

J30J series Connector

Metal shell includes 8 types: 9、15、21、25、31、37、51、100 cores, using twist wire spring pin (twist pin). The performance specification meets the requirements of MIL-C-83513 and GJB2446. J30J connectors include kinds of retaining member for choosing. They are widely used for electric connector in the military electric equipment.

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Product solid picture

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brief introduction

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? This series of products is equivalent to MDM Products;
 ? The series of nine products 9,15,21,25,31,37,51,66,74,100cores.
 ? The product uses flexible pin(twist pin) , high density connection;
 ? The section area of suitable cable is 0.1~0.15 mm², so does the cable of section area for 0.07 mm², but the type of product is special;
 ? Connectors Retaining Member of this series of products with the requirements of orders for products assembled by the supplier. If not specified in the contract should Retaining Member Connectors;
 ? The mini-series of products to meet the positioning GJB2446< shell rectangular connector -- General Standards (equivalent MIL-C-83513) demands;
 ? The performance standard:
 Technical conditions for Q/Ln.J6-69-92 J30 subminiature rectangular connectors?

specification

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Ambient Temperature Range	-55~+125 ?
Relative Humidity	up to 95% at +40?
Low gas pressure	4.5 kPa 200V
Vibration	10~2000 Hz 196 m/s ²
Radom Vibration	Power density 0.4G ² /Hz total acceleration-root-mean square is 23.1G
Shock	735 m/s ² 11ms ²
Acceleration	735 m/s ²
Rated current	3A
Contact Resistance	=10 mO
Insulation Resistance	=5000 MO
Dielectric Strength	800 V
Durability	500 times

how to order

