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QUANMA CONNECTOR

全马连接器系统

PUSH AND PULL SELF LOCKING CONNECTOR

高品质 高性价比 连接器解决方案

QUANMA CONNECTOR

产品宣传册

更小 更快 更可靠



B

B series



Main features

- Fast push-pull self-locking system
- Weld and PCB board weld pin
- Straight and 90° Angle
- Multiple positioning pins can avoid intermixing between similar connectors
- Provide full range of EMC protection
- Multi-core 2-40 core, high density installation to save space

Technical feature

- Insert time ≥5000次
- Humidity: At 60 °C Max humidity can reach 96%
- Temperature range: -55°C ~ +200°C
- Vibration: 15g[10-2000Hz]
- Mechanical impact :100g[6ms]
- Salt spray corrosion test: over 96h

- Waterproof level:IP50-IP68

Size	Max cable size	Max pin no	hole size	Termination methods(weld)	Termination methods (PCB board)
				端接方式 (焊接)	端接方式 (PCB接)
00B	3.2mm	7	M7x0.5	√	√
0B	5.2mm	10	M9x0.5	√	√
1B	7.2mm	16	M12x1.0	√	√
2B	10mm	32	M15x1.0	√	√
3B	11.7mm	30	M18x1.0	√	√
4B	16.3mm	40	M25x1.0	√	√

C

C series



Main features

- Fast push-pull self-locking system
- Safety divider push-pull self-locking system
- Multi-pin type 30 pins, high density installation save space
- Weld and PCB board weld pin
- Provide full range of EMC protection
- Multiple positioning pins can avoid intermixing between similar connectors

Technical feature

- Insert times: ≥5000 times
- Vibration: 5g[10Hz-2000Hz]
- Impact: 100g[6ms]
- Work temperature: epoxy resin glue -55°C ~ +125°C silica gel -55°C ~ +200°C
- salt spray corrosion test: over 96h
- Waterproof level: IP68

Siz	Max Cable size	Max pin no	hole size	Termination methods(weld)	Termination methods (PCB board)
				端接方式 (焊接)	端接方式 (PCB接)
0C	5.2mm	10	M10x0.5	√	√
1C	7.2mm	16	M14x1.0	√	√
2C	9.7mm	26	M16x1.0	√	√
3C	11.9mm	30	M20x1.0	√	√

K

K series



Main features

- Fast push-pull self-locking system
- Weld and PCB board weld pin
- Multiple positioning pins can avoid intermixing between similar connectors
- Provide full range of EMC protection
- Multi-core 2-40 core, high density installation to save space

Technical feature

- Insert time:≥5000 times
- Humidity: At 60 °C Max humidity can reach 95%
- Temperature range: -55-+200°C
- Vibration: 15g[10-2000Hz]
- Mechanical impact :100g[6ms]
- Salt spray corrosion test: over 96h
- Waterproof level:IP68

Size	Max Cable size	Max Pin no	hole size	Termination methods(weld)	Termination methods (PCB board)
				端接 (焊)	(PCB 板)
OK	5.2mm	10	M14x1.0	√	√
1K	7.2mm	16	M16x1.0	√	√
2K	9.7mm	32	M20x1.0	√	√
3K	11.2mm	30	M24x1.0	√	√
4K	23.5mm	40	M30x1.0	√	√

F

F series



Main features

- Safety divider push-pull self-locking system
- Multi-pin type 1-37 pins
- Weld and PCB board weld pin
- Provide full range of EMC protection
- High density installation to save space
- Internal semicircle positioning to prevent mis-insertion
- Provide full range of EMC protection
- Used for soldier, computer, infrared, power supply, etc

Technical feature

- Insert time:≥5000 times
- Vibration: 15g[10-2000Hz]
- Impact :100g[6ms]
- Work temperature: epoxy resin glue:-55 C -+125 C silica gel :-55°C-+200°C
- Salt spray corrosion test: over 96h
- Waterproof level:IP68

Size	Max Cable size	Max pin no	hole size	Termination methods(weld)	Termination methods (PCB board)
				端接方式 (焊接)	端接方式 (PCB接)
0F	5.2mm	10	M9x0.5	√	√
1F	7.2mm	16	M14x1.0	√	√
AF	8.2mm	19	M14x1.0	√	√
2F	9.7mm	27	M16x1.0	√	√
3F	11.5mm	37	M20x1.0	√	√

G

G Series



Main features

- Compact design
- The maximum contact density is found in a design with a high contact density minimum
- Systematic Solutions
- The shell is keyed and color coded
- Strong reliability, solid shell

