

# Field Wireable Connectors

## Sensor and Signal

### M12 A-coded Connectors

#### Features

- IP67 rated once properly assembled
- Various cable gauges and diameters accepted
- Plastic and metal housings with good resistance against chemicals and oils
- Various terminal connections: screw, IDC, and push-lock spring clamp



7000-12701-0000000



7000-12821-0000000

### M12 A-coded Connectors Selector Table

Part Number	Price	Number of Wires, Pins	Connection Type	Conductor Size	Housing Material	Terminal Connection	Outside Cable Ø	Drawing Link
Unshielded								
<a href="#">7000-12701-0000000</a>	\$07hg:	4-Wire, 5 Pin	Axial male with male threads	18AWG [0.75 mm²] max	Polyamide (PA)	Screw	4–6mm [0.15–0.23 in]	<a href="#">PDF</a>
<a href="#">7000-12901-0000000</a>	\$-07hl:		Axial female with female threads					<a href="#">PDF</a>
<a href="#">7000-12741-0000000</a>	\$-07hi:		Axial male with male threads				6–8mm [0.23–0.31 in]	<a href="#">PDF</a>
<a href="#">7000-12941-0000000</a>	\$07ho:		Axial female with female threads					<a href="#">PDF</a>
<a href="#">7000-12821-0000000</a>	\$07hk:		90-degree male with male threads				4–6mm [0.15–0.23 in]	<a href="#">PDF</a>
<a href="#">7000-12981-0000000</a>	\$07hq:		90-degree female with female threads					<a href="#">PDF</a>
<a href="#">7000-12481-0000000</a>	\$07ha:		Axial male with male threads	24–20 AWG [0.25–0.5 mm²]	Thermoplastic polyester elastomer (TPE- E)	Insulation displacement (IDC)	4–5.1 mm [0.157–0.20 in]	<a href="#">PDF</a>
<a href="#">7000-12601-0000000</a>	\$07hd:		Axial female with female threads					<a href="#">PDF</a>
<a href="#">7000-12491-0000000</a>	\$07hb:		Axial male with male threads	26–22 AWG [0.14–0.34 mm²]	Polyamide (PA)		2.9–5.1 mm [0.114–0.20 in]	<a href="#">PDF</a>
<a href="#">7000-12611-0000000</a>	\$07he:		Axial female with female threads					<a href="#">PDF</a>
<a href="#">7000-12561-0000000</a>	\$07hc:		90-degree male with male threads	24–20 AWG [0.25–0.5 mm²]	Thermoplastic polyester elastomer (TPE- E)		4–5.1 mm [0.157–0.20 in]	<a href="#">PDF</a>
<a href="#">7000-12681-0000000</a>	\$;07hf:		90-degree female with female threads					<a href="#">PDF</a>
<a href="#">7000-12721-0000000</a>	\$07hh:	5-Wire, 5-Pin	Axial male with male threads	18AWG [0.75 mm²] max	Polyamide (PA)	Screw	4–6mm [0.15–0.23 in]	<a href="#">PDF</a>
<a href="#">7000-12921-0000000</a>	\$07hn:		Axial female with female threads					<a href="#">PDF</a>
<a href="#">7000-12761-0000000</a>	\$-07hj:		Axial male with male threads				6–8mm [0.23–0.31 in]	<a href="#">PDF</a>
<a href="#">7000-12961-0000000</a>	\$07hp:		Axial female with female threads					<a href="#">PDF</a>
<a href="#">7000-13041-0000000</a>	\$-4jq:		90-degree female with female threads	26–18AWG [0.14–0.75 mm²]	Polyamide (PA)	Push-lock spring clamp	4–8mm [0.15–0.31 in]	<a href="#">PDF</a>
<a href="#">7000-13901-0000000</a>	\$6b0?:		Axial male with male threads					<a href="#">PDF</a>
<a href="#">7000-13911-0000000</a>	\$;6b0,::		90-degree male with male threads					<a href="#">PDF</a>
<a href="#">7000-13941-0000000</a>	\$6b10:		Axial female with female threads					<a href="#">PDF</a>
<a href="#">7000-13951-0000000</a>	\$6b11:		90-degree female with female threads					<a href="#">PDF</a>
<a href="#">7000-17301-0000000</a>	\$07hu:	8-Wire, 8-Pin	Axial male with male threads	20AWG [0.5 mm²] max	Polyurethane (PUR)	Screw	6–8mm [0.23–0.31 in]	<a href="#">PDF</a>
<a href="#">7000-17311-0000000</a>	\$07hv:		90-degree male with male threads					<a href="#">PDF</a>
<a href="#">7000-17321-0000000</a>	\$07hx:		Axial female with female threads					<a href="#">PDF</a>
<a href="#">7000-17331-0000000</a>	\$07hy:		90-degree female with female threads					<a href="#">PDF</a>
Shielded								
<a href="#">7000-13321-0000000</a>	\$07hs:	5-Wire, 5-Pin	Axial male with male threads	18AWG [0.75 mm²] max	Die-cast zinc nickel-plated	Screw	6–8mm [0.23–0.31 in]	<a href="#">PDF</a>
<a href="#">7000-13361-0000000</a>	\$;07ht:		90-degree male with male threads					<a href="#">PDF</a>
<a href="#">7000-17341-0000000</a>	\$07hz:	8-Wire, 8-Pin	Axial male with male threads	20AWG [0.5 mm²] max				<a href="#">PDF</a>

