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AMSONE[®]
Connectors, Cables & IO Systems





Amissiontech is located in Dongguan, a city in the south of China and covers an area of 2500 sqm including an office, R&D center, lab and assembly workshops. For more than 10 years, Amissiontech manufacturing industrial connectors, cable harnesses with UL/CE/ISO certifications offers high-quality and cost-effective solutions under AMSSONE[®] brand and has been a trusted partner for industrial connectivity.

Since then, Amissiontech and its sister companies, who focus on PCB manufacturing and Electronic Contract Manufacturing with MES (Manufacturing Execution System) for traceable quality control for mass production, joined forces forming a strategic alliance to consistently deliver high-performance solutions for an increasingly digital and data-driven world.

Combined with a professional management team for supply chain and resources integration, Amissiontech expands to play a role in the fields of industrial automation, infrastructure connectivity and cybersecurity by launching new products, network modules, within the category of IO systems.

From now on, Amissiontech aims to transform itself from a connector & cable company to a signal transmission solutions provider with a complete product portfolio including connectors, cables, networking products and assemblies. To drive business growth & innovation, we will continuously engineer and manufacture essential technology solutions and make sure all our customers pay reasonable prices and get qualified products and services.

For more information: www.amissiontech.com



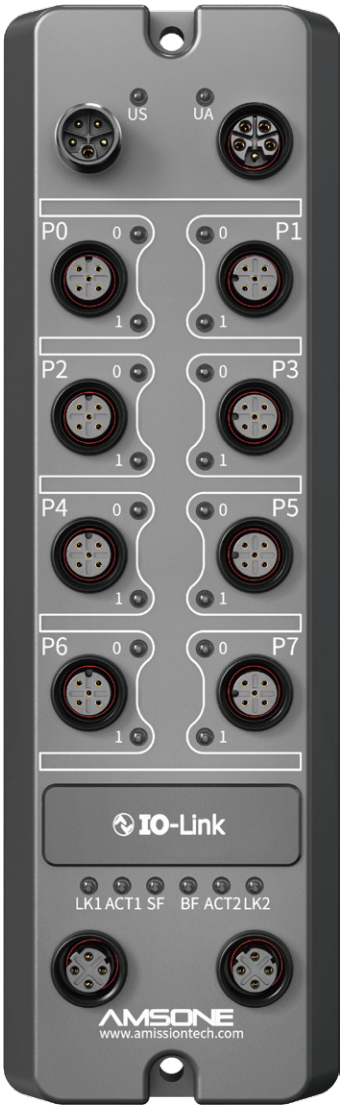
- 1 Application-focused design capabilities
- 2 Manufacturer guaranteed quality products
- 3 Solutions Provider
- 4 **ONE**-stop services for industrial connectors and cable assemblies
- 5 Flexible customization solutions for IO systems



