

12-Pin M12 Male Field Wirable Connector with 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: H1212MV-0
- 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



Product Specification

- Standard: IEC 61076-2-101
- Pin Count: 12 Pin
- Coding: A-CODE
- Rated Voltage: 30 V
- Rated Current: 1.5 A
- Operating Temperature: -25 ~ +85
- Highlight: **12-Pin M12 Connector, A-CODE Keying Field Wirable Connector, IP67 Protection Industrial Connector**

Product Description

M12 Male Field Wirable Assembly, Straight

H1212MV-0 is a field-wirable M12 male straight connector designed for industrial automation and fieldbus applications such as sensors, actuators, I/O modules, and control cabinet wiring.

The straight inline structure allows direct axial cable routing and easy installation in standard enclosures. The 12-pin male interface with A-CODE keying effectively prevents mis-mating. Brass gold-plated contacts combined with screw clamp terminals allow reliable wiring on-site without special crimping tools, significantly reducing installation and maintenance costs.

The connector features a robust nickel-plated metal housing with a die-cast zinc clamp body, providing excellent EMI shielding and mechanical strength. 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	H1212MV-0
Type	Male / Straight
Pin Count	12 Pin
Coding	A-CODE
Connection method	Solder connection
Cable Gland	4-8 mm
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	$\leq 5 \text{ m}\Omega$
Insulation Resistance	$\geq 100 \text{ M}\Omega$
Connection method	Solder connection (Field Wirable)
Cable Outlet Diameter	4-8 mm
Protection Class	IP67
Operating Temperature	-25 ~ +85
Pollution Degree	3
Mechanical Life	>100 Mating Cycles

Housing Material	Nickel-plated Metal (Zinc Alloy Die-cast)
Coupling Nut Material	Zinc Alloy, Nickel-plated
Contact Material	Brass, Gold-plated
Insert Material	PA, Black
Clamp Body Material	Die-cast Zinc, Nickel-plated
Seal Material	FPM / FKM

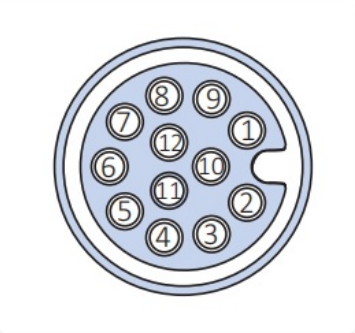
Note: The above are typical parameters. Please evaluate the actual application in combination with cable specifications, installation method, and environmental conditions.

Product Features

- 12-pin high-density male interface with A-CODE keying prevents mis-mating and improves system safety.
- Straight inline metal housing for direct cable routing and compact installation in standard panels.
- IP67 industrial protection blocks dust and water jets, suitable for outdoor, machine tool, and washdown environments.
- Field screw termination requires no crimping dies; a common screwdriver completes wiring for fast installation and maintenance.
- Metal housing and nickel-plated clamp body provide enhanced EMI shielding and mechanical durability.
- Gold-plated brass contacts deliver contact resistance as low as $\leq 5\text{ m}\Omega$, resisting oxidation and ensuring long-term stable conduction.
- Wide operating temperature range from -25 to $+85$ covers most industrial high/low temperature challenges.

Applications

- Industrial Automation: PLC, I/O modules, sensors, and actuators field wiring in control 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 H1212MV-0 support?

A: H1212MV-0 is a 12-pin male straight 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 cable gland suits cable outer diameters of 4-8 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 to $+85$.

Q: Does it support on-site manual wiring?

A: Yes. H1212MV-0 is field-wirable with screw terminals, requiring no special crimping tools. Wiring and maintenance can be completed quickly on-site.

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	H1212MV-0
Product Name (CN)	M12
Product Name (EN)	M12 Male Field Wirable Assembly, Straight
Key Specifications	12-pin / A-CODE / 4-8 mm / IP67 / Straight

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

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