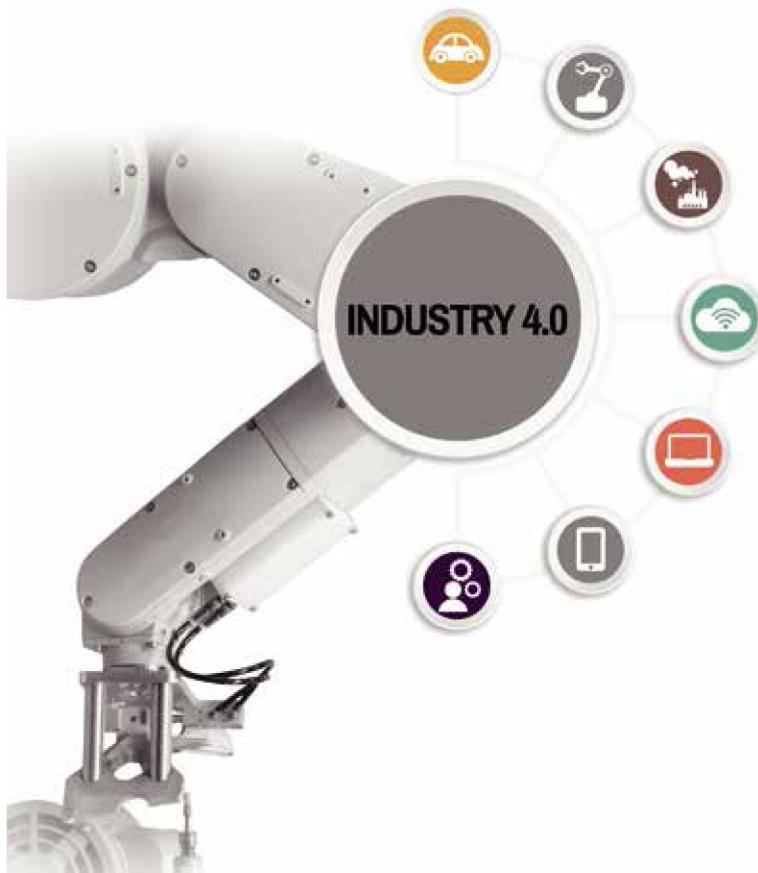


Amphenol Industrial Automation Market



<http://www.amphenoltw.com>

Industrial Automation Focus

Product		Pin Number	Current Rating	Operating Temperature	IP Rating	Certification / Compliance
M Series		G8 2~6P M8 3~4P M10.5 2~5P M12 A Code: 3~12P / B Code: 3~5P / D Code: 3~5P / I Code: 5P / S & T Code: 4P / X Code: 8P HDSC 2~14P M23 6P	GB 5~6P: 1.5A / 2~4P: 3A M8 3A M10.5 2A M12 A Code 10, 12P: 1.5A / 6, 8P: 2A M12 A, B, D Code 3, 4, 5P: 4A / I Code: 4A / S & T Code: 12A / X Code: 0.5A HDSC 10, 12, 14P: 5A / 4, 5, 7P: 10A / 2, 3P: 20A M23 28A	Panel -40°C~+105°C Fl -40°C~+105°C Overmolded PVC -20°C~+80°C / PUR -20°C~+65°C	Receptacle (unmated) IP68 / IP69K Overmolded with cable (mated) IP65 / IP68	RoHS / REACH M12 - IEC 61076-2-101, IEC 61076-2-109 (X-code) M8 - IEC 61076-2-104, IEC 61076-2-111 (S & T-code)
HS-Lok		2~6P	Q8D 2, 3, 4P: 5A Q8U 5, 6P: 2A Q8DU 2~3P: 5A+2A	Receptacle -40°C~105°C Overmolded with Cable -40°C~105°C	Receptacle / Overmolded with cable (mated) IP68	RoHS / REACH / UL2238 (Outdoor Use, UL50e)
Circular		Mini Size (A) 2~6P Standard Size (B) 2~12P Middle Size (C) 2~18P Large Size (D) 2~22P Macro Size 31P	Mini Size (AU) (ASU) 4~6P: 2A / (AD) 2~3P: 5A / (ASD) 2P: 5A Standard Size (BU) (BSU) 10, 12P: 2A / (BD) 2~8P: 5A / (BSD) 4~8P: 5A / (BB) 2~4P: 10A / (BSB) 4P: 10A / (BDU) 8P: 5A+2A / (BBD) 6P: 10A+5A Middle Size (CU) 18P: 2A / (CD) 7, 8, 9, 10, 12, 14P: 5A / (CB) 4~6P: 10A / (CG) 2~3P: 20A / (CDU) 12, 14P: 5A+2A / (CBD) 8P: 10A+5A / (CBU) 8P: 10A+2A Large Size (DU) 20~22P: 2A / (DD) 18P: 5A / (DC) 2~7P: 20A / (DCU) 8P: 20A+2A / (DCD) 12P: 20A+5A Macro Size (ED) 31P: 5A Other Size (GDU) 8P: 10A+5A / (MAB) 4P: 10A / (PLD) 2~4P: 5A	Receptacle -40°C~105°C Receptacle with Cable -20°C~80°C Overmolded with Cable -20°C~80°C Field Installable -40°C~105°C	Receptacle (unmated) IP67 Overmolded with cable (mated) IP66 / IP67 Field Installable (mated) IP67	RoHS / REACH
X-Lok		Standard Size (B) 2~8P Middle Size (C) 2~12P Large Size (D) 2~18P	Standard Size Data (BD) 2~8P: 5A / (BB) 2~4P: 10A / Power (BD) 3P: 5A / (BB) 2~4P: 10A / Hybrid (BBD) 3~6P: 10A+5A Middle Size Data (CD) 7, 8, 9, 10, 12P: 5A / (CB) 4~6P: 20A / Power (CC) 2~3P: 20A / Hybrid (CBD) 4~8P: 10A+5A Large Size Data (DD) 12, 14, 18P: 5A / Power (DC) 2, 3, 5P: 20A / Hybrid (DCD) 4~12P: 20A+5A	Receptacle -40°C~105°C Overmolded With Cable Data Group: -20°C~80°C / Power Group: -20°C~105°C / Hybrid Group: -40°C~105°C Field Installable -40°C~105°C	Receptacle (unmated) IP68 Overmolded with cable/Field Installable (mated) IP68	RoHS / REACH / CSA / UL1977 / UL2238 / UL50e