Connectors

						Connection type					Category					Locking system				Certified		
Series	No.of contacts	Protection degree	Voltage	current	EMC	Solder	Dip Solder	SMT	Screw	Crimp	Pre-molded cable	Rear mount	Front mount	Flange mount	Field assembly	Screw	Bayonet	Snap-in	Push-Pull	UL / CE / RoHS / REACH		
AM08	3 , 4	IP67	60V	4A	✓	✓	✓	✓			✓	✓	✓		✓	M8*1				✓	✓	✓
	5	IP67	30V	3A	✓	✓	✓	✓			✓	✓	✓		✓					✓	✓	✓
	6 , 8	IP67	30V	2A	✓	✓	✓	✓			✓	✓	✓		✓					✓	✓	✓
AM09	2 , 3	IP67	125V	4A	✓	✓	✓				✓	✓			✓	M9*0.5					✓	✓
	4 , 5	IP67	125V	3A	✓	✓	✓				✓	✓			✓						✓	✓
	6 - 8	IP67	125V	1A		✓	✓				✓	✓			✓						✓	✓
AM12 A	3 , 4	IP67	250V	4A	✓	✓	✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓	✓	✓
	5	IP67	60V	4A	✓	✓	✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓	✓	✓
	8	IP67	30V	2A	✓	✓	✓				✓	✓	✓		✓		✓	✓	✓	✓	✓	✓
	12,17	IP67	30V	1.5A	✓	✓	✓				✓	✓	✓		✓		✓	✓	✓	✓	✓	✓
AM12 B	4	IP67	250V	4A	✓	✓	✓	✓		✓	✓	✓	✓		✓	M12*1				✓	✓	✓
	5	IP67	60V	4A	✓	✓	✓	✓			✓	✓	✓		✓					✓	✓	✓
AM12 D	4	IP67	250V	4A	✓	✓	✓	✓		✓	✓	✓	✓		✓					✓	✓	✓
AM12 X	8	IP67	60V	0.5A	✓	✓	✓				✓	✓	✓		✓						✓	✓
AM12 T	3 , 4	IP67	63V	12A	✓	✓	✓				✓	✓	✓		✓						✓	✓
AM12 S	2+PE , 3+PE	IP67	630V	12A	✓	✓	✓				✓	✓	✓		✓						✓	✓
AM12 L	2+PE , 3+PE , 4+PE , 2 , 3 , 4	IP67	63V	16A	✓	✓	✓				✓	✓	✓		✓					✓	✓	✓
AM12 K	2+PE , 3+PE , 4+PE	IP67	630V	12A	✓	✓	✓				✓	✓	✓		✓						✓	✓
AM12 M	2+PE , 3+PE , 4+PE , 5+PE	IP67	630V	8A	✓	✓	✓				✓	✓	✓		✓						✓	✓
AM12 Y	4+4	IP67	30V	0.5A/6A	✓	✓	✓				✓	✓	✓		✓						✓	✓
AM16	3 , 4 , 5 , 6	IP67	250V	5A	✓	✓	✓				✓	✓	✓		✓	M16*0.75				✓	✓	✓
	5 , 7 , 8	IP67	60V	5A	✓	✓	✓				✓	✓	✓		✓					✓	✓	✓
	7	IP67	125V	5A	✓	✓	✓				✓	✓	✓		✓					✓	✓	✓
	12,14,16,19	IP67	60V	3A	✓	✓	✓				✓	✓	✓		✓					✓	✓	✓
	24	IP67	60V	1A	✓	✓	✓				✓	✓	✓		✓					✓	✓	✓
AM78	3 , 4 , 5 , 6	IP67	600V	12A	✓	✓	✓				✓	✓	✓			7/8" -16UNF				✓	✓	✓
SC19	2 , 4	Underwater 450M	500V	16A		✓				✓	✓		✓					✓			✓	✓
SC16	4 , 8	Underwater 450M	60V	1.5A		✓				✓	✓		✓								✓	✓
IO HDMI	19	IP65	40V	0.5A	✓	✓					✓			✓						✓		✓
IO RJ45	8	IP65	30V	1A	✓	✓	✓				✓	✓	✓			13/16" -28UNS					✓	✓
IO USB	4	IP65	30V	1A	✓	✓	✓				✓	✓	✓								✓	✓
IO TYPE C	24	IP65	5V	3A	✓	✓	✓				✓	✓	✓								✓	✓
AM23	6	IP67	250V	20A	✓	✓	✓			✓	✓	✓		✓	✓	M23*1					✓	✓
	9(3+6)	IP67	300V	8A/20A	✓	✓	✓			✓	✓	✓		✓	✓						✓	✓
	12,17	IP67	150V	8A	✓	✓	✓			✓	✓	✓		✓	✓						✓	✓
	19(3+16)	IP67	150V	8A/10A	✓	✓	✓			✓	✓	✓		✓	✓						✓	✓
AM24	2 , 3 , 4	IP67	500V	30A	✓	✓	✓					✓			✓		✓				✓	✓
	9(4+5)	IP67	500V	5A/20A	✓	✓	✓					✓			✓						✓	✓
	12	IP67	400V	10A	✓	✓	✓					✓			✓						✓	✓
	19	IP67	300V	5A	✓	✓	✓					✓			✓						✓	✓

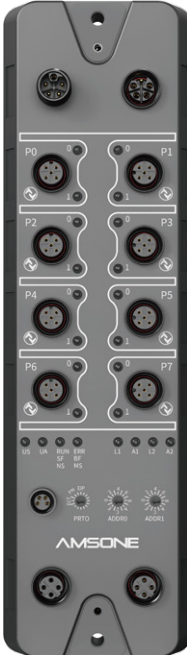
IO-Link Master (Single-Protocol)



