Amphenol®



Micro Bayonet Connector Micro-B™

Company Introduction





Amphenol Industrial Products Group

Amphenol Industrial Operations (AIO), a division of the Amphenol Corporation, is a prominent manufacturer of cylindrical connectors known around the world. Amphenol Industrial's product lines consist of rectangular, standard miniature, fiber optic, EMI/EMP filter, and a variety of special application connectors.

Manufacturing connectors since 1932, we take pride that the Amphenol Industrial Operations is the undisputed leader in interconnect systems for harsh environment applications. Innovations like our RADSOK® contact technology can provide roughly 50% more current through the same size pin. Connectors utilizing this RADSOK® technology will outperform similar products in the market hands down.

The Sidney, NY facility, nestled at the foothills of the Catskill Mountains, is over 307,000 square feet (28,521m²). This complex houses over 1,000+ employees incorporating state-of-the-art manufacturing technologies. The facility is both ISO9001 certified and qualified to MIL-STD-790 requirements.

Amphenol Technology (Zhuhai)

Established in 2007, Amphenol Technology (Zhuhai) Co., Ltd. is a manufacturing facility for the Amphenol Industrial Products Group, which serves a number of industrial markets, included but not limited to Factory Automation, Transportation, Heavy Equipment, Alternative Energy, Oil & Gas, Server/Data Comm and Power Distribution.

Amphenol Technology (Zhuhai) Co., Ltd. covers an area of 306,449 square feet (28,470m²) and is equipped with CNCs, plating, injection molding and assembly workshops. This plant specializes in the design and manufacturing of industrial connectors featuring high power, high density inserts, medium to high voltage electrical properties, and harsh environment applications.

Many of the products produced here have been certified by independent standards including UL, IEC/TUV, ATEX, IECEx and MA. The facility is also certified to ISO 9001, ISO 14001 and TS16949.

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Micro-B™ Product Introduction



Amphenol Industrial offers a high performance circular connector product range developed for industrial applications where electrical performance must be met with affordability. High mating cycles, along with the ability to operate in difficult environments are the benchmark of rugged connectors. Amphenol's new Micro-Bayonet series provides the solution that meets your budget and performance goals.

Made from an aluminum shell, Micro-B utilizes a robust triple bayonet coupling (1/4 turn mating) mechanism and stamped & formed contacts. Various mounting options are available including in-line and 2-hole flange mount configurations.

Micro-B meets the requirements of today's electrical equipment for a connector with a small footprint, light in weight, high density insert patterns, and high reliability.

Micro-B meets all RoHS requirements. With Gray ZnNi Plating, Micro-B can withstand up to 500 hours salt spray without corrosion detrimental to its operation.



Features and Benefits

- Aluminum shell construction provides high strength while being light in weight
- Stamped and formed crimp contacts, easy for cable assembly
- 1/4 turn positive bayonet coupling, quick coupling
- Multiple shell plating options (up to 500H salt spray protection)
- High shock and high vibration resistance

- Operating temperature range: -40°C~125°C
- Protection up to IP67 when in the mated condition with Backshell
- 5 Key/keyway mating
- · High density
- Small Footprint
- · PCB Tail contact option is available
- UL certifications in process

Market Application

Widely used in general and hash environments, Micro-B is suitable for markets using signal connections including but not limited to the following:

- Telecommunications
- Hybrid/Electric Vehicle
- Robotics/Factory Automation
- · Industrial Instrumentation
- Security
- Test Equipment
- Unmanned Aerial Vehicles



Technical Specifications

Shell Material	Aluminum		
EMI-Ring	Copper Alloy		
Retaining Ring	Stainless steel		
Wave Ring	Stainless steel		
Insert Material	Plastic (PA66)		
	Material	Copper Alloy	
Contact	Plating	Tin/Gold Plated	
	Termination	Crimp	
Temperature Range	-40°C ~ 125°C		
Ingress Protection	With Heat Shrink, the ingress protection is IP54 in the mated condition. With Cable Gland Backshell, the ingress protection level increases to IP67 in the mated condition.		
Test Current	#22D Contact 3A		
Recommended Operating Voltage	AC 250V RMS		
Test Voltage	AC 500V RMS		
Insulation Resistance	500V, 1000MΩ Min		
Contact Resistance	22mΩ Max		
Mating Cycles	500 Cycles (30μ Gold Plated, Selective Area on Contacts)		
Vibration	In accordance with test procedure EIA-364-28D		
Thermal Shock	In accordance with test procedure EIA-364-32D		
Oalt Owner	1. Gray ZnNi (Conduct	tive): 500H	
Salt Spray	2. Electroless Nickel (Conductive): 48H		
RoHS	Compliant		