POWER		PWE 5~7P / PWF 2~4P / PWG 4P / PWC 3P / PHW 3, 5P / PWCU 4, 12P / PWL 3P / PWJ 3P	PWE 5~7P: 8A / PWF 2~4P: 12A / PWG 4P: 16A / PWC 3P: 20A / PHW 3, 5P: 25A / PWCU 4, 12P: 20A+2A / PWL 3P: 30A / PWJ 3P: 30A	Receptacle -40°C ~ 105°C Overmolded with Cable -20°C ~ 80°C Field Installable -40°C ~ 105°C	Receptacle (unmated) IP67 / Overmolded with cable (mated) IP67 Field Installable IP67 / (mated) IP68	RoHS / REACH / UL1977
USB / Micro USB		USB 2.0: Type A,B / 3.0: Type A / 3.1: Type C Mini USB 2.0 Type B	USB 2.0 1.5A / 3.0: 1A USB Type C 3.1 3A Micro USB 1P, 5P, 1.8A / 2P, 3P, 4P: 1A	Receptacle Nylon+GF: -40°C~105°C / M-PPE: -40°C~105°C / ABS: -20°C~80°C Receptacle with Cable Nylon+GF: -20°C~105°C / ABS: -20°C~80°C Overmolded with Cable -20°C~80°C	USB Receptacle (unmated) IP68 Overmolded with cable: (mated) IP67 Field Installable (mated) IP68 Mini USB Receptacle (unmated) IP67 Overmolded with cable / Field Installable (mated) IP67 Micro USB (unmated) IP68	RoHS / REACH



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Industrial Automation Focus

Product		Pin Number	Current Rating	Operating Temperature	IP Rating	Certification / Compliance
DVI		19, 23, 25, 29P	1.5A	Receptacle -20°C~80°C Overmolded with Cable -20°C~80°C	Receptacle (unmated) IP68 Overmolded with cable (mated) IP67	RoHS / REACH
D-SUB		Standard 9, 15, 25, 37, 50P High Density 15, 26, 44, 62, 78P	Standard 5A High Density 2A	Receptacle -40°C~105°C Overmolded with Cable -20°C~80°C Field Installable -40°C~105°C	Receptacle (unmated) IP68 Overmolded with cable / Field Installable (mated) IP67	RoHS / REACH
HDMI		19P	0.5A	Receptacle -20°C~80°C Overmolded with Cable -20°C~80°C	Receptacle (unmated) IP67 Overmolded with cable (mated) IP67	RoHS / REACH
RJ45		N/A	2A	Receptacle -20°C ~ 80°C Coupler -40°C ~ 105°C Overmolded With Cable -20°C ~ 80°C Field Installable -40°C ~ 105°C	Receptacle (unmated) IP67 Overmolded with cable/Field Installable (mated) IP67	RoHS / REACH / Meets ODVA / Profinet / TIA / EIA-568
Vent		N/A	N/A	-40°C~+125°C	IP68 / IP69K	RoHS / REACH / GB / T 2423.16 (Fungus)
LED Indicator		N/A	Forward current: 20~35mA Max	-40°C~+80°C	(unmated) IP67	RoHS / REACH