Basic Parameters		
Order Coded	ALM-PNA1-010XXX	ALM-ECA1-010XXX
Ethernet Protocol	Profinet	EtherCAT
Address Configuration	Ethernet configuration	
IOL Version	V1.1	
IOL communication Rates	COM3 (230.4Kbps), COM2 (38.4Kbps), COM1 (4.8Kbps)	
IOL Port Class	8* Class A	
IOL Channels	Max 8 channels (configurable)	
SIO Channels	Max 16 channels DI / DO (configurable)	
Digital Output Type	PNP, 2A/Channel	
Digital Input Type	PNP	
Rated Voltage	24V DC (18–30.2V)	
Rated Current	9A	
Protection / Diagnosis	Short Circuit Protection	
Locking Mechanism	Threaded	
Housing Material	Metal	
Power Connector	IN: M12 L-Coded 5Pin Male OUT: M12 L-Coded 5Pin Female	
Fieldbus Connector	2 * M12 D-Coded 4Pin Female	
IOL/SIO Connector	8 * M12 A-Coded 5Pin Female	
Dimensions(L×W×H)	200x62x30mm	
Weight	≈0.6kg	
Enviromental Parameters		
Protection grade	IP67(Correct connection), Acc.IEC 60529	
Operating temperature	-25 ~ +70℃	
Storage temperature	-40~+80℃	
IO Tightening torque	0.5Nm	
Application environment	Acc. IEC 61131	
Vibration testing	IEC 60068-2-64 / IEC 60068-2-6	
Impact testing	IEC 60068-2-27	
Free fall test	IEC 60068-2-32	
EMC	Acc. IEC 61000-4-2,-3,-4	
Fasteners	2 Mounting holes fixed with M4 screws	

Dimensions(mm)			
Power Connector		Pins	Function
M12 L- Coded Male	M12 L - Coded Female	1	US+
		2	GND
		3	GND
		4	UA+
		5	PE
Ethernet port		Pins	Function
M12 D-Coded 4Pin Female		1	TD+
		2	RD+
		3	TD-
		4	RD-
IOL/SIO Connector		Pins	Function
M12 A-Coded 5Pin Female		1	24V
		2	SIO: DI / DO
		3	GND
		4	C/Q: IO-Link / DI / DO
		5	PE

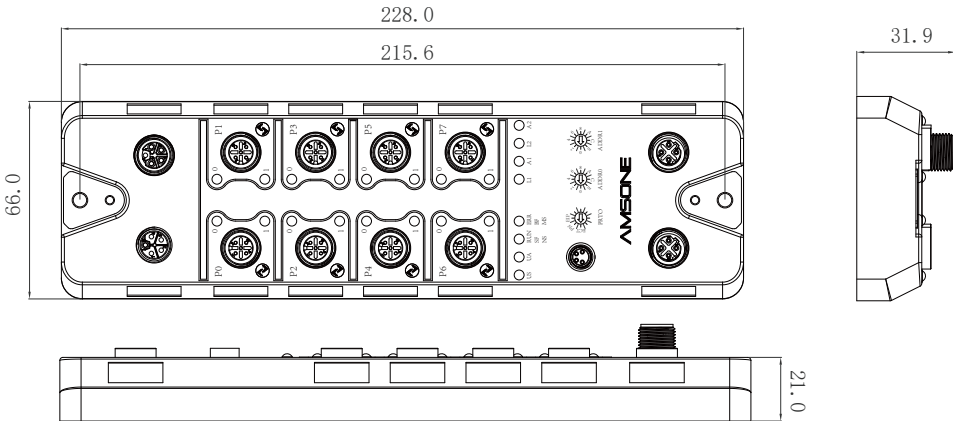
IO-Link Master (Multi-Protocol)