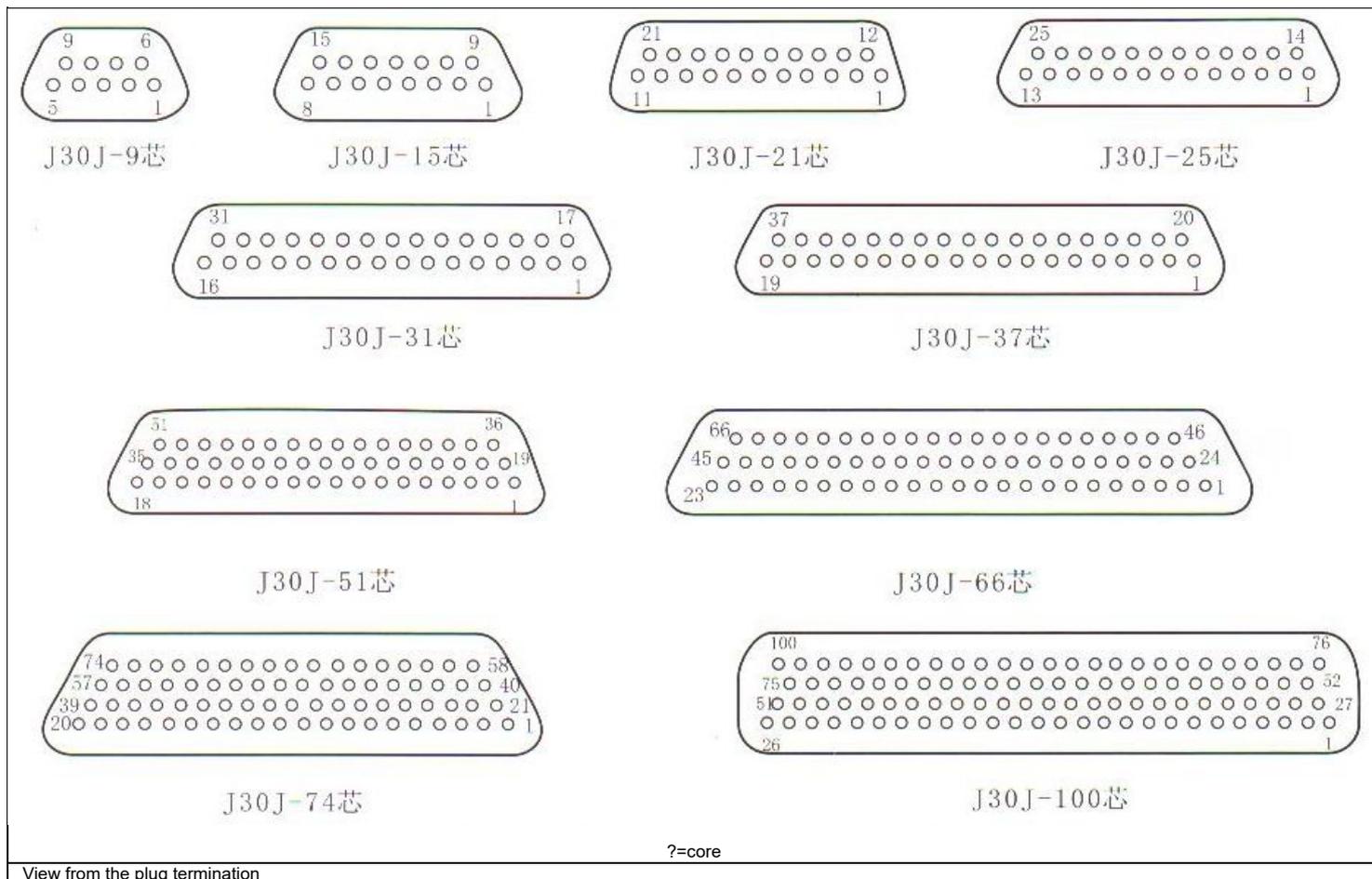
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How to order J30J connectors
 $\frac{J30J}{?} \frac{x}{?} - \frac{x}{?} \frac{TJ/ZK}{?} \frac{x}{?} \frac{x}{?} - \frac{x}{?} \frac{x}{?}$ (covering)
 ?:J30J —Series Prefix
 ? :x —Variations:
 No designator—basic type A—fast locking type C— the outer material is tin phosphor copper and plating nickel
 D— mounting hole changed for M2-6H M— sealed with glue M1— sealed with agglutination glass
 ? :x —Number of Contacts:9?15?21?25?31?37?51?74?100
 ? :TJ/ZK —Type of connectors and contacts:
 TJ— pin in the plug ZK—socket in the receptacle TJ?ZK is fixation couple
 Generally the connector with letter "TJ" called plug, and the connector with letter "ZK" called receptacle.
 ? :x —Termination Style: no designator—crimp contact S—solder contact N—in-line contact for PCB W—right angle contact for PCB
 ? :x —Hardware: see J30J retaining member
 ? :x —Plating Layer: no designator—plating cadmium G—plating nickel
 ? :x — Variation:A—the outer tail end with EMI/RFI cable clamp C— suitable for contact and wire is right angle D—the termination end of receptacle outer flange with spin proof groove AD—the combination of variation A and D J—the interval of PCB reseau is 1.27*2.54(row × line) Q—outer flange widen
 Note:the covering is not included in the ordering information, please mark the cable type in the bracket. For example: the sectional area, the length and the color of cable. If the relative of connecting cable is special, please give the connecting cable table.
 For example
 J30J – 31 ZKP GAD (11.6)(using the cable for AFR-250 0.12mm², length is 300mm, with chinlon and silk sleeve)
 Means the J30Jreceptacle, the number of contacts is 31, socket in receptacle, the termination style is crimp