Technical feature

- Insert life time: ≥5000 times
- Vibration: 15g[10Hz-2000Hz]
- Impact :100g[6ms]
- Work temperature:-40°C-+125°C
- Salt spray corrosion test: over 96h
- Waterproof level: comply IP68

Size	Max cable size	multi pin no	hole size	Termination methods (weld)	Termination methods (PCB board)
0G	6mm	16	M10x0.5	√	√

P

P series



Main features

- The appearance conforms to medical aesthetics
- Plastic case, PSU or PEI
- More than 100 disinfection cycles
- Excellent electrical safety
- Multiple color recognition
- Injection moulding

Technical feature

- Insert time:≥1000 times
- Vibration: 15g[10-200Hz]
- Impact :100g[6ms]
- Work temperature: PSU:-50 C -+150 C PEI :-50 C -+170 C
- Waterproof level:IP50

Size	Max Cable size	Max pin no	hole size	Termination methods(weld)	Termination methods (PCB board)
				端接方式 (焊接)	端接方式 (PCB接)
1P	6.5mm	14	M14x0.5	√	√
2P	9.2mm	34	M17x1.0	√	√
3P	9.5mm	30	M20x1.0	√	√



U series



Main features

- Safety divider push-pull self-locking system
- Multi-pin type 2-40pin
- High density installation to save space
- Half disc positioning and key positioning phase knot,better positioning
- Provide full range of EMC protection

Technical feature

- Work temperature:
epoxy resin glue:-55 C ~+125 C
silica gel :-55 C ~+200 C
- Relative humidity: 90%~95%(40±2℃)
- Working air pressure: 4.9Kpa~101.33Kpa
- Salt spray : 96h under 5%NaCl spray
- Vibration:10^2000Hz, 196m/s^2 instant break ≤1μs
- Impact: 490m/s^2 instant break ≤1μs
- Insulator resistance: ≥5000MΩ (Normal state)
- Mechanical impact :100g[6ms]
- Insert time:over 5000 times
- Waterproof level:IP68

Size	Max cable size	Max pin no	hole size	Termination methods(weld)	Termination methods (PCB board)
				端接方式 (焊接)	端接方式 (PCB接)
00U	5.2mm	7	M7×0.5	✓	✓
0U	5.2mm	13	M9×0.5/M10×0.5	✓	✓
1U	7.5mm	16	M12×1.0	✓	✓
2U	9.9mm	19	M16×1.0	✓	✓
3U	11.5mm	27	M18×1.0	✓	✓

ML Series (anti vibration)



Main features

- High vibration resistance
- Light weight
- Ratchet plug device
- Compact design and space saving
- 360-degree electromagnetic shielding
- Color or positioning pin differentiation
- scoop-proof

Technical feature

- Insert life time:5000 times
- Work temperature : -55 C ~+200 C
- Relative humidity: 90%~95%(40±2℃)
- Vibration:15g[10Hz-2000Hz]
- Impact :300g[3ms]
- Salt spray corrosion test: 96h under 5% Nacl liquid
- Waterproof level:IP68

尺寸	最大通过线径	最多针芯数	开孔尺寸	Termination methods (weld)	Termination methods (PCB board)
				端接方式 (焊接)	端接方式 (PCB接)
0M	5 mm	10	M13×0.75	✓	✓
1M	8 mm	26	M14×1	✓	✓
2M	11 mm	16	M17×1	✓	✓

Y Series (aluminium alloy -light weight series)



Main features

- Plug and lock self - lock and easy separation two type
- Compact, light and easy to operate
- Mechanical positioning and color positioning, double anti-misinsertion
- Signal, high/low voltage, coaxial/triaxial, optical fiber, Signals such as air paths can be mixed into a connector
- Suitable for harsh environments
- Can insert without looking, easy to operate

Technical feature

- Insert time: ≥5000 times
- Work temperature:
epoxy resin glue:-55 C ~+125 C
silica gel :-55 C ~+200 C
- Vibration:frequency 10^2000Hz, accelerated speed 147m/s ≤1um nstant break
- Impact: accelerated speed 490m/s ≤1um nstant break
- Salt spray corrosion test : 96h
- Waterproof level:IP68

Size	Max cable size	Max pin no	hole size	Termination methods(weld)	Termination methods (PCB board)
				接 接	
0Y	5mm	10	M11×0.75	✓	✓
1Y	6.5mm	16	M14×1.0	✓	✓
1.5Y	8mm	19	M14×1.0	✓	✓
2Y	10mm	26	M16×1.0	✓	✓

