3, 4 contacts
	No. 1	4, 5, 8, 16 contacts	4, 5, 8, 16 contacts	Coaxial, 2, 3, 4, 5, 6 contacts
	No. 2	4, 8, 19 contacts	4, 8, 19 contacts	2, 4, 5, 6, 8, 10 contacts
	No. 3	8, 30 contacts	8, 30 contacts	/
	Contact Alignment	0, A, B, C, E, F, H, J, K, M, Q, Y	0, A, B, C, F, H, J, K, M, Q, Y	0, A
	Housing Material	Copper Alloy	Copper Alloy	Copper Alloy
	Insulator Material	PEEK	PEEK	PEEK
	Outer Shell Coating	Bright Chrome	Bright Chrome	Bright Chrome
	Pinhole Plating	Gold	Gold	Gold
	Cable Mounting	Solder, PCB Mounting	Solder, PCB Mounting	Solder, PCB Mounting
	Contact resistance	See details	See details	See details
	Number of Mating	>5000	>5000	>5000

Cycles			
Salt Spray Test	96 hours	96 hours	96 hours
Watertightness	IP68	IP50	IP50
Temperature Range	-55 ℃ ~ 125 ℃	-55 ℃ ~ 125 ℃	-55 ℃ ~ 125 ℃
Shock Resistance	10-2000HZ, 15g	10-2000HZ, 15g	10-2000HZ, 15g
Resistance to Vibrations	100g, 6ms	100g, 6ms	100g, 6ms

☆ Note: All products with aluminum alloy and stainless steel outer shells are available on request.

National Military Standard Series	Unified Type Power Connector	
GB599 I Series Bayonet quick connect. Small volume, lightweight, high pinhole distribution density. Sockets are available for box, wall hanger, pre-mounting, post-mounting, and nut-fastened installations. 9 shell sizes and 70 hole site arrangements. Prevent miss-mating with 5 keys. IP68.		Contact pin: ø 0.7mm. Rated working current: 6.0A. Insulation resistance: ≥3000MΩ (under normal conditions). Dielectric withstand voltage (sea level): 500V / AC； Watertight protection class: IP68； Mechanical endurance: ≥5000 times.
GB599 II Series Bayonet quick connect. Smallest volume, lightest weight, shortest case. EMI / RFI shielding. Sockets are available for box, wall hanger, pre-mounting, post-mounting, and nut-fastened installations. IP68.		Contact pin: φ1.3mm. Rated working current: 10A. Insulation resistance:≥5000MΩ (under normal conditions). Dielectric withstand voltage (sea level): 1500V / AC. Watertight protection class: IP68. Mechanical endurance: ≥5000 times.
GB599 III Series Quick connection with triple start ratchet and anti-loosening structure. Small volume, lightweight, high pinhole distribution density. Fireproof shell, composite shell, aluminum alloy shell and multi-plating.		Contact pin: φ1.3mm + φ3mm, Rated working current φ1.3 (10A), φ3 (30A). Insulation resistance: ≥5000MΩ (normal state). Working temperature: -55 ℃ ~ +125 ℃. Watertight protection class: IP68. Salt Spray Test: 96h. Mechanical endurance: ≥5000 times.

Y50 Series

This product complies with the GJB101A-97 standard and refers to the MIL-C-26482 standard. The plugs and sockets of the same model can be matched with each other.

The bayonet connection of this product has the advantages of quick connection, reliable contact, small size, high density, and good environmental resistance.

Basic High-speed Photoelectric Conversion Connector

All-metal fully sealed housing.

Vibration resistance design.

Provide resistance to rain, hygrothermal conditions, salt spray, mold, vibrations and shocks on the environmental adaptability requirements.

Built-in LC duplex bidirectional fiber.

Level signal: CML.

Transmission rate: 100Mbps ~ 1.25Gbps.

Transmission distance:30km.

Power supply: 3.3V ± 5%.

Bus Management Module

The Bus Management Module is an abbreviation of Intelligent Platform Management Bus Module, aka IPMB Module. Built-in IPMI 2.0 protocol, it is used for intelligent platform management of the device. Through the IPMB bus of the I2C interface, it provides functions such as real-time accurate detection of power voltage and current, intelligent power control, temperature sensing and real-time detection, fan control, reset control, etc. It also allows the users to customize the functions of the software.

BIX Vision: Design and Deliver High-quality Electrical Signal Connectors.

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