



M12 Female Field Wirable Connector with 90-degree Angled Design, IP67 Protection, and Screw Termination

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: KRONZ
- Certification: CE
- Model Number: H1205FA-7/L
- Minimum Order Quantity: 10 pieces
- Price: Negotiable
- Packaging Details: Paper box packing
- Delivery Time: 5-8 working days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 100000 pieces per month



Product Specification

- Standard: IEC 61076-2-101
- Connecting Nut Material: Alloy, Copper-zinc, Nickel-plated
- Operating Temperature: -25~+85
- Mechanical Life Cycle: >100 Mating Cycles
- Protection Rating: IP67
- Sealing Material: FPM/FKM

Product Description

M12 Female Field Wirable Assembly Connector, Angled, A-Code & L-Code, Screw Termination

Product Overview

The KRONZ M12 Female Field Wirable Assembly Connector features a space-saving 90-degree angled design. This connector is available in two coding types: A-Code for sensor and actuator signal applications, and L-Code for PROFINET power supply applications.

The angled housing solves tight space challenges. Installers complete connections without special tools. The L-shaped form factor fits perfectly in compact control cabinets and machinery enclosures.

Key Features

- 90-degree angled body for space-constrained installations
- Available in A-Code (signal) and L-Code (power supply) configurations
- A-Code polarization per IEC 61076-2-101 (sensor/actuator)
- L-Code polarization for PROFINET power supply applications (63VDC)
- Field-wirable design for on-site assembly and repair
- Screw termination for secure wiring
- IP67 protection against dust and temporary water immersion
- Gold-plated brass contacts for reliable electrical performance
- Multiple pin configurations: 3, 4, 5, 8, and 12 positions (A-Code); 5 positions (L-Code)
- Alloy nut with nickel plating and knurled grip
- FPM/FKM seals for chemical resistance
- Operating temperature range: -25°C to +85°C
- Mechanical life exceeds 100 mating cycles
- Cable outlet options: PG7 (4-6mm) and PG9 (6-8mm)

Product Models

A-Code Models

Model	Pins	Rated Current	Rated Voltage	Cable Outlet
H1203FA-7	3	4A	250V	4-6mm (PG7)
H1203FA-9	3	4A	250V	6-8mm (PG9)
H1204FA-7	4	4A	250V	4-6mm (PG7)
H1204FA-9	4	4A	250V	6-8mm (PG9)
H1208FA-7	8	2A	30V	4-6mm (PG7)
H1208FA-9	8	2A	30V	6-8mm (PG9)
H1212FA-7	12	1.5A	30V	4-6mm (PG7)
H1212FA-9	12	1.5A	30V	6-8mm (PG9)

L-Code Models

Model	Pins	Rated Current	Rated Voltage	Cable Outlet
H1205FA-7/L	5	4A	60V	4-6mm (PG7)
H1205FA-9/L	5	4A	60V	6-8mm (PG9)

Technical Specifications

Specification	A-Code Value	L-Code Value
Series	M12 A-CODE Field Connector	M12 L-CODE Field Connector
Standard	IEC 61076-2-101	IEC 61076-2-101
Coding	A-Code	L-Code
Angle	90° (Angled / L-shaped)	90° (Angled / L-shaped)
Connection Method	Screw Termination	Screw Termination
Insulator Resistance	≥ 100MΩ	≥ 100MΩ
Contact Resistance	≤ 5mΩ	≤ 5mΩ
Pollution Degree	3	3
Rated Current	1.5A - 4A (varies by pin count)	4A
Rated Voltage	30V - 250V (varies by pin count)	60V
Operating Temperature	-25°C to +85°C	-25°C to +85°C
Mechanical Life	> 100 mating cycles	> 100 mating cycles
Protection Degree	IP67	IP67
Contact Nut Material	Brass, Nickel-Plated	Brass, Nickel-Plated
Contact Material	Brass, Gold-Plated	Brass, Gold-Plated
Contact Carrier	Plastic, PA, Black	Plastic, PA, Black
Clamping Body	Plastic, PBT/PA, Black	Plastic, PBT/PA, Black
Seal Material	FPM/FKM	FPM/FKM

Pin Configuration

A-Code Configurations

3-Pin (H1203FA-7/9)

Pin	Color Code	Function
1	BN (Brown)	DC+
3	BU (Blue)	DC-
4	BK (Black)	Signal/Ground