W Series



Main features

- For deep water, recording depth up to 300 meters
- Screw lock system
- Multi-key positioning, blind insertion
- Strong shell

Technical feature

- Insert time:5000 times
- Temperature range: -55~+200 C
- Relative humidity: 90%-95% (40±2℃)
- Vibration:15g[10-2000Hz]
- Impact :100g[6ms]
- Salt spray corrosion test: 96h under 5%Nacl liquid
- Waterproof level: comply with IP68

尺寸	最大通过线径	最多针芯数	开孔尺寸	Termination methods (weld)	Termination methods (PCB board)
				端接方式 (焊接)	端接方式 (PCB接)
1W	7 mm	16	M14×1	✓	✓
2W	10 mm	32	M16×1	✓	✓
3W	12 mm	30	M20×1	✓	✓



F FX-HDMI

Main features

- Straight push-and-pull structure
- Quick push pull five-key positioning
- High density, small volume, blind insertion
- Shielding, sealing, environmental resistance, high plug life, light weight
- Can insert without looking, easy to operate

Technical feature

- Insert life time:5000 times
- Differential transmission rate:3.4Gbps
- Work temperature : -55℃ -+200℃
- Relative humidity: 90%~95%(40±2℃)
- Vibration:15g[10Hz-2000Hz]
- Impact :100g[6ms]
- Salt spray corrosion test: 300h under 5% Nacl constant spray
- Waterproof level: comply IP68

Size	Max cable size	interface type	Differential transmission rate	hole size	Termination methods (weld)	Termination methods (PCB board)
尺寸	最大通过线缆直径	接口类型	差分传输率	开孔尺寸	端接方式(焊接)	端接方式(PCB接)
104	10mm	HDMI/DP/DVI	3.4Gbps	M16x1	√	√

F FX-Gigabit Lan

Main features

- Straight push-and-pull structure
- Quick push pull five-key positioning
- High density, small volume, blind insertion
- Shielding, sealing, environmental resistance, high plug life, light weight
- Can meet the gigabit network standard protocol high-speed signal transmission

Technical feature

- Insert life time:5000 times
- Differential transmission rate:250Mbps
- Work temperature : -55℃ -+200℃
- Relative humidity: 90%~95%(40±2℃)
- Vibration:15g[10Hz-2000Hz]
- Impact :100g[6ms]
- Salt spray corrosion test: 300h under 5% Nacl constant spray
- Waterproof level: comply IP68

Size	Max cable size	interface type	Differential transmission rate	hole size	Termination methods (weld)	Termination methods (PCB board)
尺寸	最大通过线缆直径	接口类型	差分传输率	开孔尺寸	端接方式(焊接)	端接方式(PCB接)
1031	8mm	千兆网	250Mbps	M14x1	√	√

F FX-USB3.0

Main features

- Straight push-and-pull structure
- Quick push pull five-key positioning
- High density, small volume, blind insertion
- Shielding, sealing, environmental resistance, high plug life, light weight
- Can meet the USB3.0 standard protocol for high-speed signal transmission

Technical feature

- Insert life time:5000 times
- Work temperature : -55℃ -+200℃
- Differential transmission rate:5Gbps
- Relative humidity: 90%~95%(40±2℃)
- Vibration:15g[10Hz-2000Hz]
- Impact :100g[6ms]
- Salt spray corrosion test: 300h under 5% Nacl constant spray
- Waterproof level: comply IP68

Size	Max cable size	interface type	Differential transmission rate	hole size	Termination methods (weld)	Termination methods (PCB board)
尺寸	最大通过线缆直径	接口类型	差分传输率	开孔尺寸	端接方式(焊接)	端接方式(PCB接)
1031	8mm	USB3.0+power supply	5Gbps	M14x1	√	√

F FX-Gigabit network

Main features

- Straight push-and-pull structure
- Quick push pull five-key positioning
- High density, small volume, blind insertion
- Shielding, sealing, environmental resistance, high plug life, light weight
- Can meet the gigabit network standard protocol high-speed signal transmission

Technical feature

- Insert life time:5000 times
- Differential transmission rate:2.5Gbps
- Work temperature : -55℃ -+200℃
- Relative humidity: 90%~95%(40±2℃)
- Vibration:15g[10Hz-2000Hz]
- Impact :100g[6ms]
- Salt spray corrosion test: 300h under 5% Nacl constant spray
- Waterproof level: comply IP68

