



M12 Female Field Wirable Angled Connector with 12 Pin A-CODE Keying and IP67 Protection

Our Product Introduction

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Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: H1212FA-9
- Minimum Order Quantity: 10 pieces
- Price: Negotiable
- Packaging Details: Paper box packing
- Delivery Time: 5-8 working days
- Payment Terms: T/T
- Supply Ability: 100000 pieces per month

KRONZ

Product Specification

- Standard: IEC 61076-2-101
- Pin Count: 12 Pin
- Coding: A-CODE
- Connection Method: Solder Connection (Field Wirable)
- Cable Outlet Diameter: 6-8 Mm (PG9)
- Seal Material: FPM / FKM
- Highlight: **12 Pin M12 Female Connector, A-CODE Keying Field Wirable Connector, IP67 Protection Angled Connector**

Product Description

M12 Female Field Wirable Assembly, Angled

H1212FA-9 is a field-wirable M12 female angled connector designed for industrial automation and fieldbus applications where space is limited, such as sensors, actuators, I/O modules, and control cabinet wiring.

Product Overview

The 90-degree angled outlet structure reduces cable bending radius and saves installation space compared with straight connectors. The 12-pin female interface with A-CODE keying effectively prevents mis-mating. Brass gold-plated contacts combined with solder bucket terminals provide a secure, low-resistance connection for technicians who prefer permanent solder wiring in demanding industrial environments. The connector features a robust PBT/PA black grip body with a brass nickel-plated coupling nut, offering excellent mechanical strength and corrosion resistance. Seals are made of FPM/FKM material, achieving IP67 protection and stable performance in dusty, oily, and briefly submerged environments. The product complies with IEC 61076-2-101 and supports more than 100 mating cycles, making it suitable for machine tools, robots, logistics conveyors, and new energy equipment.

Key Specifications

Parameter	Value
Ordering Model	H1212FA-9
Type	Female / Angled (90°)
Pin Count	12 Pin
Coding	A-CODE
Connection method	Solder Connection
Cable Gland	6-8 mm (PG9)
Rated Current	1.5 A
Rated Voltage	30 V
Protection Class	IP67
Operating Temperature	-25 ~ +85

Technical Parameters

Parameter	Value
Standard	IEC 61076-2-101
Pin Count	12 Pin
Coding	A-CODE
Rated Current	1.5 A
Rated Voltage	30 V
Contact Resistance	≤ 5 mΩ
Insulation Resistance	≥ 100 MΩ
Connection method	Solder Connection (Field Wirable)
Cable Outlet Diameter	6-8 mm (PG9)
Protection Class	IP67
Operating Temperature	-25 ~ +85
Pollution Degree	3

Mechanical Life	>100 Mating Cycles
Grip Body Material	PBT / PA, Black
Coupling Nut Material	Brass, Nickel-plated
Contact Material	Brass, Gold-plated
Contact Carrier Material	PA, Black
Seal Material	FPM / FKM

Note: The above are typical parameters. Please evaluate the actual application in combination with cable specifications, installation method, and environmental conditions.

Product Features

12-pin high-density female interface with A-CODE keying prevents mis-mating and improves system safety.

90-degree angled housing saves routing space and reduces cable bend stress in compact enclosures.

IP67 industrial protection blocks dust and water jets, suitable for outdoor, machine tool, and washdown environments.

Solder bucket termination allows robust, low-resistance field wiring for applications requiring permanent connections.

Brass nickel-plated coupling nut and gold-plated contacts resist corrosion and oxidation for long-term reliability.

Contact resistance as low as $\leq 5\text{ m}\Omega$ ensures stable signal transmission with minimal power loss.

Wide operating temperature range from -25°C to $+85^\circ\text{C}$ covers most industrial high/low temperature challenges.

Applications

H1212FA-9 is suitable for a variety of industrial scenarios requiring reliable field connection of sensors and actuators to control systems, especially where space is constrained and solder termination is preferred.

Industrial Automation: PLC, I/O modules, sensors, and actuators field wiring in compact cabinets.

Machine Vision & Inspection: Multi-core signal transmission for cameras and lighting controllers.

Robotics & Conveyors: Resistant to vibration and oil, meeting mobile equipment connection requirements.

Frequently Asked Questions

Q: How many conductors does H1212FA-9 support?

A: H1212FA-9 is a 12-pin female angled field-wirable connector with A-CODE keying, rated at 1.5 A / 30 V, suitable for 12-core shielded or unshielded industrial cables.

Q: What cable diameter fits the cable gland?

A: The integrated PG9 cable gland suits cable outer diameters of 6-8 mm. The clamp body provides reliable strain relief and sealing.

Q: What is the protection class and operating temperature range?

A: Protection class is IP67 (dust-tight and protected against temporary immersion). Operating temperature range is -25°C to $+85^\circ\text{C}$.

Q: Does H1212FA-9 use screw or solder termination?

A: H1212FA-9 uses solder bucket termination, which provides a robust, low-resistance connection preferred for permanent industrial installations.

Q: How is mis-mating prevented?

A: The connector uses A-CODE keying with a 12-pin arrangement. Only matching male and female connectors can mate correctly, preventing equipment damage from mis-insertion.

Ordering Information

Item	Details
Ordering Model	H1212FA-9
Product Name (CN)	M12 母 弯型, 接器
Product Name (EN)	M12 Female Field Wirable Assembly, Angled
Key Specifications	12-pin / A-CODE / 6-8 mm (PG9) / IP67 / Angled / Solder

For bulk quotation, custom harness matching, or sample requests, please contact the sales team with detailed requirements.

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