

Compact67

IO-Link Master Station



Product Features

- Up to IP67 protection rating;
- Adopt IO-Link v1.1 specification design;
- Master Station supports COM1, COM2 and COM3 three communication rates.
- Interface type Class-A or Class-B is optional.
- Can connect all kinds of IO-Link standard equipment and standard switching signals;
- LED status display, channel level protection and diagnosis;
- Can be used with the IO-Link valve island to facilitate information exchange with the controller.

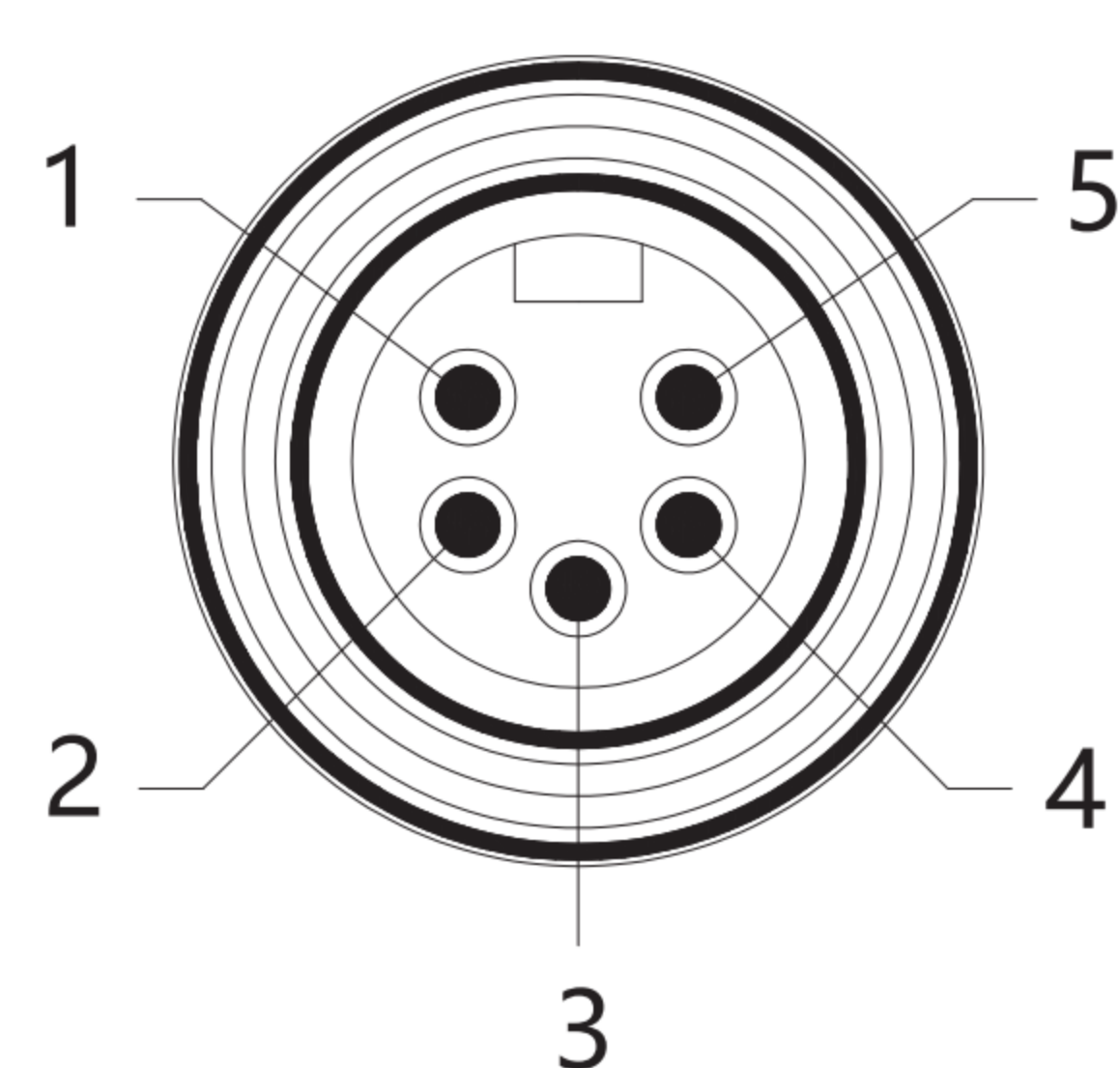
How to order?

IO-Link master station

Series	Protocol	Port Number	Port Type
ES	PN: PROFINET EC: EtherCAT EP: EtherNet/IP	8LK: 8 IO-Link ports	4A4B: 4*Class A+4*Class B 8A: 8*Class A