contact, and the connector with type P retaining member , tail cover and cable clamp, and the cables are sleeved with Pyrocondensation tube and EMI/RFI net. The outer and cable clamp and tail cover is plated nickel, the outer flange with spin proof groove and the width of flange is 11.6mm; the mark of cable is AFR-250, and the section area is 0.12mm², the length of wire is more than 300mm, the color of the cable is willful, but the connectors ordered at the same time must be same and all of the hole positions crimp contacting with cable(for the color and hole position of cables are not mentioned in the covering). The cables outer sleeved with chinlon and silk.

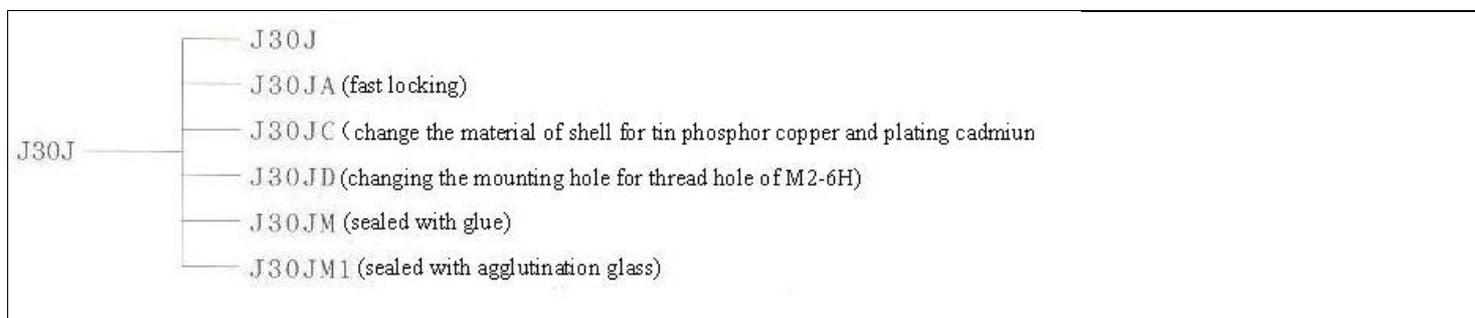
Contact Arrangements

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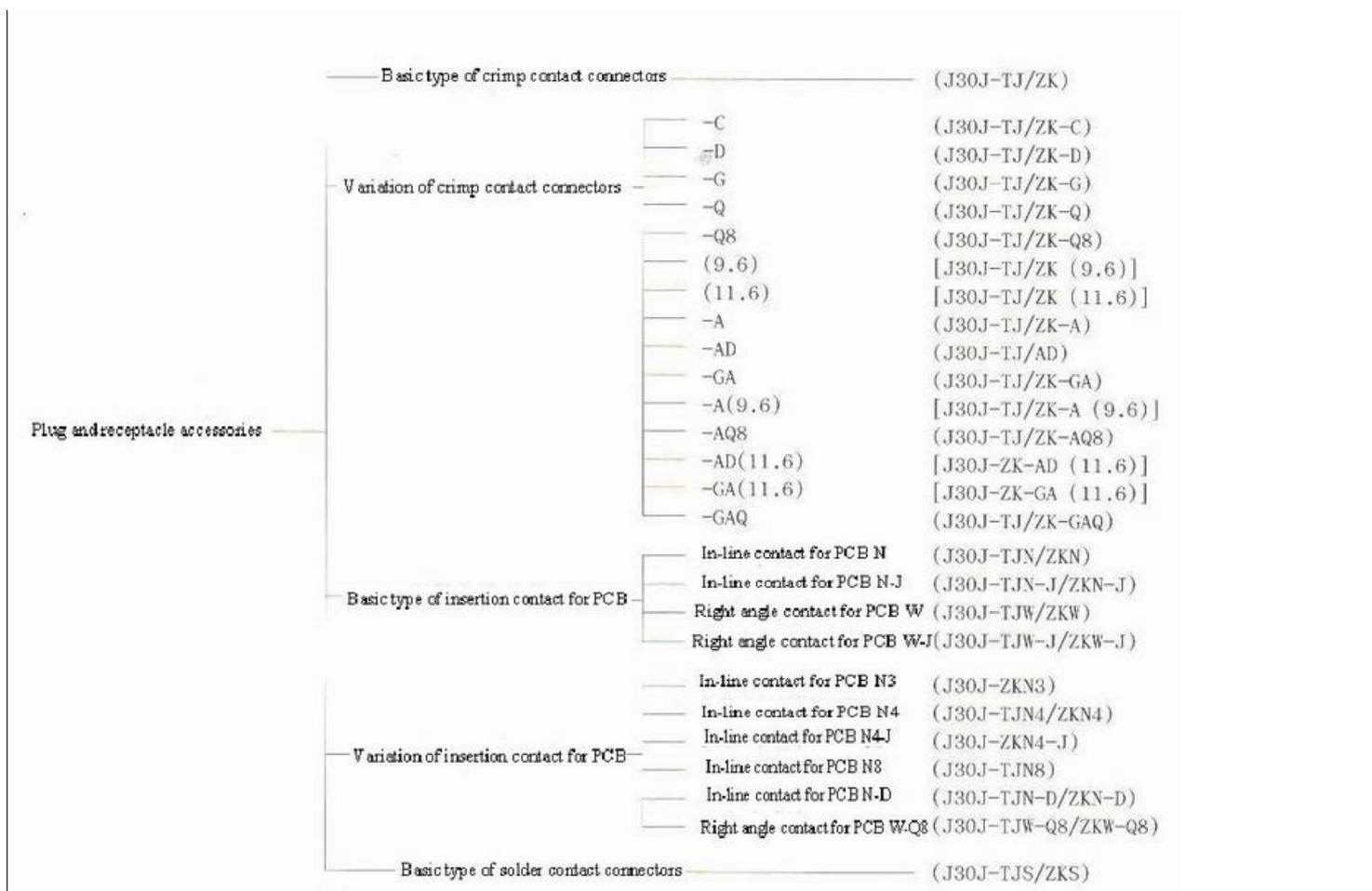
The Family Tree

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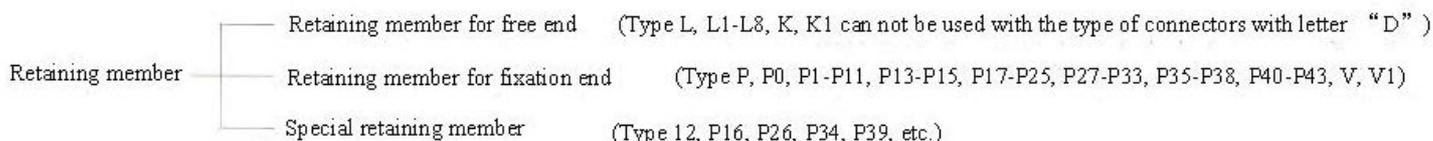