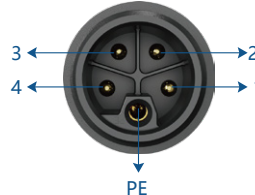
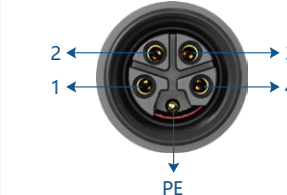
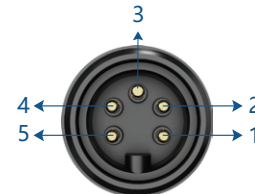
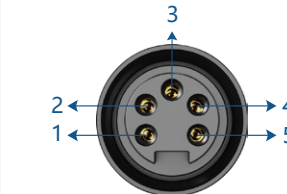
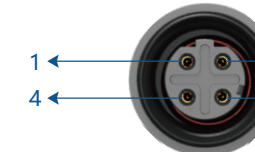
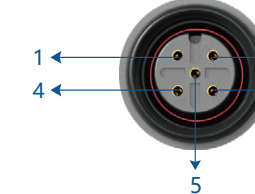
	Basic Parameters			
	Order Coded	ALM-MPA1-030XXX	ALM-MPA1-041XXX	ALM-MPA1-051XXX
	Ethernet Protocol	Profinet / EtherCat / Ethernet/IP		
	Address Configuration	Rotary DIP Switch		
	IOL Version	V1.1		
	IOL communication Rates	COM3 (230.4Kbps), COM2 (38.4Kbps), COM1 (4.8Kbps)		
	IOL Port Class	8* Class A		
	IOL Channels	Max 8 channels (configurable)		
	SIO Channels	Max 16 channels DI / DO (configurable)		
	Digital Output Type	PNP, 2A/Channel		
	Digital Input Type	PNP		
	Rated Voltage	24V DC (18~30.2V)		
	Rated Current	10A		
	Protection / Diagnosis	Temperature Alarm; Undervoltage Detection; Overvoltage / Short Circuit / Overcurrent Protection		
	Locking Mechanism	Threaded		
Housing Material	Metal	Plastic		
Power Connector	IN:M12 L-Codedd 5Pin Male (①) OUT: M12 L-Codedd 5Pin Female (①)		IN:7/8" 5Pin Male (②) OUT:7/8" 5Pin Female (②)	
Fieldbus Connector	2 * M12 D-Coded 4Pin Female			
IOL/SIO Connector	8 * M12 A-Coded 5Pin Female			
Dimensions(L×W×H)	228×66×31.9mm			
Weight	≈0.5kg			
	Enviromental Parameters			
	Protection grade	IP67(Correct connection), Acc.IEC 60529		
	Operating temperature	-25 ~ +70℃		
	Storage temperature	-40~+80℃		
	IO Tightening torque	0.5Nm		
	Application environment	Acc. IEC 61131		
	Vibration testing	IEC 60068-2-64 / IEC 60068-2-6		
	Impact testing	IEC 60068-2-27		
	Free fall test	IEC 60068-2-32		
	EMC	Acc. IEC 61000-4-2,-3,-4		
	Fasteners	2 Mounting holes fixed with M4 screws		

Products ①

Products ②

Dimensions(mm)



Power Connector		Pins	Function	
M12 L- Coded Male	M12 L - Coded Female	1	US+	
		2	GND	
		3	GND	
		4	UA+	
		5	PE	
Power Connector		Pins	Function	
7/8" Male	7/8" Female	1	GND	
		2	GND	
		3	PE	
		4	US+	
		5	UA-	
Ethernet Connector		Pins	Function	
M12 D-Coded 4Pin Female		1	TD+	
		2	RD+	
		3	TD-	
		4	RD-	
IOL/SIO Connector		Pins	Function	
M12 A-Coded 5Pin Female		1	24V	
		2	SIO: DI / DO	
		3	GND	
		4	C/Q: IO-Link / DI / DO	
		5	PE	

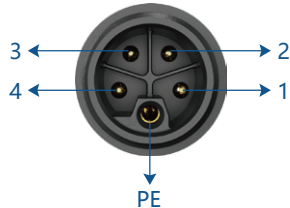
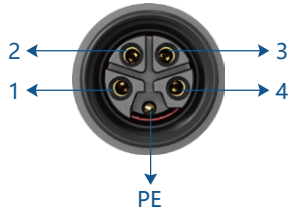
IO-Link Device (PNP Hub)