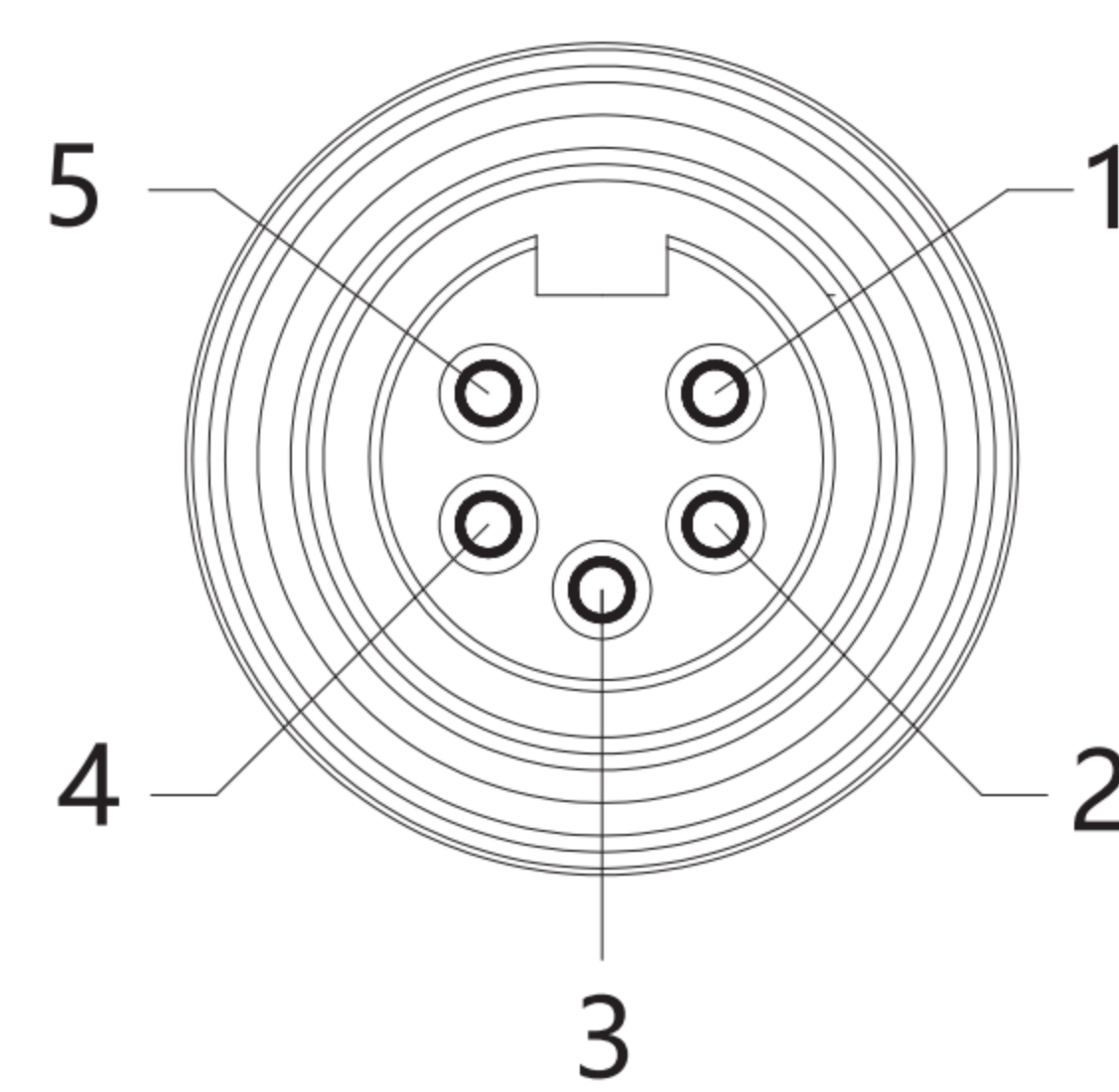
Order example: ES series, PROFINET protocol, port number is 8, port type is 8 ClassA, the ERP code is: ESPN-8LK-8A.

Power input interface(7/8" pin end, Male)

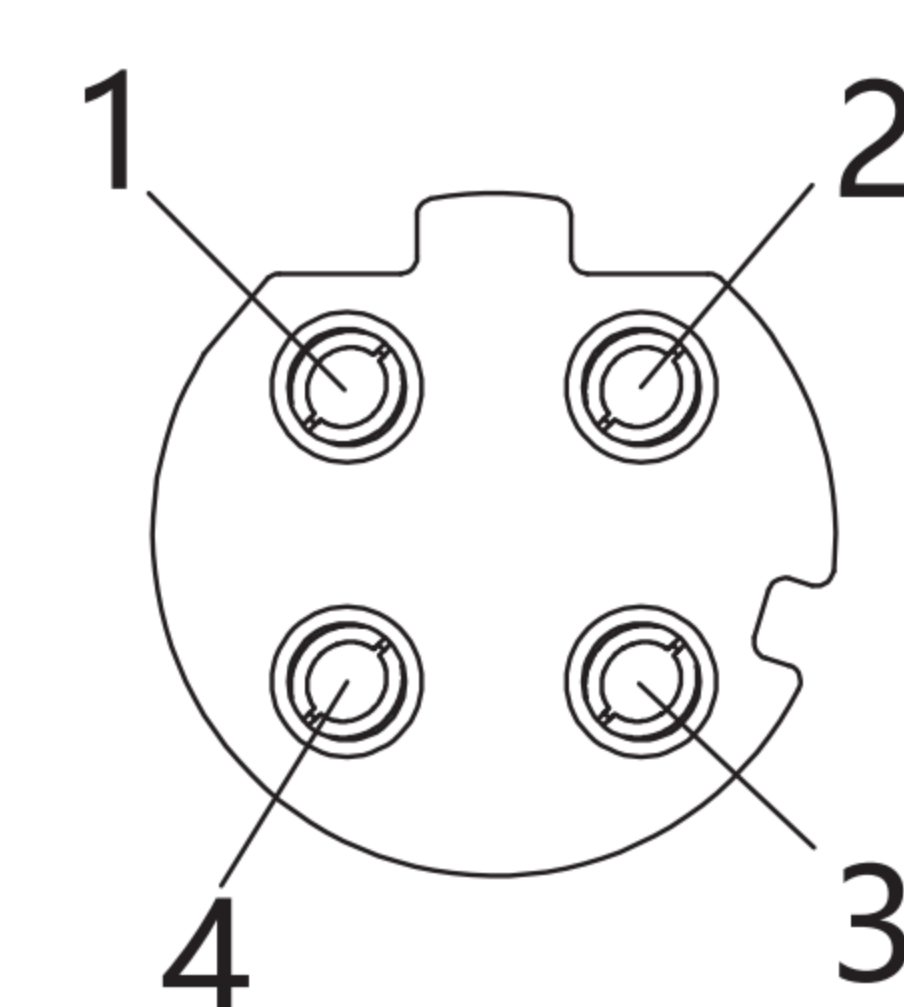


Pin	Interface Function	Power supply voltage
1	Auxiliary power supply Ua-	0V
2	System and signal load power supply Us-	0V
3	Protected area PE	
4	System and signal load power supply Us+	24V
5	Auxiliary power supply Ua+	24V

Power output interface(7/8" port, Female)