# Field Wireable Connectors

## Sensor and Signal

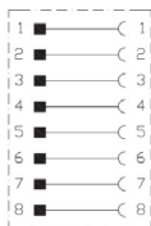
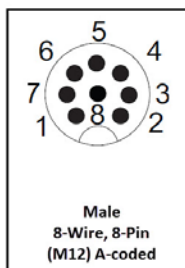
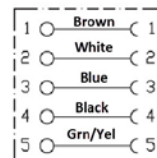
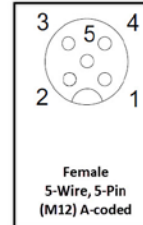
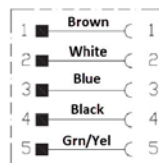
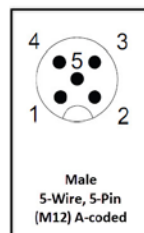
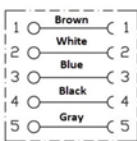
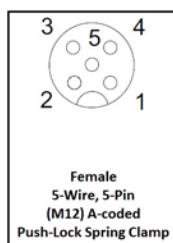
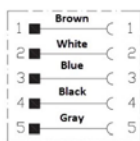
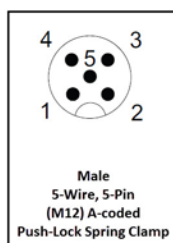
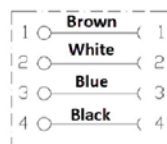
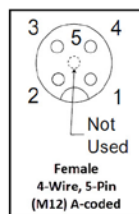
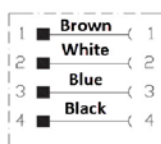
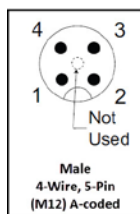
### Specifications

M12 A-coded Connectors Specifications								
Coding	A-coded							
Model	12491, 12611	12481,12601, 12561, 12681	12701, 12901, 12821, 12981	12721, 12921	13901, 13911, 13941, 13951	12741, 12941	12761, 12961, 13041, 13321, 13361	17301, 17311, 17321, 17331, 17341
Max Voltage	32 VAC/VDC		250 VAC/VDC	60 VAC/VDC	250 VAC/VDC	250 VAC/VDC	60 VAC/VDC	30 VAC/VDC
Max Current Per Contact	4A							2A
Temperature Range	-25 to 85°C [13 to 185°F]				-40 to 85°C [-40 to 185°F]			
Protection Degree	IP65, IP67		IP67		IP65, IP67	IP67		
Locking Material	Zinc die-cast, nickel-plated							
Weight	0.05 oz [1.42 g]	0.06 oz [1.7 g]	0.05 oz [1.42 g]		1oz [28.24 g]	0.06 oz [1.7 g]		
Approvals*	cURus							

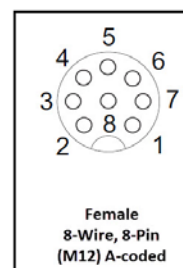
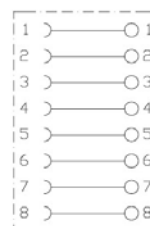
\*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

### Pin Assignments

LEGEND	
■	MALE PIN ON CONNECTOR
○	FEMALE PIN ON CONNECTOR
(	FIELD CONNECTION TERMINAL



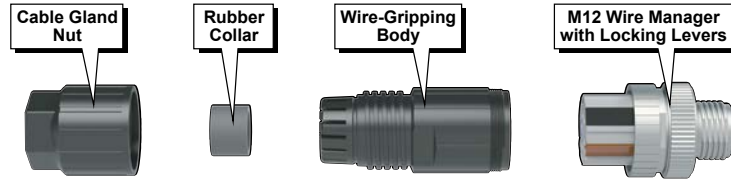
8-Wire, 8-Pin Color Code			
Based on Cables			
Pin	7000-17041-292xxxx	7000-17041-295xxxx	7000-17061-295xxxx
1	White	Brown	Brown
2	Brown	White	White
3	Green	Blue	Blue
4	Yellow	Black	Black
5	Gray	Gray	Gray
6	Pink	Pink	Pink
7	Blue	Violet	Violet
8	Red	Orange	Orange





# Field Wireable Connectors Sensor and Signal

## Assembly Instructions for M12 A-coded Push-lock Spring Clamp Connectors



- 1** Before stripping cable jacket, install cable gland nut, rubber collar, and wire-gripping body on cable.
- 2** Remove 24mm of outer jacket from cable and strip 7mm of insulation from individual wires.
- 3** Prepare the M12 wire manager using a small screwdriver or fingernail to pry open each locking lever.
- 4** Insert individual wires into the M12 wire manager.
- 5** Close the locking levers and complete the assembly of all components.
- 6** Hand-tighten or use 15mm wrench to secure wire-gripping body and M12 wire manager.
- 7** Hand-tighten or use 15mm wrench to secure cable gland nut and wire-gripping body.
- 8** Assembly complete.