Basic Parameters						
Order Coded	ALD-HBP1-310XXX	ALD-HBP2-330XXX	ALD-HBP1-351XXX	ALD-HBP2-364XXX	ALD-HBP1-372XXX	ALD-HBP2-382XXX
Products Img.						
Digital Input	PNP					
Digital Output	PNP, 0.5A/channel	PNP, 2A/channel	PNP, 0.5A/channel	PNP, 2A/channel	PNP, 0.5A/channel	PNP, 2A/channel
Rated Current	4A	12A	4A	12A	4A	12A
Locking Method	Metal thread		Metal thread / bayonet		Plastic thread	
Housing Material	Metal		Plastic			
Rated Voltage	24V DC(18~30.2V)					
Communication Protocol	IO-Link V1.1					
Minimum cycle period	3ms					
Communication Rate	COM2 (38.4Kbps)					
Process Data (PD)	2 Input Byte, 2 Output Byte					
Firmware Upgrade	Supported					
Data Storage (DS)	Supported					
IOL Connector	1*M12 A-Coded 5Pin Male					
SIO Signal Connector	8*M12 A-Coded 5Pin Female					
Auxiliary Power Connector	1*M12 L-Coded 5Pin (Only provided for models with rated current >4A)					
Signal Type	Digital					
Channels	16 Channels DI / DO (configurable)					
Protection / Diagnosis	Temperature Alarm; Undervoltage Detection; Overvoltage / Short Circuit / Overcurrent Protection					
Dimensions (L x W x H)	140x62x30mm					
Weight	≈ 0.43kg					
Enviromental Parameters						
Protection grade	IP67(Correct connection), Acc.IEC 60529		Vibration testing	IEC 60068-2-64 / IEC 60068-2-6		
Operating temperature	-25 ~ +70℃		Impact testing	IEC 60068-2-27		
Storage temperature	-40~+80℃		Free fall test	IEC 60068-2-32		
IO Tightening torque	0.5Nm		EMC	Acc. IEC 61000-4-2,-3,-4		
Application environment	Acc. IEC 61131		Fasteners	2 Mounting holes fixed with M4 screws		

Dimensions(mm)

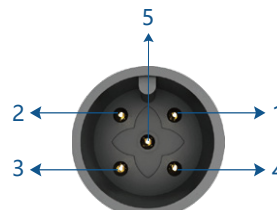
Technical drawing of the device showing front, side, and top views with dimensions. The front view shows a rectangular panel with a width of 140.0 mm and a height of 62.0 mm. It features eight circular ports labeled P0 through P7, arranged in two rows of four. Each port has a pin configuration diagram. To the right of the ports are three small circular indicators labeled 'PWR', 'RUN', and 'ERR', and a larger circular port. The side view shows a depth of 20.0 mm. The top view shows a width of 30.0 mm and a depth of 30.9 mm.

Power Connector

M12 L-Coded Male	M12 L-Coded Female
	

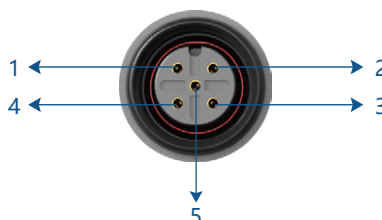
Pins	Function
1	UA+
2	GND
3	GND
4	UA+
5	PE

IOL Connector

M12 A-Coded 5Pin Male


Pins	Function
1	US+
2	UA+
3	GND
4	C/Q: IO-Link
5	NC

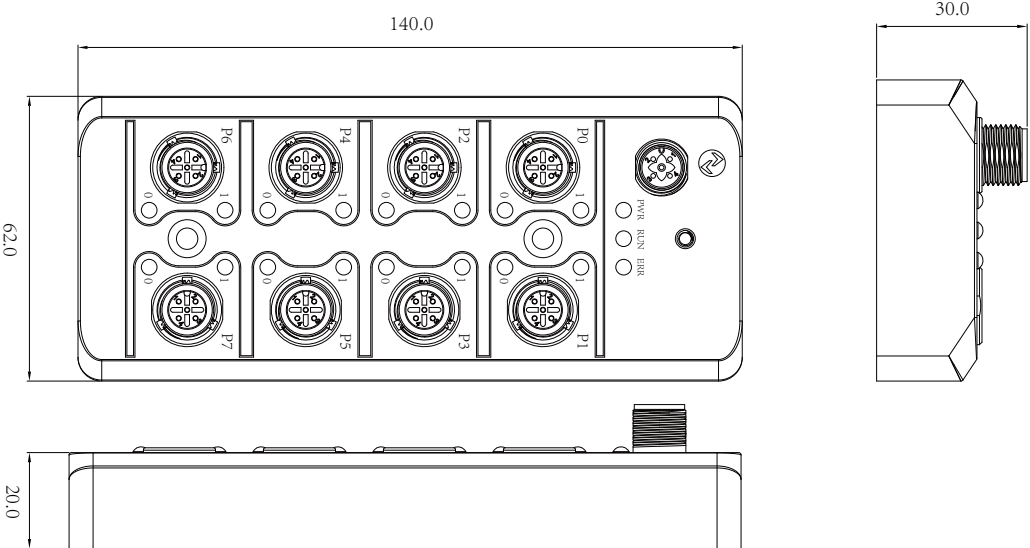
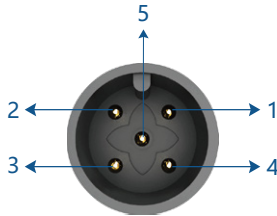
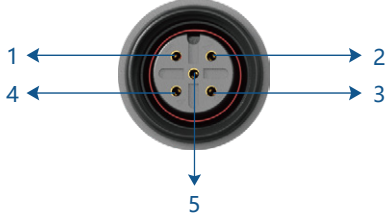
IO Connector