Industrial Automation Applications

Industrial Automation plays an increasingly important role in the global economy. Not only does automation sensors in the form of connectors, cord sets, and proximity switches act as a control system providing perfectly suited for industrial equipment and machinery. The M-Series line of sensors and actuators are designed for extremely adverse installation situations. We offer a variety of high-quality M-Series Sensor Connectors.

Application	M Series	M Series Accessories	HS-Lok
Industrial Robots	✓	✓	✓
Industrial Networking	✓	✓	✓
Industrial Forklifts	✓		✓
Automatic Visual Inspection	✓	✓	✓
Industrial Communication System	✓	✓	✓
Industrial Control	✓		✓
Packaging	✓		✓
Conveyors	✓		✓
Sensors	✓	✓	✓
Switches	✓	✓	✓
Power	✓	✓	

M12 Pin Code

A-Code



B-Code



D-Code



I-Style



S-Code



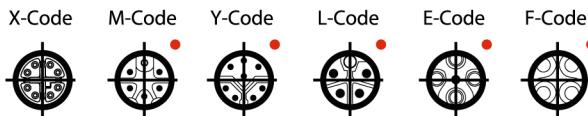
T-Code



increase productivity and reduce cost, it also improves the quality and consistency of products being produced. reliable connections in the key industrial machinery and factory automation markets. Amphenol LTW's M-Series is offer safety in harsh environmental conditions including corrosion, shock vibration, dust, moisture buildup as well as s that range from the market standard to the highly customized.

Circular	X-Lok	POWER	USB	DVI	D-S
✓	✓	✓	✓	✓	✓
✓	✓		✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓		✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓		✓	✓
✓	✓		✓	✓	✓
✓	✓		✓	✓	✓
✓	✓		✓	✓	✓
✓	✓			✓	✓
✓			✓		✓
✓			✓		✓
				✓	✓
			✓		✓
					✓

USB Series



- ✓ Type C 3.1
- ✓ Type A 3.0, 2.0
- ✓ Type B 2.0
- ✓ Mini-USB
- ✓ Micro-USB

● Coming Soon

SUB	HDMI	RJ45	LED Indicator	Vent	EIP
/	✓	✓	✓	✓	✓
/			✓	✓	✓
/	✓	✓	✓	✓	✓
/	✓	✓		✓	✓
/	✓	✓	✓	✓	✓
/	✓	✓	✓	✓	✓
/	✓	✓	✓	✓	✓
/	✓	✓		✓	✓
/	✓	✓	✓		✓
/	✓	✓			✓
/	✓	✓	✓	✓	
/					

RJ45 Series

- ✓ Cat.6A
- ✓ Cat.5e
- ✓ POE

Amphenol LTW

Our History

LTW Technology, established in 1993, is a professional designer and manufacturer of waterproof connectors. In April of 2010, LTW Technology was acquired by Amphenol Group and officially changed its company name to "Amphenol LTW Technology Co., Ltd."

Amphenol LTW actively devotes to various outdoor and industrial applications by successfully developing high-end waterproof connectors to meet strict requirements; also has many worldwide patents and certification such as ISO 14001, ISO 9001 and NMEA 2000.

Amphenol LTW is not only a supplier of waterproof connectors but also a solution provider in diversified market segments.

Our Mission

Amphenol LTW is fully committed to fulfill every customer's desire in their interconnection needs. The customized ability and wide-ranging products make us unique from competitors. Furthermore, high standard in product quality and outstanding customer service are to be expected.

- Customized capability for all interconnect solution
- Breakthrough innovation
- High standard in product quality
- Worldwide customer base
- Wide-ranging products for your market segment needs

The world's preferred interconnect solution provider-Amphenol LTW Technology.



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