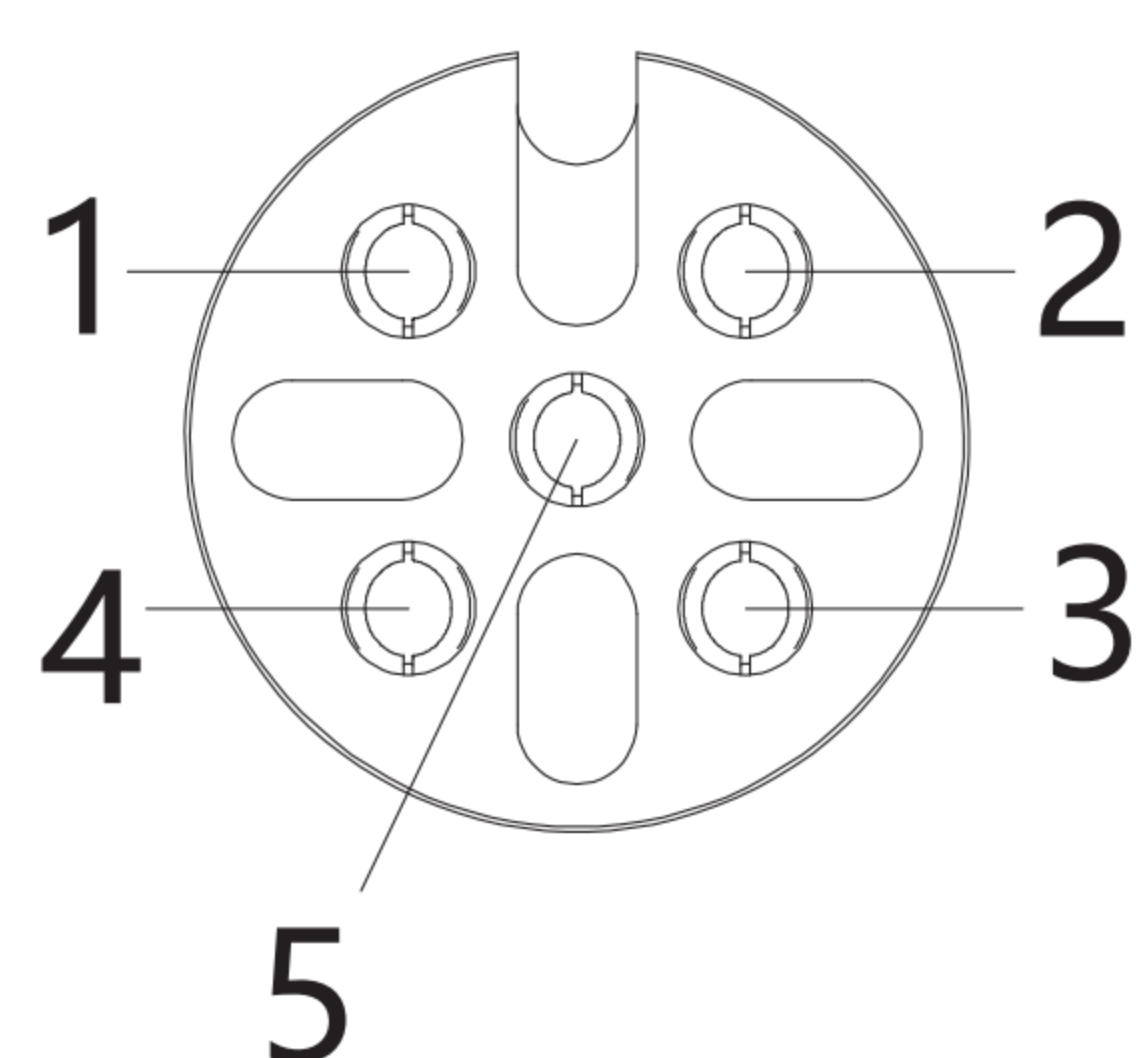


Bus interface (2XM12, D code, Female)



Pin	Interface function	Cable color
1	Transmitter TD+	Yellow
2	The receiving end RD+	White
3	Transmitter TD-	Orange
4	Receiving end RD-	Blue

IO-Link interface (8XM12, A code, Female)



Pin	Class-A type	Class-B type
1	Power supply 24V+	Power supply 24V+
2	Signal input/output B	Auxiliary power supply P24V+
3	Power supply GND	Power supply GND
4	IO-Link/ Input/output A	IO-Link/ Input/output A
5	/	Auxiliary power supply N24