Insert Arrangements

Pole	7	9	15
Insert Arrangement			
	8-7	9-10	10-15
Total Contacts	7	10	15
Contact Size	22D	22D	22D



CONTACT LEGEND

A (Standard) B (150°)

D

Keying

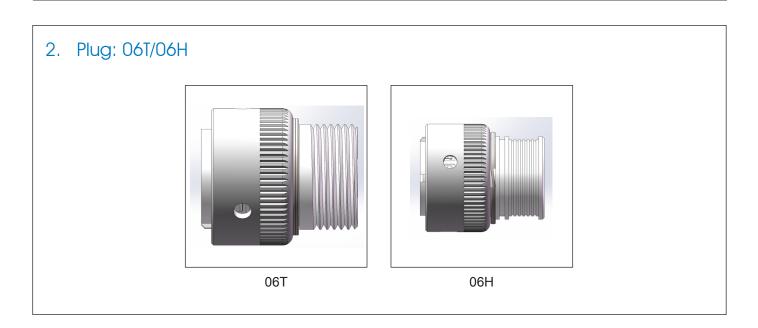
To avoid cross-plugging within applications requiring the use of more than one miniature cylindrical connector of the same size and arrangement, alternate insert rotations are available.

As shown in the diagram to the left, the front face of the plug shell is rotated in a clockwise direction from the normal shell keying position. The receptacle shell is rotated counterclockwise the same number of degrees in respect to the normal shell key position.

A plug with a given rotation letter will mate with a receptacle with the same rotation letter. The degree angles for a given connector are the same whether it contains pin or socket. Inserts are not rotated in conjunction with the master key/keyway.

Shell Styles

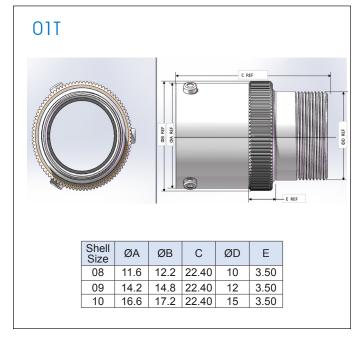


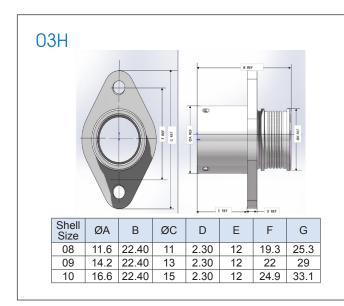


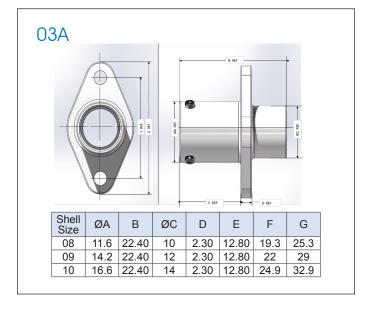
Shell Dimensions

Receptacles



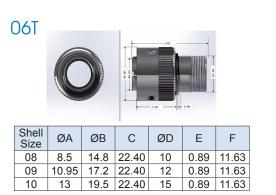






Plugs





How to Order

1	2	3	4	5	6	7
Series	Shell Style	Service Class	Insert Arrangement	Contacts	Keying	Options
MB	06T	E	10-15	Р	N	(072)

1 - Series					
MB	Designates Micro-B™				

	2 - Shell Style
01T	Cable connecting receptacle with metric thread
01H	Cable connecting receptacle with Heat Shrink Tubing grooves
03T	2 Hole flanged receptacle with metric thread
03H	2 Hole flanged receptacle with Heat Shrink Tubing grooves
06T	Straight plug with metric thread
06H	Straight plug with Heat Shrink Tubing grooves
03A	2 Hole flanged receptacle with no grooves and no thread

3 - Class					
Α	Non-Environmental				
E	Environmental with proper backshell				

4 - Insert Arrrangements

Refer to page 5 for insert availability.