M12 A-Coded 5Pin Female


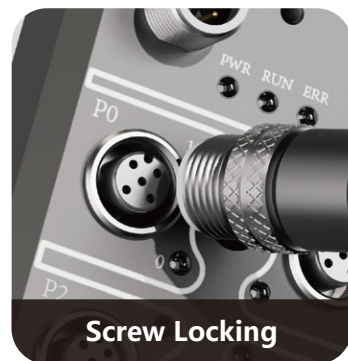
Pins	Function
1	24V
2	SIO: DI / DO
3	GND
4	SIO: DI / DO
5	PE

IO-Link Device (NPN Hub)

Basic Parameters			
Order Coded	ALD-HBN1-310XXX	ALD-HBN1-354XXX	ALD-HBN1-372XXX
Products Img.			
Digital Input	NPN		
Digital Output	NPN, 0.5A/channel		
Rated Current	4A		
Locking Method	Metal thread	Metal thread / bayonet	Plastic thread
Housing Material	Metal	Plastic	
Rated Voltage	24V DC(18 - 30.2V)		
Communication Protocol	IO-Link V1.1		
Minimum cycle period	3ms		
Communication Rate	COM2(38.4Kbps)		
Process Data (PD)	2 Input Byte、2 Output Byte		
Firmware Upgrade	Supported		
Data Storage (DS)	Supported		
IOL Connector	1*M12 A-Coded 5Pin Male		
SIO Signal Connector	8*M12 A-Coded 5Pin Female		
Auxiliary Power Connector	null		
Signal Type	Digital		
Channels	16 channels DI / DO (configurable)		
Protection / Diagnosis	Temperature Alarm; Undervoltage Detection; Overvoltage / Short Circuit / Overcurrent Protection		
Dimensions (L x W x H)	140x62x30mm		
Weight	≈ 0.43kg		
Enviromental Parameters			
Protection grade	IP67(Correct connection), Acc.IEC 60529	Vibration testing	IEC 60068-2-64 / IEC 60068-2-6
Operating temperature	-25 ~ +70℃	Impact testing	IEC 60068-2-27
Storage temperature	-40~+80℃	Free fall test	IEC 60068-2-32
IO Tightening torque	0.5Nm	EMC	Acc. IEC 61000-4-2,-3,-4
Application environment	Acc. IEC 61131	Fasteners	2 Mounting holes fixed with M4 screws

Dimensions(mm)		
		
IOL Connector	Pins	Function
	1	US+
	2	UA+
	3	GND
	4	C/Q: IO-Link
	5	NC
IO Connector	Pins	Function
	1	24V
	2	SIO: DI / DO
	3	GND
	4	SIO: DI / DO
	5	PE