Compact67 IO-Link Master Station



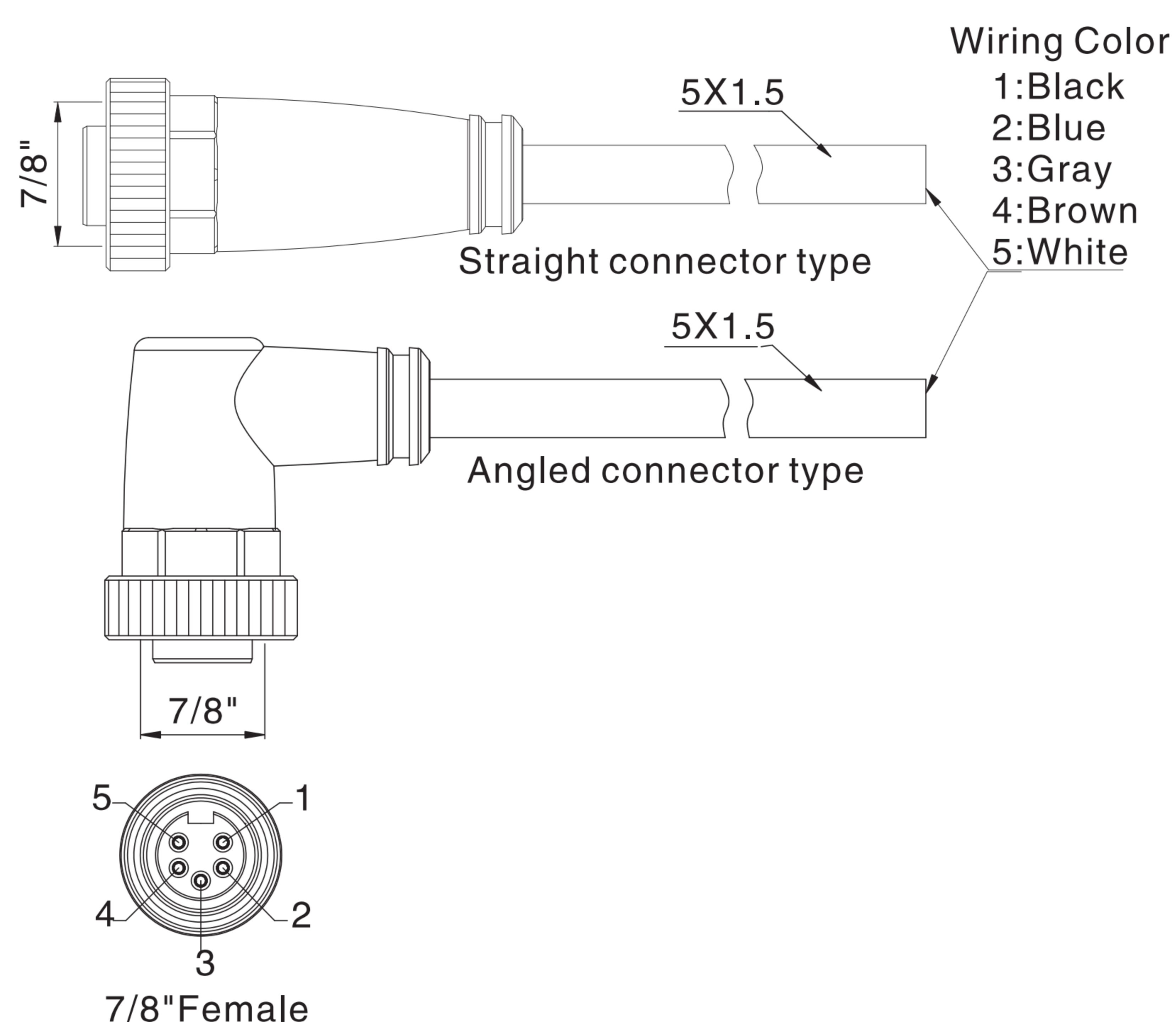
Specifications

Model number	ESPN-8LK-4A4B	ESPN-8LK-8A	ESEC-8LK-4A4B	ESEC-8LK-8A	ESEP-8LK-4A4B	ESEP-8LK-8A
Communication protocol	PROFINET		EtherCAT		EtherNet/IP	
Baud rate	100Mbps					
Bus communication	2XM12D-code4pin, hole					
Operating voltage	24VDC(18~30VDC)					
System consumption current	Below 200mA					
System and input signal power supply	Us, no more than 8A					
Auxiliary power supply	Ua, not more than 8A					
Mains supply	2 x 7/8" 5pin, pin end + hole end					
IO-Link signal port	8XM12 A-code5pin, holes end					
Number of IO-Link ports	8					
IO-Link Port type	4*ClassA+4*ClassB	8*ClassA	4*ClassA+4*ClassB	8*ClassA	4*ClassA+4*ClassB	8*ClassA
IO-Link version	IO-Link V 1.1					
IO-Link Communication rate	COM1 (4.8kbps) 、 COM2 (38.4kbps) 、 COM3(230.4kbps)					
IO-Link Current (Pin1&Pin3)	The maximum value of the IO-Link interface is 1.6A, and the maximum value of the common signal interface is 200mA					
IO-Link Auxiliary Current (Pin2&Pin5)	Maximum 2A per channel					
Input signal type	PNP sensor, stroke switch, dry contact, etc. (SIO mode)					
Input filter delay	1.6ms					
Output channel number	Max 12	Max 16	Max 12	Max 16	Max 12	Max 16
Output current	Maximum 2A per channel					
Output signal type	Indicator light, micro solenoid valve (SIO mode)					
Output switching frequency	Resistive load 100Hz, inductive load 5Hz					
Equipment diagnosis	Communication message feedback, undervoltage alarm, short circuit and overload protection					
Additional function	MRP		Communication break output hold		DHCP, BOOTP	
Class of protection	IP67					
Temperature range	Operating temperature -25~70℃, storage temperature -40~85℃					