Size	Max cable size	interface type	Differential transmission rate	hole size	Termination methods (weld)	Termination methods (PCB board)
尺寸	最大通过线缆直径	接口类型	差分传输率	开孔尺寸	端接方式(焊接)	端接方式(PCB接)
1031	8mm	千兆网	250Mbps 2.5Gbps	M14x1	√	√



J JX-AC series (AC power supply dedicated)



Main features

- Safety divider push-pull self-locking system
- Double positioning of semicircular key, more reliable against misinsertion
- With red identification ring

Technical feature

- Voltage resistance: 1000V (AC)
- Insert life time: 5000 times
- Work temperature : -55°C~+200°C
- Relative humidity: 90%~95%(40±2°C)
- Vibration: 15g[10Hz-2000Hz]
- Impact : 100g[6ms]
- Salt spray corrosion test: 96h under 5% NaCl constant spray
- Waterproof level: comply IP68

Work current	Max cable size	multi pin no	hole size	Termination methods (weld)	Termination methods (PCB board)
工作电流	最大通过线缆直径	最多针芯数	开孔尺寸	端接方式(焊接)	端接方式(PCB接)
single pin 13A	7.2mm	3	M14x1	√	√

DB DB-Y-5JTDB-Y-5KZ(power supply dedicated)



Main features

- Can provide system solutions, including component machining
- Insert without looking, easy to operate
- Strong shell
- Transmission reliable
- Over 5,000 times push and pull

Technical feature

- Minimum using temperature: -55°C
- Maximum using temperature+200°C
- Relative humidity: 90%~95%(40±2°C)
- Vibration: 10Hz-2000Hz accelerated speed 147m/s² transient interruption ≤ 1μs
- Impact : 980m/s² transient interruption ≤ 1μs
- Salt spray corrosion test: 96h under 5% NaCl spray
- Waterproof level: IP68

Max cable size	multi pin no	hole size	Termination methods (weld)	Termination methods (PCB board)
最大通过线缆直径	最多针芯数	开孔尺寸	端接方式(焊接)	端接方式(PCB接)
11.5 mm	3+2	Φ17	√	√

J JX-DC series (DC power supply dedicated)



Main features

- Safety divider push-pull self-locking system
- Double positioning of semicircular key, more reliable against misinsertion
- With yellow identification ring

Technical feature

- Voltage resistance: 750V (AC)
- Insert life time: 5000 times
- Work temperature : -55°C~+200°C
- Relative humidity: 90%~95%(40±2°C)
- Vibration: 15g[10Hz-2000Hz]
- Impact : 100g[6ms]
- Salt spray corrosion test: 96h under 5% NaCl constant spray
- Waterproof level: comply IP68

				Termination methods (weld)	Termination methods (PCB board)	
Work current	Max cable size	multi pin no	hole size			
工作电流	最大通过线缆直径	最多针芯数	开孔尺寸	端接方式(焊接)	端接方式(PCB接)	
2pin, single pin 1A	2芯, 单芯10A	5.5mm	2	M9×0.5	√	√
3pin, single pin 8A	3芯, 单芯8A	5.5mm	3	M9×0.5	√	√
4pin, single pin 6A	4芯, 单芯6A	5.5mm	4	M9×0.5	√	√

TZ Coaxial / Coaxial mixed connector



Coaxial mixed



Waterproof Coaxial

Main features

- Safe plug - out self - locking system
- Coaxial, triaxial and mixed needle core configuration
- Multi - bell positioning pin selection, to avoid intermixing between connectors
- Up to 10 coaxial cores
- High-density installation, saving space
- EMC Shielding
- Waterproof level: IP68

Size	Max cable size	multi pin no	Termination methods (weld)	Termination methods (PCB board)
尺寸系列	同轴+针芯数	最大通过线缆直径	端接方式(PCB接)	端接方式(焊接)
0号	1+4	6mm	√	√
1号	1+3	7.5mm	√	√
	1+5	7.5mm	√	√
	1+7	7.5mm	√	√
	1+9	7.5mm	√	√
2号	1+6	9.7mm	√	√
	1+10	9.7mm	√	√
	1+13	11.9mm	√	√
3号	2+6	11.9mm	√	√
	2+10	11.9mm	√	√



TL TL24(Radio audio dedicated)



Main features

- Quick push pull
- Easy to use, small size, beautiful appearance
- Good resistance to environment
- EM I/RFI shielding
- Mainly used for thousands of radio stations