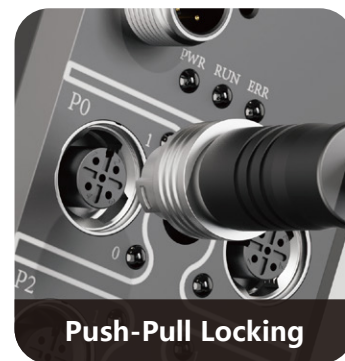
Optional locking systems



Screw Locking



Bayonet Locking

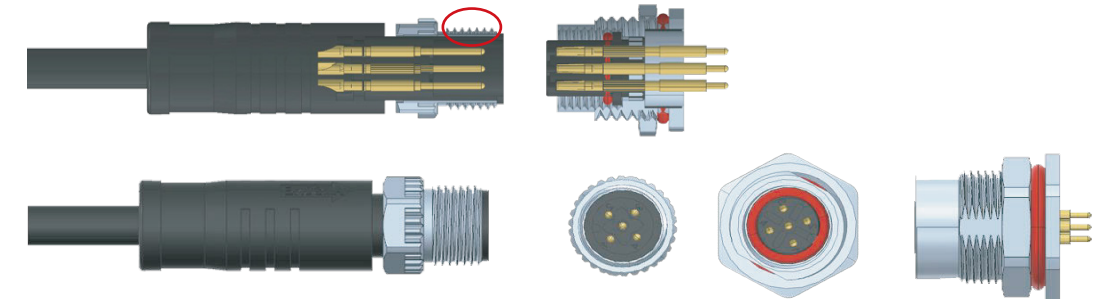


Push-Pull Locking

1. Screw Locking >>

M12 Connectors, Standard According to IEC 61076-2-101-2012

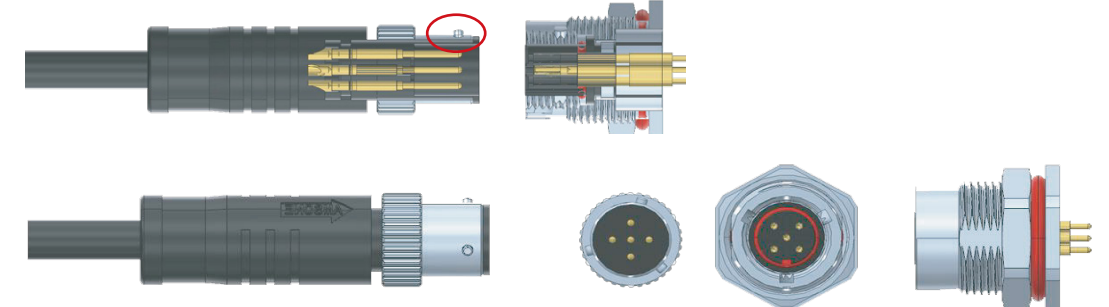
Screw Locking



2. Bayonet Locking >>

M12 Connectors, Standard According to IEC 61076-2-011-2021

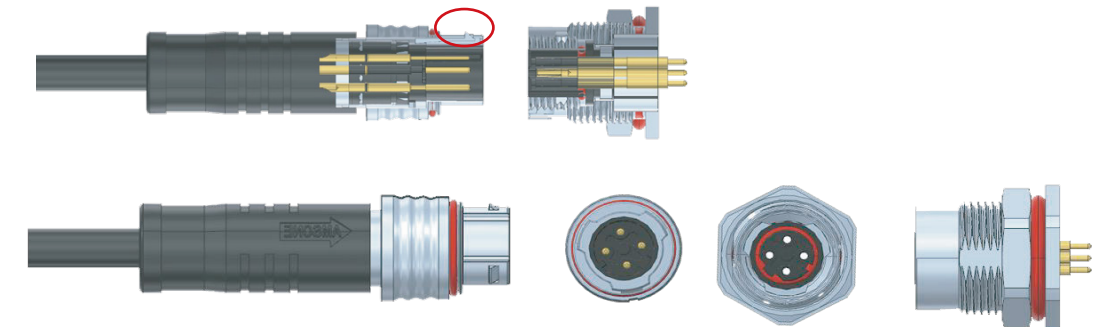
Bayonet Coupling



3. Push-Pull Locking >>

M12 Connectors, Standard According to IEC 61076-2-012-2020

Push-Pull Locking



IO Connectors,Cables & Accessories

Type	Order Coded	Description	Images
Cable	AM12M0511A421-010	M12 Pre-Molded Cable,5Pins,A Code,Male/Female,Straight,Cable Assembly,L=1000mm	
Cable	AM12M0511A141-010	M12 Pre-Molded Cable,5Pins,A Code,Male,Straight/Free end,Cable Assembly,L=1000mm	
Cable	AM12F0511A141-010	M12 Pre-Molded Cable,5Pins,A Code,Female,Straight/Free end,Cable Assembly,L=1000mm	
Cable	AM12M0511A142-010	M12 Pre-Molded Cable,5Pins,A Code,Male,Angled/Free end,Cable Assembly,L=1000mm	
Cable	AM12F0511A142-010	M12 Pre-Molded Cable,5Pins,A Code,Female,Angled/Free end,Cable Assembly,L=1000mm	
Cable	AM12M0411D235-010	M12 Pre-Molded Cable,5Pins,D Code,Male,Straight/Free end,Cable Assembly,L=1000mm	
Cable	AM12M0411D631-010	M12 Pre-Molded Cable,4Pins,D Code,Male,Straight/RJ45 Plug,ProfiNet Cable,L=1000mm	
Cable	AM12M0511L171-010	M12 Pre-Molded Cable,5Pins,L Code,Male,Straight/Free end,Cable Assembly,L=1000mm	
Cable	AM12F0511L171-010	M12 Pre-Molded Cable,5Pins,L Code,Female,Straight/Free end,Cable Assembly,L=1000mm	
Connector	AM12M0514A005	M12 Cable Connector,5Pins,Male,A Code,Straight,Field Assembly,Screw Connection,Plastic Shell,Ø4-8mm	
Connector	AM12F0514A006	M12 Cable Connector,5Pins,Female,A Code,Straight,Field Assembly,Screw Connection,Plastic Shell,Ø4-8mm	

Type	Order Coded	Description	Images
Connector	AM12M0514A010	M12 Cable Connector,5Pins,Male,A Code,Angled,Field Assembly,Screw Connection,Plastic Shell,Ø4-8mm	
Connector	AM12F0514A010	M12 Cable Connector,5Pins,Female,A Code,Angled,Field Assembly,Screw Connection,Plastic Shell,Ø4-8mm	
Connector	AM12M0514A004	M12 Cable Connector,5Pins,Male,A Code,Straight,Field Assembly,Screw Connection,Metal Shell Shield,Ø4-8mm	
Connector	AM12F0514A005	M12 Cable Connector,5Pins,Female,A Code,Straight,Field Assembly,Screw Connection,Metal Shell Shield,Ø4-8mm	