Cable ordering code

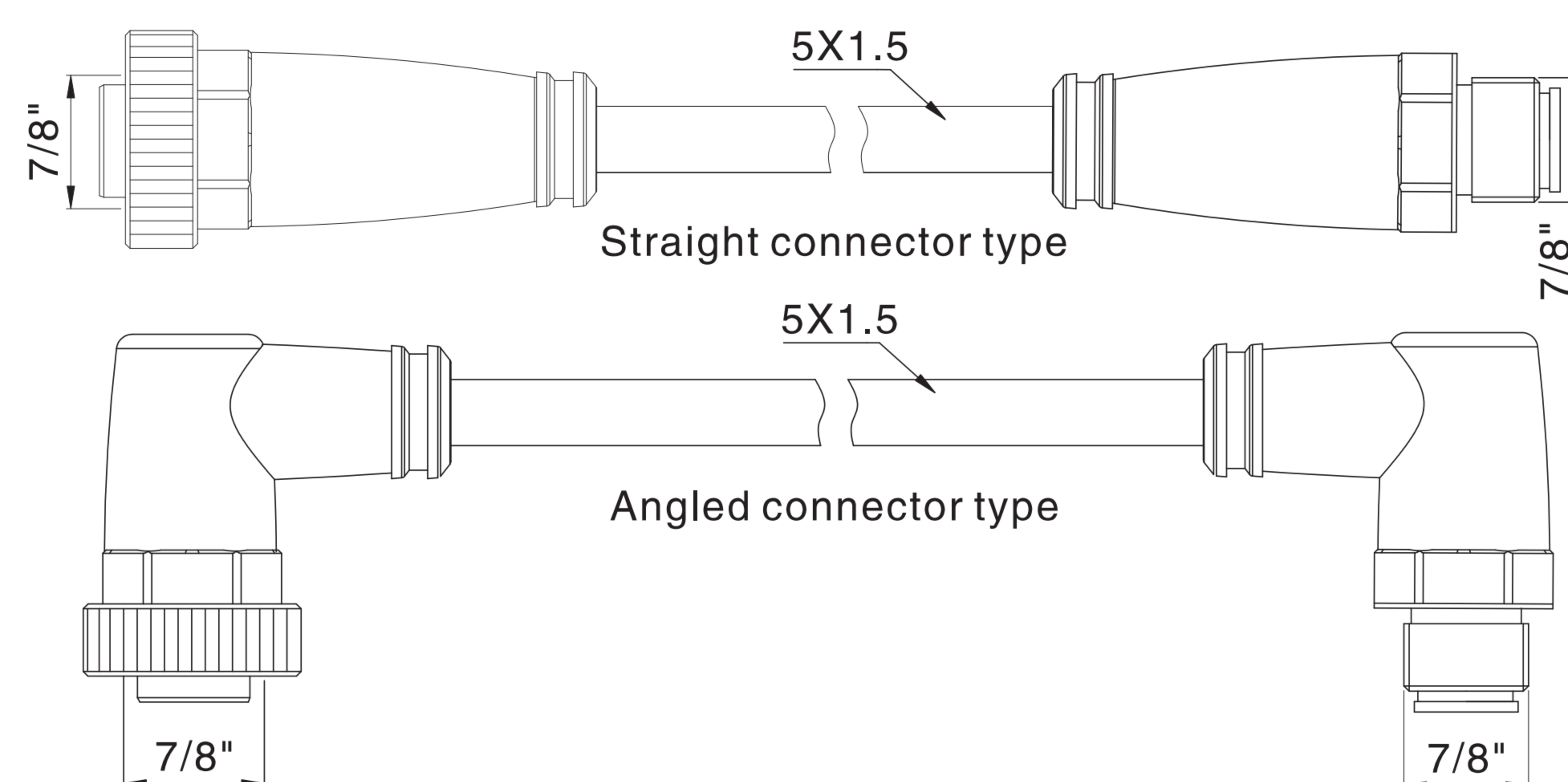
7/8" single-ended cable

ESLK	G78	Connection type	Cable length
IO-Link Master Station	R: Straight connector type RL: Angled connector type		2M: The cable length is 2M 5M: The cable length is 5M (Other length could be customized)



7/8" 双头电缆

ESLK	G78G78	Connection type	Cable length
IO-Link Master Station	R: Straight connector type RL: Angled connector type		2M: The cable length is 2M 5M: The cable length is 5M (Other length could be customized)



☉ Cable ordering code

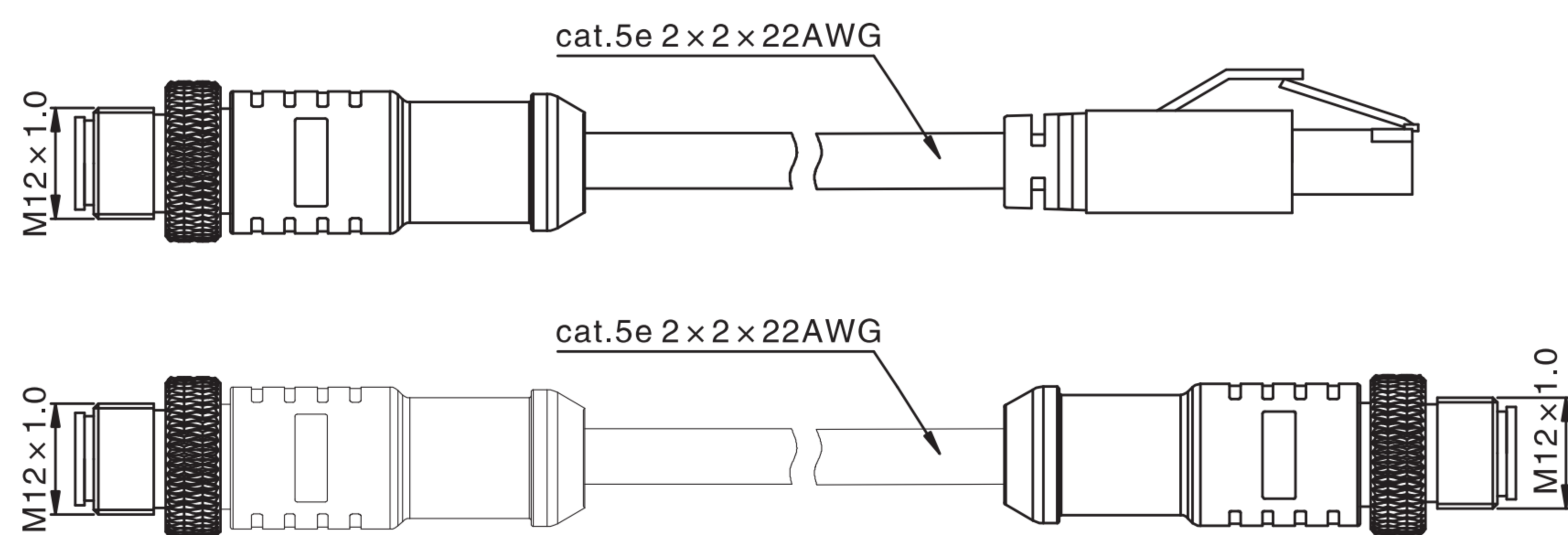
Bus cable

ESV-EN — □ — □

Ethernet fieldbus cable

M12RJ: M12 Male connectors ↔ RJ45
M12M12: M12 Male connectors ↔ M12 male

2M: The cable length is 2M
5M: The cable length is 5M
(Other length could be customized)