4-Pin (H1204FA-7/9)

Pin	Color Code	Function
1	BN (Brown)	DC+
2	WH (White)	Signal 1
3	BU (Blue)	DC-
4	BK (Black)	Signal 2

5-Pin (H1205FA-7/9)

Pin	Color Code	Function
1	BN (Brown)	DC+
2	WH (White)	Signal 1
3	BU (Blue)	DC-

Pin	Color Code	Function
4	BK (Black)	Signal 2
5	GY (Grey)	Signal 3 / Earth

8-Pin (H1208FA-7/9)

Pin	Color Code	Function
1	BN (Brown)	Signal 1
2	WH (White)	Signal 2
3	BU (Blue)	Signal 3
4	BK (Black)	Signal 4
5	GY (Grey)	Signal 5
6	PK (Pink)	Signal 6
7	YE (Yellow)	Signal 7
8	RD (Red)	Signal 8

12-Pin (H1212FA-7/9)

Pin	Color Code	Pin	Color Code
1	BN (Brown)	7	YE (Yellow)
2	WH (White)	8	GY (Grey)
3	BU (Blue)	9	PK (Pink)
4	BK (Black)	10	RD (Red)
5	GY (Grey)	11	RD (Red)
6	PK (Pink)	12	RD (Red)

L-Code Configuration

5-Pin (H1205FA-7/L, H1205FA-9/L) - PROFINET Power Supply

Pin	Color Code	Function
1	BN (Brown)	L+ (24VDC)
2	WH (White)	DC-
3	BU (Blue)	M (0V)
4	BK (Black)	L- (24VDC)
5	GY (Grey)	Functional Earth

Application Scenarios

A-Code Applications

- **Industrial Sensor Connections** - 3/4/5-pin sensors in automation systems
- **Actuator Wiring** - Solenoid valves and motor drives
- **Signal Transmission** - Analog and digital signal paths
- **Encoder and Encoder Feedback** - Position sensing systems
- **Field Device Networks** - Distributed I/O connections
- **Process Instrumentation** - Measurement and control equipment
- **Machine Vision Systems** - Camera and lighting power

L-Code Applications

- **PROFINET Power Supply Networks** - Dedicated power distribution for PROFINET automation systems
- **Industrial Automation Power Distribution** - 24VDC power feeds in control cabinets
- **Sensor and Actuator Power Feeds** - Reliable power connections for field devices
- **Machine Building Applications** - Compact power routing in compact machinery
- **Control Cabinet Wiring** - Space-efficient power distribution solutions
- **Process Automation** - Stable power supply for distributed I/O modules
- **Robotics Power Systems** - Power distribution in robotic control systems

Universal Applications

- **Field Installation and Maintenance** - Easy on-site assembly and repair
- **Space-Constrained Installations** - Angled design fits tight enclosures
- **Harsh Industrial Environments** - IP67 rated for demanding conditions

About KRONZ

KRONZ (Guangzhou) Electronics Co., Ltd. is a professional manufacturer specializing in industrial connectors and sensor accessories. Our products serve automation, robotics, and instrumentation industries worldwide.

ABOUT US

KRONZ is a manufacturing enterprise located in Zengcheng District, Guangzhou City. We focus on providing customers with high-efficiency industrial automation solutions and related industrial products. After many years of innovation and development, KRONZ has complete product processing equipment and a professional team who are proficient in various automation technologies.

In order to improve the quality of products and production efficiency, we continue to introduce advanced production equipment and technology, strengthen investment in research and development. At present, our main products include Industrial Connectors, Inductive Sensors, Capacitive Sensors, Photoelectric Sensors, Ultrasonic Sensors, Industrial power supplies, Industrial fieldbus, RFID recognition systems, Industrial Ethernet Switches

We not only produce the orders of standard products, but also have ability to make customize production based on customer design drawings or samples.

Adhering to the principle of mutual benefit, we provide our customers with competitive prices, and perfect after-sales service. KRONZ's products have been sold in multiple countries, have won the trust and praise of customers. KRONZ expect to collaborate with you.

OUR FACTORY



Logistics and Payment



1. Samples and small orders can be shipped with fast shipment method, by air and by express. Bulk order will ship by sea, by air, by train, by truck etc.
2. We also can send the goods to your agent warehouse.
3. If you need any more shipping method, please feel free to contact with us.



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