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Specs

(The document is for reference only. We reserve the right to update it at any time without prior notice. Please contact the business department for the latest standards.)

一． Material Name: Aviation Header Male and Female

二． Soulin Model: Aviation Header M12 (GX12) Series

三． Technical Parameter ：

1． Electrical character

Rated current: 5A for 2P,3P, and 4P; 3A for 5P,6P, and 7P

Rated voltage: 125V

Contact resistance: ≤10mΩ

Insulation resistance: ≥1500mΩ

Voltage rating: AC 1500V

2． Mechanical properties

Mechanical life: ≥100 cycles

3． Materials and Surface Treatment

(1) Contact

Female terminal production process: Phosphor bronze stamping

Male round pin production process: Brass carving parts

Surface treatment electroplating:

Male connector pins feature nickel-plated base with silver-plated surface (salt spray 24 hours).

Female connector terminals feature nickel-plated base with tin-plated surface (salt spray 24 hours).

(2) Plastic parts

Material: High-temperature resistant Bakelite (Gumwood), black (UL94V-0)

Production process: Injection molding

(3) Body

Material: Zinc alloy

Production process: Die casting

Surface treatment: Nickel plating (salt spray 24 hours)

Accessory gasket: Manganese steel nickel plating (8 hours salt spray)

Accessories: Hexagonal nut with nickel-plated zinc alloy (salt spray test for 24 hours)

4． Work environment

Working temperature: -40℃~105℃

四． Protection rating: Waterproof seal lock for male/female connectors (IP54)

五． Material description:

1． Base situation

This connector is an M12 (GX12) type socket.

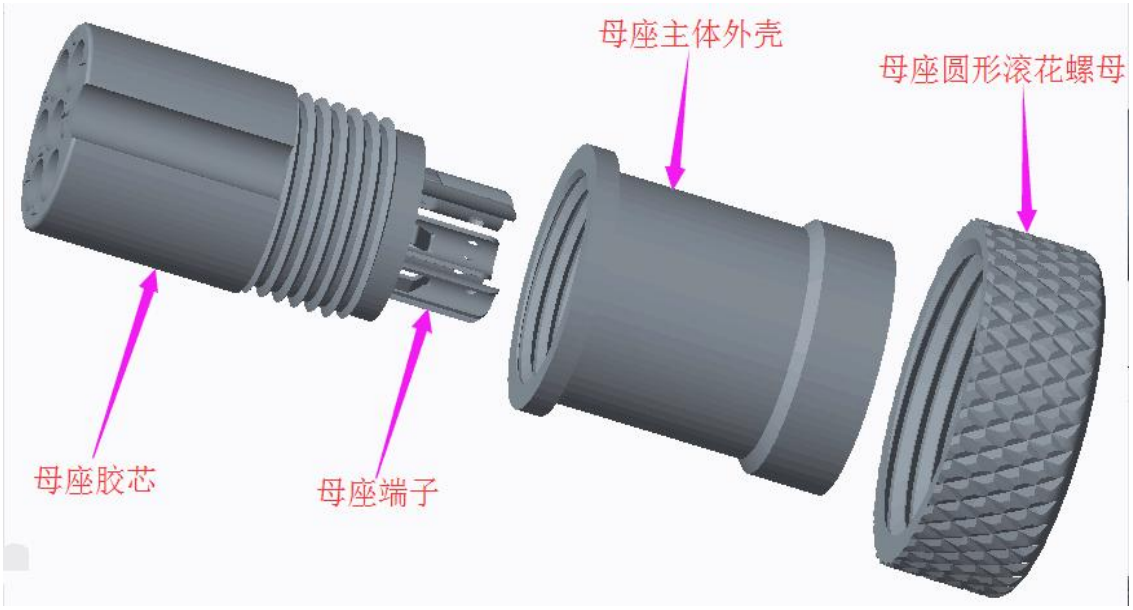
When storing packaged products, place the packaging cartons in dry, moisture-proof, dust-proof, and

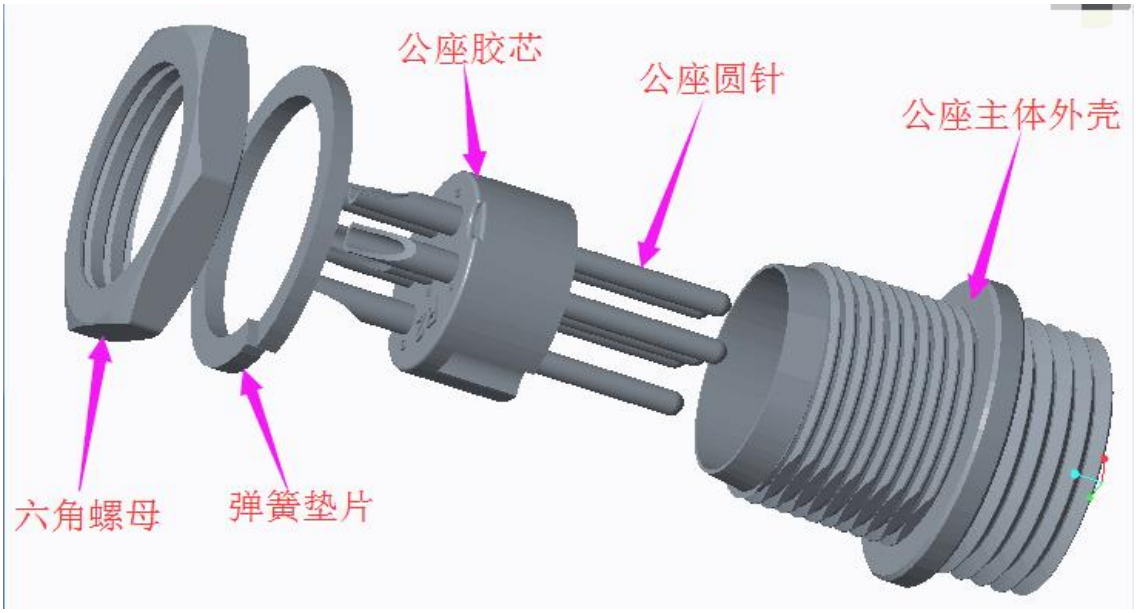
mildew-proof shipping containers. The packing list and shipping container must clearly indicate the product model, name, serial number, quantity, manufacturer's mark, trademark, date, and inspection seal. Ensure the shipping container meets all applicable transportation requirements.

Packaged products should be stored in warehouses with ambient temperatures between -10°C and 30°C, relative humidity not exceeding 65%, and free from acidic, alkaline, or other corrosive gases in the surrounding air. Under these conditions, the storage period shall not exceed 4 months from the production date. If unused beyond 4 months, the product must pass re-inspection before normal use.

2. Process application: The male terminal supports both wire bonding and PCB assembly (including high-temperature reflow soldering), while the female terminal is exclusively compatible with wire bonding.

VI. Product composition diagram:





7. Material composition

	Name	Material quality	Number of packages	Working over
Female Header	Base Shell	Kirsite	1	Nickelage
	Round knurled nut	Kirsite	1	Nickelage
	Terminal	Phosphor copper	2-7P	Tin-plating
	Rubber core	Bakelite (Gumwood)	1	Black
Male Header	Main Shell	Kirsite	1	Nickelage
	Round Needle	Yellow metal	2-7P	Silver plating
	Public Plastics	Bakelite (Gumwood)	1	Black
	Spring shim	Manganese steel	1	Nickelage
	Hexagon nut	Kirsite	1	Nickelage

8. Product size: refer to the attached drawings.

Made by: You Chuan Review: Deng Tonggui Approved by: He Ling