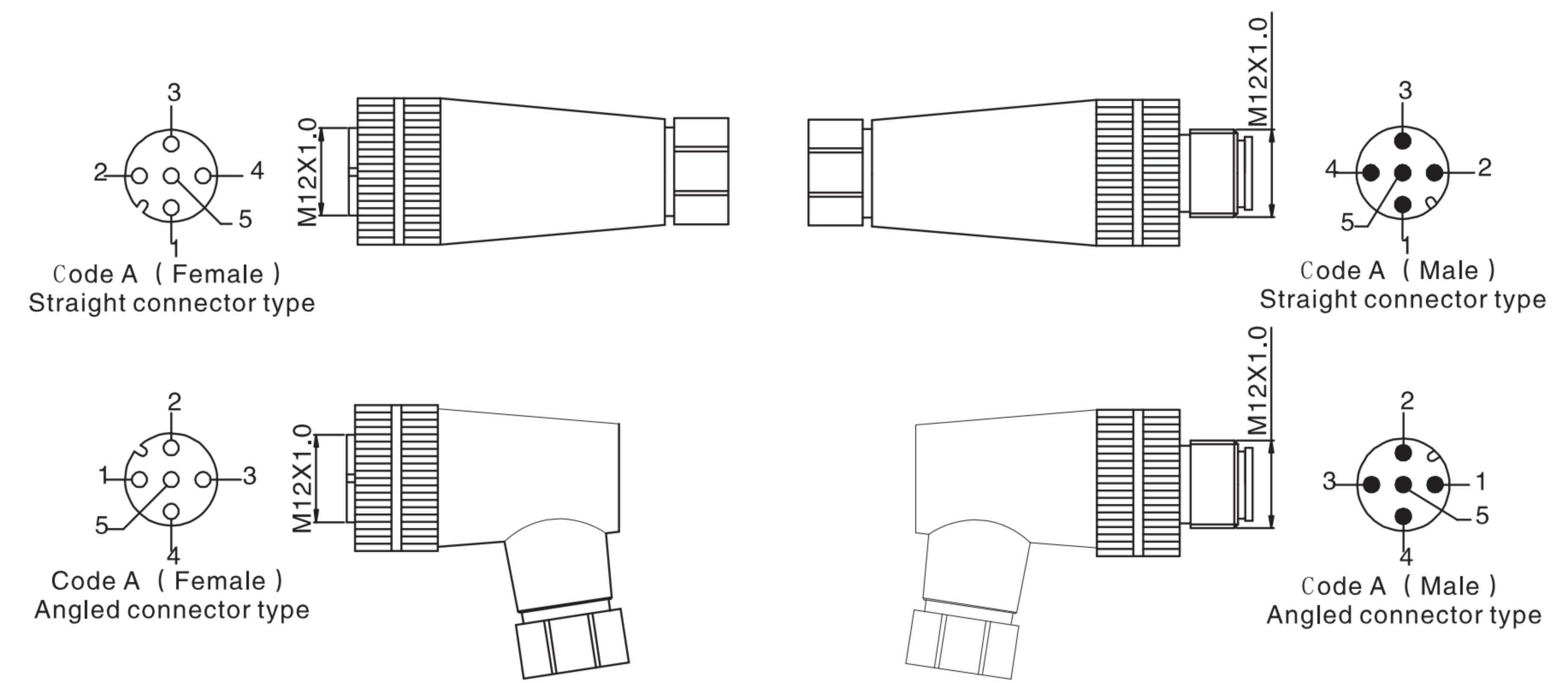


5-pin connector (M12-A code)

M125 **Connection type**

5-pin connector (M12-A code)

R: Rotary female, Straight connector type
RL: Rotary female, Angled connector type
RF: Rotary male, Straight connector type
RFL: Rotary male, Angled connector type

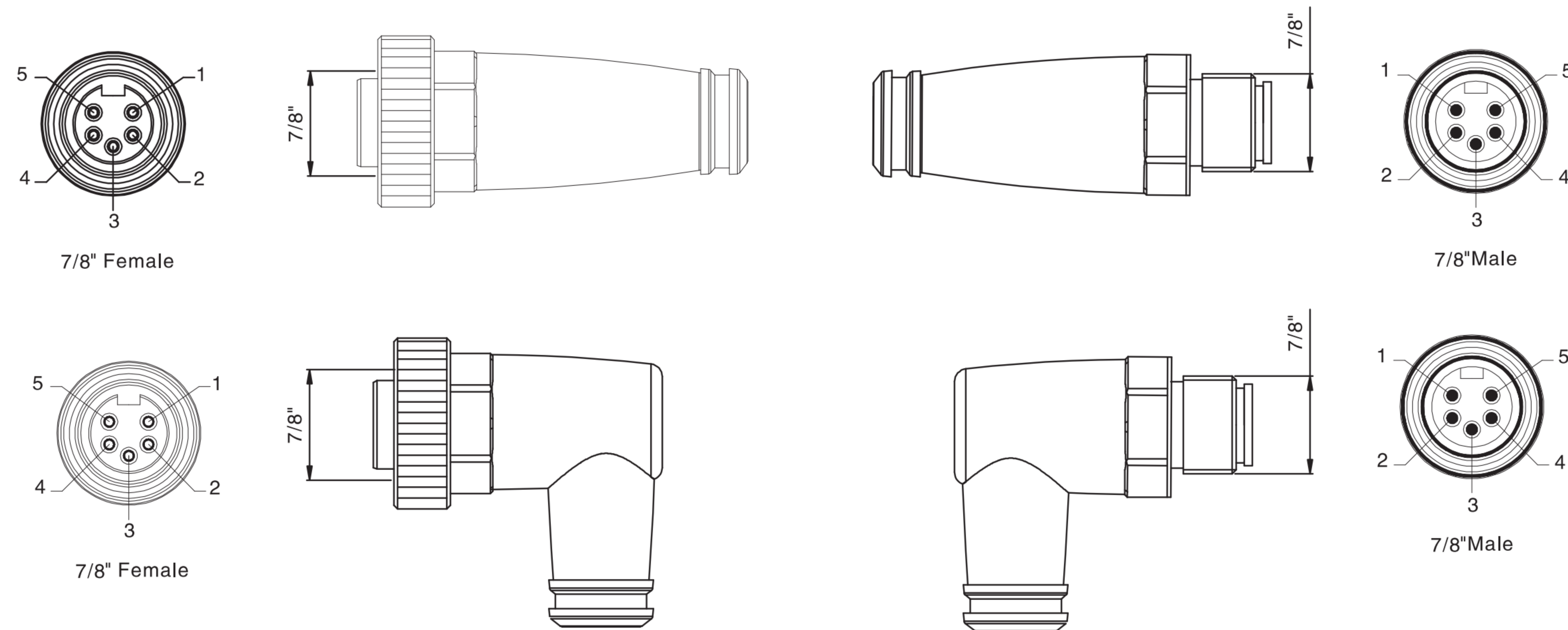


5-pin connector (7/8")