"10-15" designates insert arrangement.



5 - Contacts					
Р	designates S&F pin contacts, order separately and packaged by reel, see page 9				
s	designates S&F socket contacts, order separately and packaged by reel, see page 9				

(Se	6 - Keying (See Alternate Keying, page 5)				
N	(Standard)				
A	1200				
В	150°				
С	210°				
D	240°				

	7 - Options				
(072)	Gray ZnNi				
(023)	Electroless Nickel				
(424)	Electroless Nickel finish with cable clamp				
(425)	(425) Electroless Nickel finish with cable gland				
(574) Gray ZnNi finish with cable clamp					
(575)	Gray ZnNi finish with cable gland				
(EMI)	EMI Band				



Note: Contacts are sold separately, please refer to page 9.

Example: MB 06T E 10-15 PN(425) equals Straight plug with Cable Gland, Electroless Nickel Plated Shell, N Keyway.

By including a cable gland (E service class), this connector can reach IP67 when in the mated condition.

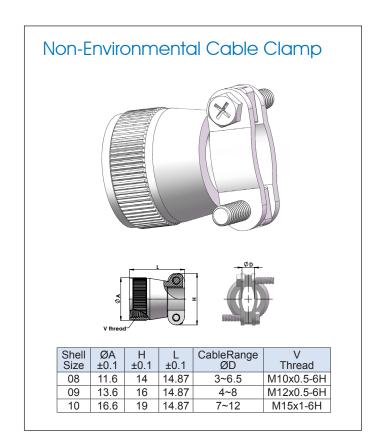
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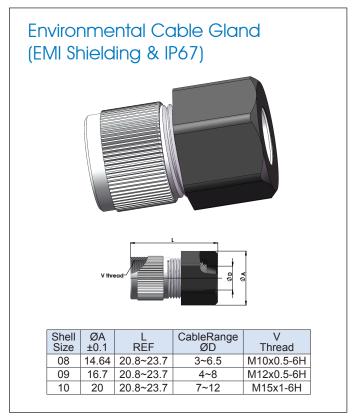


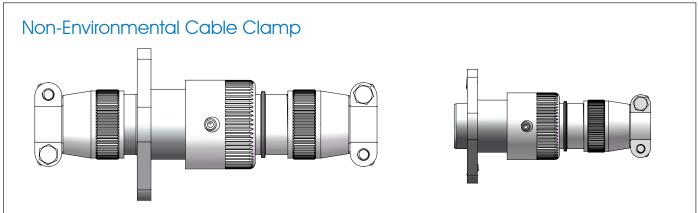
#22D Stamped & Formed Contacts

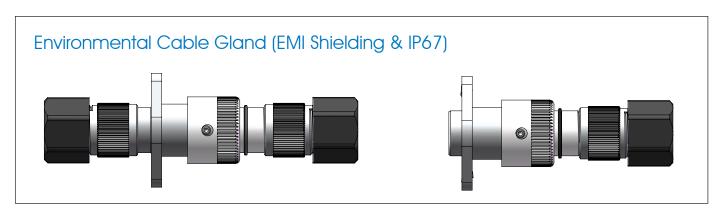
Ci=o	Current	PIN/SOCKET	Wire		Dietina	Plating	Part No	Doo/Book																			
Size	(A)	PIN/SOCKET	AWG	mm²	Plating		Part NO	Pcs/Reel																			
		S & F PIN					Tin plating	C10-737688-221																			
			22-26	0.14-0.30	Gold flash	C10-737688-222																					
		SAFFIN		22-20	22-20	22-20	22-20 0.14-0.0	22-20	22-20	22-20 0.14-	22-20 0.14	22-20	22-20	.2-20 0.14-0.30	0.14-0.30	10u" gold plating	C10-737688-223										
22D#	3																			30u" gold plating	C10-737688-224	3000pcs / Reel					
220#	S & F POCKE					Tin plating	C10-737689-221	(Order Separately)																			
		S & E DOCKET	00.00	22-26 0.1	22-26 0.14-0	22-26	22-26	22-26	22-26	22-26	22-26	22-26 0.14-0.30	22-26 0.	22-26	00.00	00.00	22.26	00.00	0.44.0.20	0.44.0.20	00.00	0.14.0.20	00.00	00.00	Gold flash	C10-737689-222	
		3 & F POCKET 22-20	S & F POCKET 22-20 0.14-0.30												0.14-0.30	22-20 0.14-0.30	10u" gold plating	C10-737689-223									
					30u" gold plating	C10-737689-224																					

