



M12 Female Field Wirable Connector with IP67 Protection, Screw Connection, and A-CODE Keying

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: H1205F-11
- Minimum Order Quantity: 10 pieces
- Price: Negotiable
- Packaging Details: Paper box packing
- Delivery Time: 5-8 working days
- Payment Terms: T/T,D/P
- Supply Ability: 100000 pieces per month

KRONZ



Product Specification

- Ordering Model: H1205F-11
- Type: Female / Straight
- Pin Count: 5 Pin
- Termination: Screw Connection
- Cable Gland: PG11 (7-9 Mm)
- Rated Current: 4 A
- Rated Voltage: 60 V
- Protection Class: IP67
- Highlight: **IP67 Protection M12 Female Connector, Screw Connection Field Wirable Connector, A-CODE Keying Industrial Connector**

Product Description

M12 Female Field Wirable Assembly, Straight | Kronz

H1205F-11 is a field-wirable M12 female straight connector designed for industrial automation and fieldbus applications, including sensors, actuators, I/O modules, and control cabinet wiring.

The straight outlet structure enables vertical installation in confined spaces. The 12-pin female 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 housing body is made of high-strength PA/PBT engineering plastic, the coupling nut is zinc-alloy nickel-plated, and seals are made of FPM/FKM material. The overall design achieves IP67 protection and remains stable 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	H1205F-11
Type	Female / Straight
Pin Count	5 Pin
Coding	A-CODE
Connection method	Solder connection
Cable Gland	PG11 (7-9 mm)
Rated Current	4 A
Rated Voltage	60 V
Protection Class	IP67
Operating Temperature	-25 ~ +85

Technical Parameters

Parameter	Value
Standard	IEC 61076-2-101
Pin Count	5 Pin
Coding	A-CODE
Rated Current	4 A
Rated Voltage	60 V
Contact Resistance	≤ 5 mΩ
Insulation Resistance	≥ 100 MΩ
Connection method	Solder connection (Field Wirable)
Cable Outlet Diameter	7-9 mm (PG11)
Protection Class	IP67
Operating Temperature	-25 ~ +85
Pollution Degree	3
Mechanical Life	>100 Mating Cycles
Coupling Nut Material	Zinc Alloy, Nickel-plated
Contact Material	Brass, Gold-plated

Insert Material	PA, Black
Clamp Body Material	PBT/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.
- 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.
- PG11 cable gland fits 7-9 mm outer diameter cables and provides reliable strain relief and sealing.
- 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

H1205F-11 is suitable for a variety of industrial scenarios requiring reliable field connection of sensors and actuators to control systems.

- Industrial Automation: PLC, I/O modules, sensors, and actuators field wiring.
- 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 H1205F-11 support?

A: H1205F-11 is a 5w-pin female straight field-wirable connector with A-CODE keying, rated at 4 A / 60 V, suitable for 12-core shielded or unshielded industrial cables.

Q: What cable diameter fits the PG11 cable gland?

A: The PG11 cable gland suits cable outer diameters of 7-9 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. H1205F-11 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	H1205F-11
Product Name (CN)	M12
Product Name (EN)	M12 Female Field Wirable Assembly, Straight
Key Specifications	5-pin / A-CODE / PG11 / IP67

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

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