G78 **Connection type**

5-pin connector (7/8")

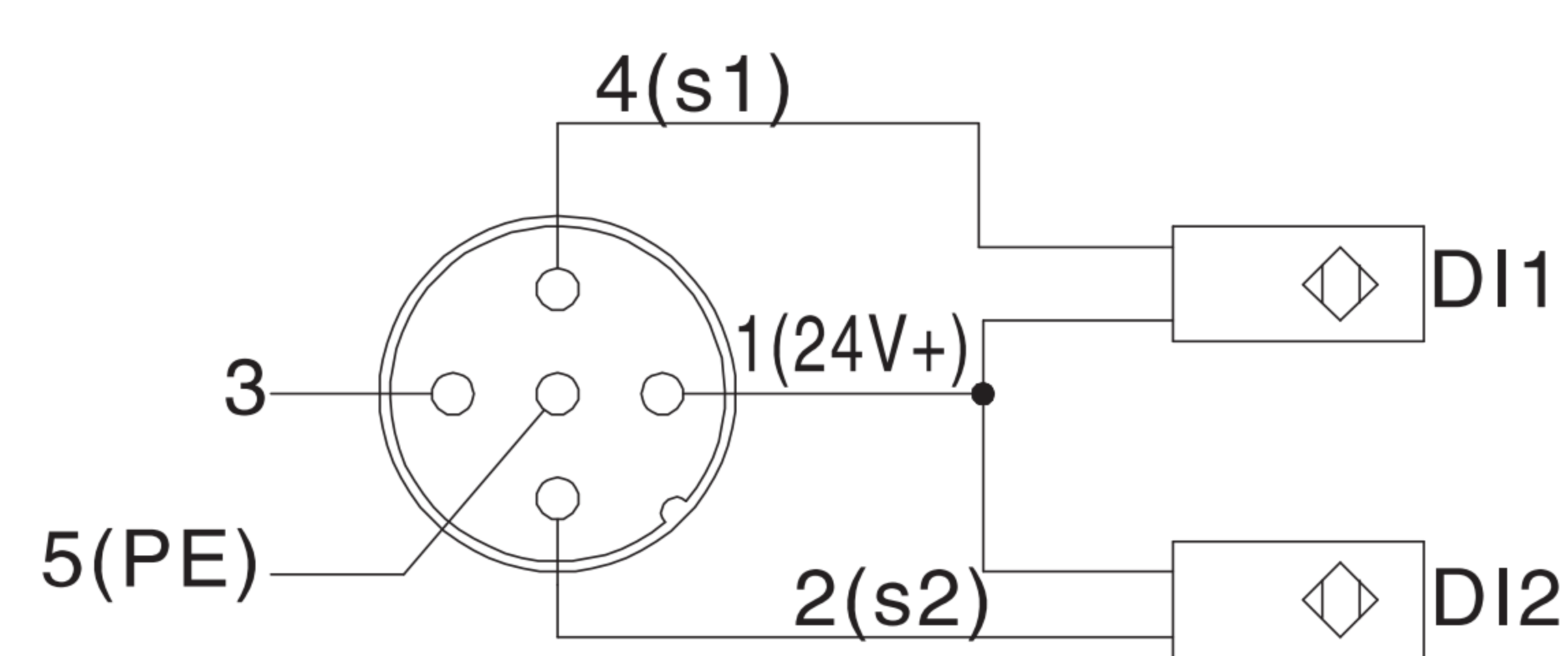
R: Rotary female, Straight connector type
RL: Rotary female, Angled connector type
RF: Rotary male, Straight connector type
RFL: Rotary male, Angled connector type