Accessories - Cable Clamps, Cable Glands, Caps

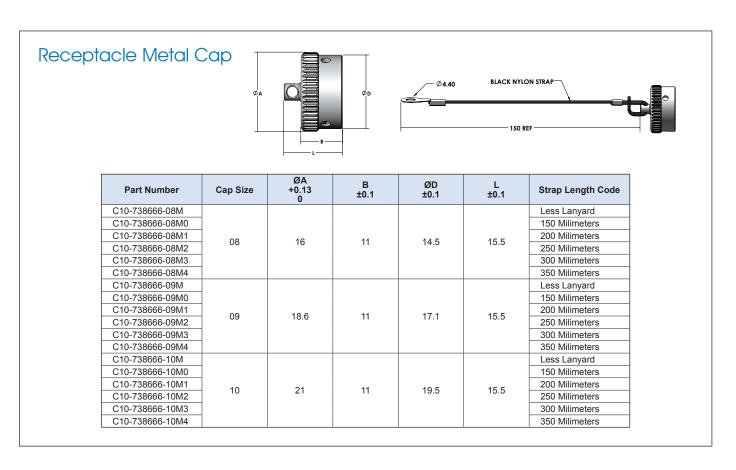






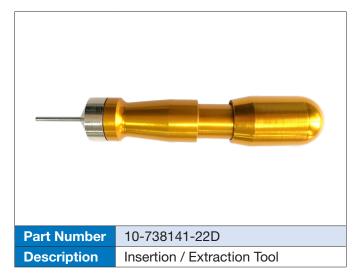


Accessories - Cable Clamps, Cable Glands, Caps



Tools



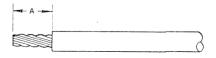


Crimp Instructions

Wire Preparation

Strip wire to length shown in chart. DO not cut or nick wire strands. Twist wire strands back to their original lay.

CONTACT AND WIRE SIZES						
Contact Size Wire Size Insulation O.D. Stripping Length "A"						
22D 22AWG 0.643 3-4mm						



Crimp Tool

Part Number: 10-737871-000

DMC GMT 220



Crimp Wire To Contacts

- 1. Put the wire into the contact. All wire strands should be in crimp barrel. Place contact crimp barrel on correct anvil of tool with open side facing up.
- 2. Slowly close jaws until the contact is retained by crimping jaws.
- 3. Check that the wire is in place, making sure all wire strands are in crimp barrel. Continue to close the jaws slowly, until the ratchet disengages.
- 4. The tool will not release until the crimp cycle is complete.









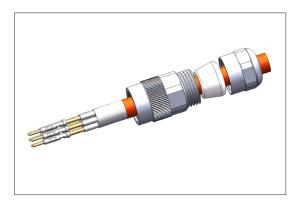
Step One

Step Two

Step Three

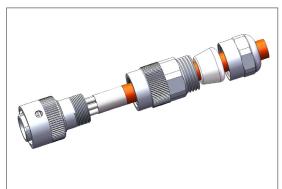
Step Four

Cable Assembly Instructions



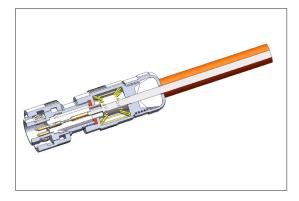
Step 1:

Spread open the shielding braid and cover with the copper Foil Tape then pass the terminated contacts through the adaptor and grommet.



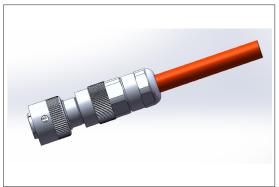
Step 2:

Align the connector into their corresponding insert holes. Press the cable gland down into a tightly seated position into the rear of the cable gland adaptor.



Step 3:

Assemble the hex nut onto the adaptor and tighten using a spanner.





AMPHENOL CORPORATION Amphenol Industrial

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http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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