Technical feature

- Work temperature : -55°C~+200°C
- Work pressure:4.39kPa · 101.33kPa
- Impact :490m/s² transient interruption≤1μs
- Operating current: 3A(22#)
- Operating voltage:400V(AC)
- Plug insert with socket 2 hours no water leak
- Sealing: socket: differential pressure1.01 ✖105pa, 1min no bubble leak
- Relative humidity: 90%~95%(40±2°C)
- Vibration:10Hz-2000Hz, accelerated speed 147m/s², Transient interruption≤1μs
- Salt spray corrosion test: 96h under 5% Nacl constant spray
- Mechanical life time:5000times
- Contact resistance 12.5MΩ
- Voltage:1000V(AC)
- Insulator resistance ≥5000MΩ
- Waterproof level: comply IP68

Max cable size multi pin no hole size			Termination methods (weld)	Termination methods (PCB board)
最大通过线缆直径	最多针芯数	开孔尺寸	端接方式 (焊接)	端接方式 (PCB接)
8mm	14	螺纹安装M14 方盘安装	√	√

Screw installation M14
Square plate installation

YW YW series



Main features

- Installation dimensions conform to GJB599A
- Performance index conforms to GJB598A
- Transfer RJ45HDM I USB RJ11 1394
- Product material copper alloy stainless steel aluminum alloy
- Socket adapter type, with bayonet and double bayonet
- USB has 2.0 and 3.0 standards
- Salt spray corrosion test: over 96h
- Waterproof grade: I P68 (plug insert with socket)

TJ Flat connector



Main features

- Screw locking
- Product material copper alloy stainless steel aluminum alloy
- Good expansibility (optional two coaxial, 4 pin, 8 pin, 12 pin)
- Save space
- Waterproof grade: IP68

Max cable size			Termination methods (weld)	Termination methods (PCB board)
multi pin	no	hole size		
最大通过 线缆直径	最多针芯数	开孔尺寸	端接方式 (焊接)	端接方式 (PCB接)
6mm	两同轴/4/8/12	28.2x5.6mm	√	√
Two coaxial/4/8/12				

YL YL Series



Main features

- Snap on quick connect
- Termination methods has welding and printed board weld
- High reliability wire spring jack
- A variety of shielded and unshielded forging layers are available
- Straight and bent and other tail accessories

Main features

- Work temperature : -55°C~+125°C
- Salt spray corrosion test: 96h under 5% Nacl constant spray
- Work pressure:4.39kPa·101.33kPa
- Impact :980m/s² transient interruption≤1μs
- Insulator resistance normal state 5000MΩ

- Operating current: 3A~7.5A
- Sealing: socket: differential pressure1.01 ✖105pa, 1min no bubble leak Plug insert with socket 2 hours no water leak
- Operating voltage: 4.39KPa-101.33KPa
- Vibration:10Hz-200GHz
- Mechanical life time:500times
- Contact resistance 12.5MΩ
- Voltage:1000V(AC)

Size	Max cable size	multi pin no	hole size	Termination methods (weld)	Termination methods (PCB board)
尺寸	最大通过线缆直径	最多针芯数	开孔尺寸	端接方式 (焊接)	端接方式 (PCB接)
06	6mm	7	M12x1.0	√	√
08	7mm	9	M14x1.0	√	√
10	8mm	13	M18x1.0	√	√

M M8 M12 Series



Main features

- Standard interface
- Good compatibility
- Thread locking
- Different keys position to prevent misinsertion
- Signal transmission is stable and reliable
- Classification: Signal, power, Industrial I\0, data, hybrid

Technical feature

- Service life: 500times
- Working temperature
 - PVCcable-40 °C~+B0 °C
 - TPUcable-40 °C~+B0 °C
- Relative humidity:90%-95% (40±2°C)
- Shielding property: 75dB (10 MHz)
- Vibration: 15g[10Hz-2000Hz]
- Salt spray corrosion test: 96h under 5% Nacl constant spray
- Waterproof level: IP68 (lock status)

Size	interface size	pin no	Termination methods (weld)	Termination methods (PCB board)
尺寸	接口尺寸	针芯数	端接方式 (焊接)	端接方式 (PCB接)
M8	M8x1	3/4/5/6/8	√	√
M12	M12x1	3/4/5/8/12/17	√	√

XS Cable assembly



Main features

- To provide users with complete personalized connector components processing solutions stainless steel aluminum alloy
- Advanced production and testing equipment, experienced management and technical personnel
- Rigorous process, clear process, standard operation can guarantee components meet customer requirements and are highly consistent