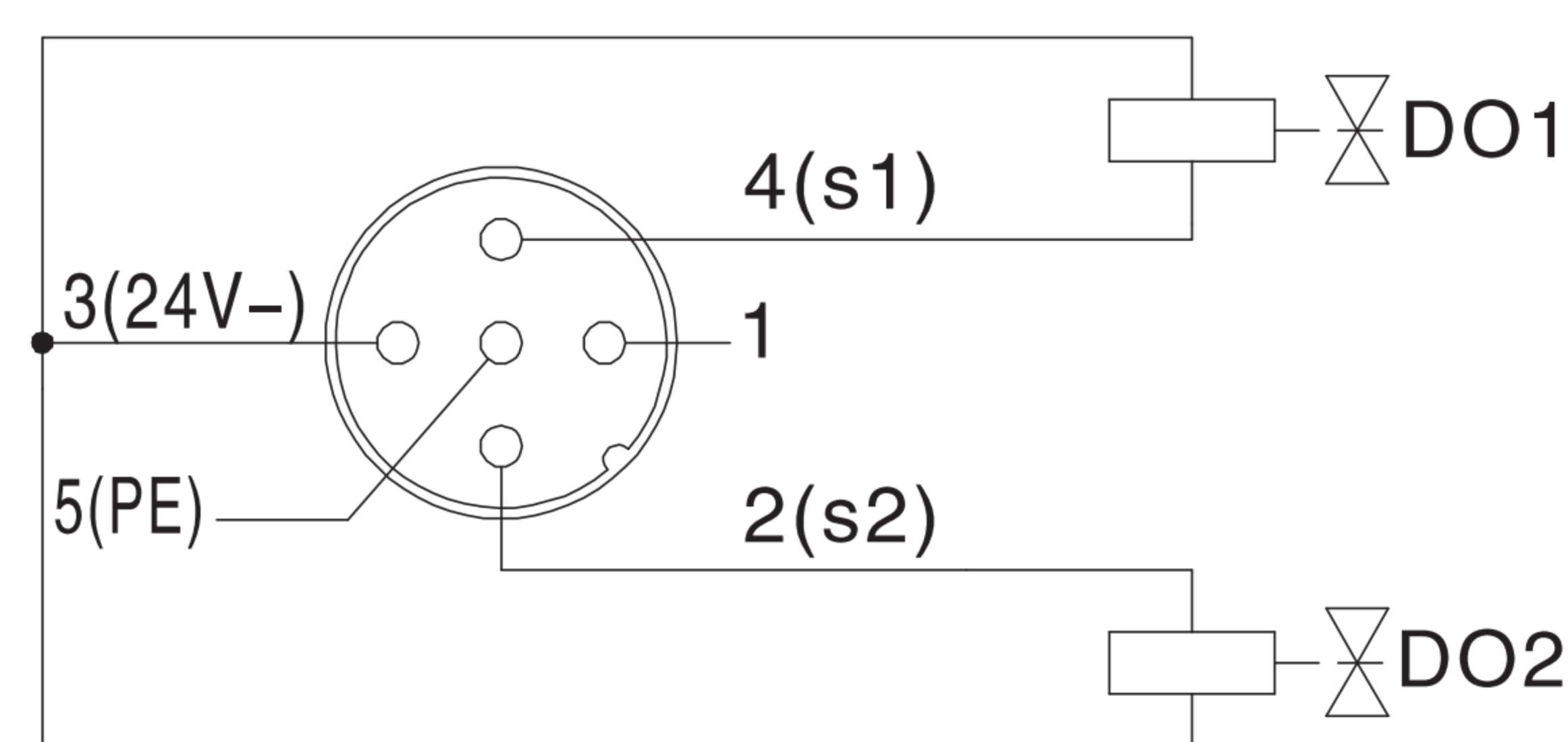
☉ IO wiring diagram

Note: The master station port is used for common IO points

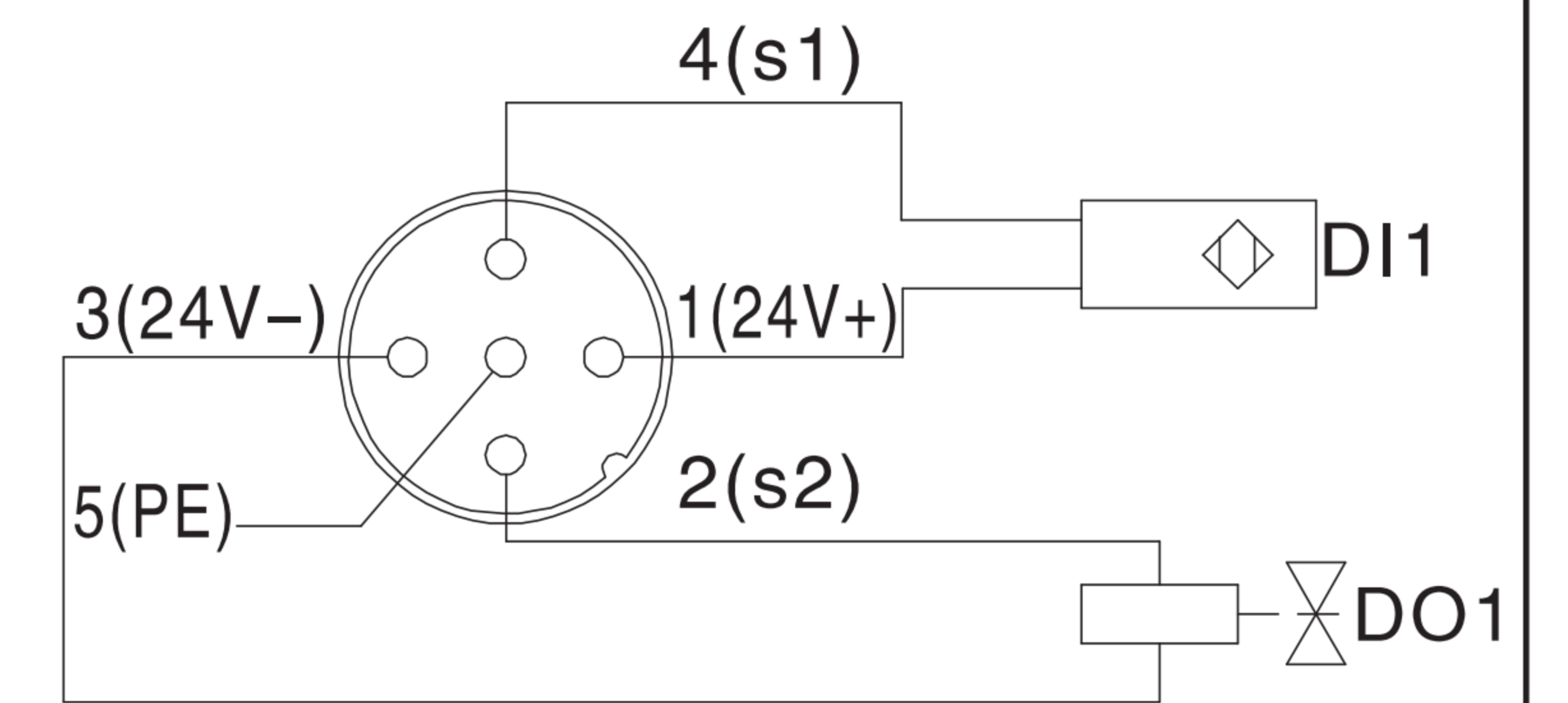
PNP dual input



PNP dual output



PNP type input and output



☉ Precautions for Use

1. Do not disassemble, modify (including replacing the printed circuit board) or repair without authorization, which may cause injury or failure.
2. Do not exceed the specification parameters (limit value) operation of the product, do not use flammable or harmful liquids, may lead to fire, failure or product damage, please verify the manual before use.
3. Please connect according to the basic electrical specifications, for personal and equipment safety, we recommend to disconnect the power supply when wiring operation.
4. Connecting the module to the protective ground can release the interference current underground and ensure the safety and E·MC compatibility of the module.
5. Ensure a low impedance connection to the protective grounding.

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◎ Main Dimension