The family tree of J30J connectors is as follow:

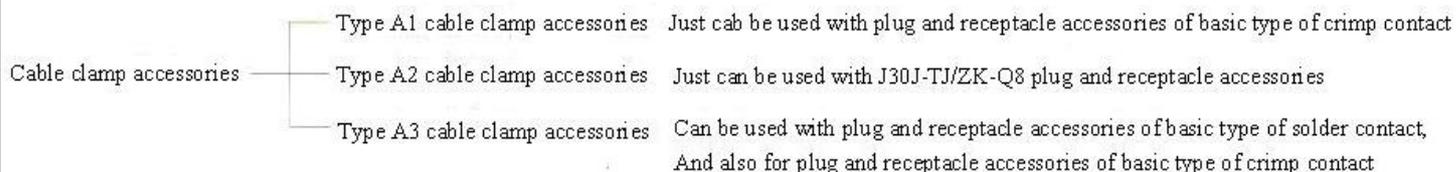
[Family tree of plug and receptacle accessories](#)



Family tree of retaining member



Family tree of cable clamp accessories



Notice for Selecting and Using

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The plug and receptacle accessories must be selected while selecting the J30J connectors, so that can select plug and receptacle with the function of locking. And the cable clamp accessories are unnecessary, the selection subject to the customer's requirements.

Because the plug, receptacle, and cable clamp accessories are not combined willfully and the different characters of connectors, the selection and using of the J30J connectors must follow the following notices:

1? The selection and using of cable clamp accessories should follow the ruler of "the family tree of cable clamp accessories". And the plug and receptacle accessories with cable clamp accessories can not be used with retaining member from front board installation (that means the mounting screws of retaining member that are suitable for installing from front board, such as: P, P8, P9, etc.), because the cable clamp accessories make the installation board mount impossible; if the plug and receptacle accessories with cable clamp accessories are used with retaining member from back board installation (that means the mounting screws of retaining member that are suitable for installing from back board, such as: P0, P3, P4, P11, etc.), the installation board thickness should be "installation board thickness+0.7".

2? Because the basic type of solder contact plug and receptacle accessories (J30J-TJS/ZKS) are coupled with type A3 cable clamp accessories, the variation for J30J-TJS/ZKS-G plug and receptacle accessories are coupled with type A3 cable clamp accessories too. For keeping the cable clamp is the same with the plating layer, it should be plated nickel. And at present there are no designing pictures for cable clamp plated nickel, needing design for producing parts at the time of ordering. So it must be thought of when confirm the ordering cycle.

3? The types of plug and receptacle accessories with letter "D" can not be mounted with retaining member of type L, L1-L8, K, K1, etc.

4? If The types of plug and receptacle accessories with letter "D" need to be mounted with retaining member from back board installation (that means the mounting screws of retaining member that are suitable for installing from back board, such as: P0, P3, P4, P11, etc.), the installation board thickness should be "installation board thickness+0.6".

5? The J30J-TJ/ZK-Q plug and receptacle accessories is mounted with rubber washer of flange surface, and it is useful just at the time of the plug and receptacle accessories mounted with retaining member for fixation end, and it is un-useful at the time of the plug and receptacle accessories mounted with retaining member for free end. If the plug and receptacle accessories are mounted with special retaining member, the mounting of the rubber washer of flange surface subject to whether the retaining member fixed with installation board. And for the unified of product state, the rubber washer is coupled with product and leaves from factory regardless of the situations of the coupled retaining member.

6? The cables of variation of crimp contact plug and receptacle accessories with letter "A" are sleeved with heat conductor, RMI/RFI shielding. If do not need it, please mark on the contract. And if ask for sleeve with chinlon and silk sleeve, please mark on the contract too.

7? If most of the holes need to contact with cables with large section area (such as AFRP-250 and AFPF-1 EMI/RFI cable), we must notice that whether the capacity of the encapsulation cavity and cable clamp accessories (when it with cable clamp) is enough. And it is known after experiment.

8? If the crimp contact cables were cables with no plating layer, or plated with tin, or single core cables, the contract is not a standard contract, so we should mark out the statement of cable on the contract. This type of cables includes AFR-200 cables, like cables 82A01111 that begin with 82A, and the soft and round cooper cables.

The processing of the empty point. If there is no technical agreement or haven't reached an agreement, they are all stopped up with socket or pin whose cables haven't been crimp contact.