Connector	AM12M0514A011	M12 Cable Connector,5Pins,Male,A Code,Angled,Field Assembly,Screw Connection,Metal Shell Shield,Ø4-8mm	
Connector	AM12F0514A018	M12 Cable Connector,5Pins,Female,A Code,Angled,Field Assembly,Screw Connection,Metal Shell Shield,Ø4-8mm	
Adapter	AM12Y05MFF000-A01	M12 Y-Splitter 5Pins A Code Male / Female / Female Overmolded Adapter	
Protective Cap	AM12MCAPM001	M12 Male Connector Protective Cap Metal With Chain	
Protective Cap	AM12FCAPM001	M12 Female Connector Protective Cap Metal With Chain	
Protective Cap	AM12MCAPP001	M12 Male Connector Protective Cap Plastic	
Protective Cap	AM12FCAPP001	M12 Female Connector Protective Cap Plastic	

Custom Wire Harness and Cable Assembly

Whatever type of connection you need, Amissiontech offers flexible manufacturing and best technical solutions for your applications, from prototyping to series production, from diverse connectors to individual cables, which means highly available, durable and efficient and makes us a specialist in custom designing and production.

■ Features

- > Good knowledge in industrial waterproof connectivity
- > Electromechanical design, Prototype, and Test supports
- > Tooling design and manufacturing
- > Internal and external over molded solution
- > Plastic injection and CNC-turnery
- > High quality, Cost-effective and Accurate delivery
- > UL/CE/RoHS Certified

■ Products and Services Category

- > Industrial wire harness and cable assemblies
- > Standard or customized power cords
- > Temperature sensor cable
- > Audio,Video cable and RF coaxial cable
- > Standard or customized solutions

■ Technology and Capabilities

1.Connector Manufacturing

2D or 3D drawings for engineering analysis.

Development for toolings and early design in evaluation.

Plastic injection in-house.

Outsourced machining,finishing process and tooling manufacturing

Manually assembly,full automatic and half-automatic assembly .

2.Cable Preparation

Trimming, stripping, tin coating, shielding and twisting.

3.Contacting

Crimping,soldering,crimp-soldering,pressing,screwing and gluing.

4.Injection Molding

Vertical injection molding for strain relief , inner and outer housing;

Horizontal plastic injection and low pressure injection overmolding.

5.Final Assembly

Bolting,binding,shrinking,extruding and etc.

6.Mechanical and Electrical test

Pull force/cross section/vibration tesing ;

Aging/bending/salt spray testing;

Electric and visual testing.

7.Labeling and Packing

