J30J Metal-Shell Micro-D Connectors

1.27 mm pitch · 5 to 144 contacts · twist-pin contacts



Pitch	1.27 mm
Contacts	5 to 144
Current rating	3 A
Temperature	–55 to +125 °C
Mating cycles	500

Key features

- Gold-plated twist-pin contacts with seven contact points each
- Built to GJB 2446, the Chinese counterpart of MIL-DTL-83513
- Aluminum, stainless-steel or nickel-plated phosphor-bronze shells
- Potted-sealed and glass-sealed (hermetic) versions
- Crimp contacts for 0.035–0.15 mm² wire; pre-wired to your length and colors
- Custom configurations and pre-wired assemblies to your drawing
- Cost-optimized -LC crimp versions for cable assemblies: metal shell (9–100 contacts) or plastic shell (9–51 contacts)

Specifications

Electrical

Parameter	Value	Condition
Current rating	3 A	
Dielectric withstanding voltage	800 VAC	Sea level (101.3 kPa)
Dielectric withstanding voltage	150 VAC	Low pressure (4.39 kPa)
Insulation resistance	≥ 5000 MΩ	Initial
Insulation resistance	≥ 1000 MΩ	After 24 h humidity pre-conditioning
Insulation resistance	≥ 1 MΩ	After humidity test
Contact resistance	≤ 10 mΩ	Before durability test, excluding wire
Contact resistance	≤ 20 mΩ	After durability test, excluding wire
Low-level contact resistance	≤ 32 mΩ	Excluding wire

Mechanical

Parameter	Value	Condition
Contact pitch	1.27 mm	
Contact engaging force	≤ 1.68 N	Per contact
Contact separating force	≥ 0.14 N	Per contact
Connector mating force	≤ 2.8 N × n	n = number of contacts

Mechanical		
Parameter	**Value**	**Condition**
Connector separating force	≥ 0.14 N × n	n = number of contacts
Durability	500 mating cycles	
Wire size (crimp)	0.035–0.15 mm²	0.1–0.15 mm² recommended

Environmental		
Parameter	**Value**	**Condition**
Operating temperature	–55 to +125 °C	
Vibration	10–2000 Hz	Acceleration tested to your requirements
Shock	735 m/s²	
Acceleration	735 m/s²	
Salt spray	1000 h	Stainless-steel shell
Salt spray	48 h	Aluminum-alloy shell
Mold resistance	Grade 2	GJB 150.10A-2009
Leak rate (M1 glass-sealed)	Tested to your requirements	

Cost-optimized versions (-LC)		
Parameter	**Value**	**Condition**
Rated current	3 A	
Withstanding voltage	800 VAC at sea level, 150 VAC at 4.39 kPa	
Contact resistance	30 mΩ	
Insulation resistance	≥ 5000 MΩ / ≥ 100 MΩ / ≥ 1 MΩ	Normal / steady damp heat / cyclic damp heat
Vibration / shock	10–2000 Hz, 196 m/s² / 735 m/s²	
Salt spray	1000 h stainless shell, 48 h aluminum or composite	
Wire	0.035–0.15 mm² (0.1–0.15 mm² recommended)	

Versions

Series code	Version	Notes
J30J	Standard metal-shell Micro-D	
J30J-...-LC	Cost-optimized crimp version, electroless-nickel metal shell	9 to 100 contacts, 3 A, 800 VAC; -A-LC adds a straight cable clamp and metal shielding sleeve
J30-...-LC	Cost-optimized plastic-shell crimp version	9 to 51 contacts, 3 A, 800 VAC

How to order

J30J [variant] - [contacts] [type] [termination] [locking] - [finish] [modification]

Example: **J30JS-25ZKW** — Stainless-steel shell, 25 contacts, receptacle with socket contacts, right-angle PCB termination

Code segment	Options
Variant	**(none)** Standard
Variant	**A** Quick-lock
Variant	**S** Stainless-steel shell
Variant	**C** Phosphor-bronze shell, nickel plated
Variant	**M** Potted (resin) sealed
Variant	**M1** Glass-sealed (hermetic)
Variant	**R** Reverse-mount, used with TK or ZJ
Contacts	**5 – 144** 5, 9, 15, 21, 25, 31, 37, 51, 66, 74, 100, 144
Type	**TJ** Plug with pin contacts
Type	**TK** Plug with socket contacts
Type	**ZJ** Receptacle with pin contacts
Type	**ZK** Receptacle with socket contacts
Termination	**(none)** Crimp, supplied with wires
Termination	**S** Solder cup
Termination	**N** Straight PCB
Termination	**W** Right-angle PCB
Locking hardware	**K, L, P** Locking hardware types — see locking hardware table
Shell finish	**(none)** Nickel
Shell finish	**G** Cadmium
Modification	**A** Shield clamp at rear of shell
Modification	**C** Wire exit perpendicular to contact axis
Modification	**D** Anti-rotation feature on receptacle flange
Modification	**AD** A and D combined
Modification	**Q** Widened flange
Modification	**J** PCB grid 1.27 × 2.54 mm

Pre-wired versions are supplied with 0.12 mm² AFR-250 white wire, 300 mm long, unless you specify otherwise. Wire type, size (0.10–0.15 mm²), color and length can be specified in brackets after the part number.

For different wire requirements on individual contacts, send us a pin-out list.

Cadmium finish (G) is not RoHS compliant and is supplied only on request; nickel is the standard finish.

Standards

- **GJB 2446** — General specification for shell-located subminiature rectangular connectors — the Chinese counterpart of MIL-DTL-83513.

Request a quote or drawing: https://sinoxh.com/request-a-quote/?product=J30J