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3. Series Adapters



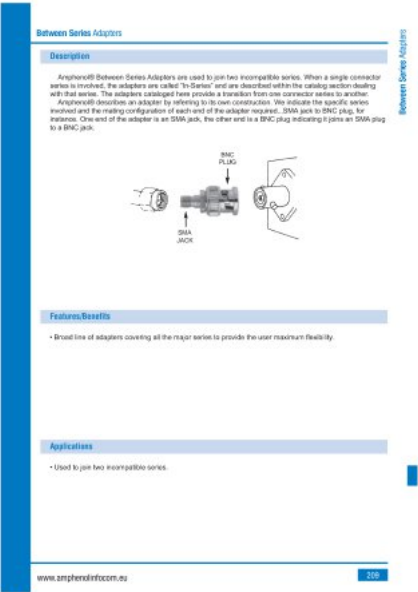
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Series Adapters

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产品目录摘要



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阅读PDF产品目录第2页

Amphenol/安费诺 所有产品目录和PDF技术手册

1.

INDUSTRIAL AMPHENOL
Heavy Connect

Amphenol Sine Systems, USA
Amphenol Tücher Industrial, Germany

www.amphenol-sine.com

em eco|mate® Family Overview

The **ecomate®** Family of circular, multiway connectors provide an IP65-6K rating range (in mated condition) for indoor/outdoor industrial applications and feature robust, durable plastic or metal designs with either bayonet or crimp coupling systems. With a current rating range of 5 to 300A across the individual series, the **ecomate®** Family is perfect for **Factory Automation, Industrial, Heavy Equipment, Heavy Duty, Transportation, and Entertainment/Lighting** markets.

IP Rating	IP65	IP67	IP68	IP69K
Available Shell Size	3 Shell Sizes	3 Shell Sizes	3 Shell Sizes	1 Shell Size
Insert Arrangements	11 Insert Arrangements	22 Insert Arrangements	22 Insert Arrangements	4 Insert Arrangements
Approvals	VDE, UL and CSA	UL ETL and ENEC	UL ETL and ENEC	VDE, UL, UL Recognized, CSA
Materials	Thermoplastic (UL94 V-0)	Thermoplastic (UL94 V-0)	Thermoplastic (UL94 V-0)	Thermoplastic (UL94 V-0)
Construction	Stamped & Formed	Stamped & Formed	Stamped & Formed	Stamped & Formed
Termination	Bayonet, Press-Fit, Crimp	Bayonet, Press-Fit, Crimp	Bayonet, Press-Fit, Crimp	Bayonet, Press-Fit, Crimp
Coupling System	Bayonet	Bayonet	Bayonet	Bayonet
Amperage	Up to 60A/300V	Up to 60A/300V	Up to 60A/300V	Up to 60A/300V
Operating Temp.	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C

em eco|mate® Family

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ecomate® Family Overview

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2.

INDUSTRIAL AMPHENOL
Heavy Connect

Amphenol Sine Systems, USA
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DM Dura|Mate™ AHDP

Plastic Circular Connectors
for Heavy Duty Applications

Available in Size 24 with 11 Insert Arrangements (7, 9, 18, 19, 21, 23, 27, 29, 31, 35 and 47)
Available in Size 18 with 6 Insert Arrangements (2, 6, 8, 14, 20 and 21)

The Dura|Mate™ AHDP environmentally-sealed, multi-pin, heavy duty, plastic, circular connector series provides an economical quick-connect bayonet locking system manufactured to withstand the challenges and complexities of harsh environment off-road applications.

- 3-row bayonet design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- Operating temperature range: -55°C to +125°C
- High current configurations incorporating revolutionary RADLOCK contacts
- High strength impact resistant & lightweight thermoplastic housing
- Low insertion force stamped terminals offer improved manufacturing efficiencies
- Standard included Press-Fit Adapter provides maximum access to rear terminal and improved serviceability
- Environmentally sealed and engineered rapid and secure mating system achieves IP67/IP9K protection (in mated condition) from ingress of dust, water, mud and other contaminants, shock, vibration, oil/solvent
- Bayonet lockers consisting of double high temperature silicone provide barrier from lubricating oil, hydraulic fluid and fuel leaks
- Back shell molding is compression fit design to meet maximum pullout force and backshell strain relief for selected cable ranges
- Offers a better standard contact system
- Wire entry sealing available in three receptacle ranges for discrete wire applications

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Dura|Mate™ AHDP

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3.

INDUSTRIAL AMPHENOL
series solutions

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BL BoardLock™ Family

Available in 2, 3, 4, 6, 8, 12 and 13 Position

Amphenol Sine Systems' **BoardLock™ Family** combines flanged or flangeless, 180° straight or 90° right angle pin-oriented, wire-to-board versatility with the proven reliability of the A Series™ environmentally-sealed thermoplastic connector system with a maximum current rating up to 25A. Resulting in a compact, durable, low profile and lightweight design, perfect for power or data signal applications in Heavy Equipment, Transportation, Industrial, Off-Road and Marine Environments. All **BoardLock™** product lines accept A Series™ components and are compatible with other industry standard mating connectors.

Potential Applications
Power & Signal Connectivity, Data Acquisition, HVAC Systems, Farming Implementation, Boating, Sealed Environments

Features

- Flanged or Flangeless
- 180° Straight or 90° Right Angle Pin Orientation
- Snap-Lock or Screw-Lock Mounting
- Potted or Unpotted

BoardLock™ Family Specifications Overview

Position	2, 3, 4, 6, 8, 12, and 13	Mating Cycle	10 Cycles
Gender Mating	Unmated (2A) / Mated (2A)	Operating Voltage	20 VDC
Pin Orientation	180° Straight or 90° Right Angle	Sealability	80-core Rubber (depending on series)
Mounting Type	Snap-Lock or Screw-Lock	Temperature Range	0°C to +120°C (at rated current)
Pin	Flange or Flangeless (See individual series)	Shock	No shock dampening or discontinuity shall be the result when subjected to 50 g on each of three axes (X, Y & Z)
Conductive Housing	Copper Alloy-Coated, Nickel or Tin Plating	Normal Shock	Subjected to 10 cycles at 50°C to +120°C with no cracking, chipping or other damage detrimental to the normal operation of the connector
Conductive Mount	See individual series specifications	Vibration	Continuous vibration without degradation to mechanical or physical ability, not following an initial 100-hour conditioning (2 g, 10 line series or 10/100/10)
Conductive Connector	See individual series specifications		
Conductive Cable	Insulated, PVC JST		
Insulation Value	Meets or exceeds 1000 V with insulation		
Humidity/Altitude	Thermoplastic/Highly Sealed		
Insulation Resistance	100 megohm minimum at 25°C		
IP Rating	IP67 (mated condition)		
Sealing Options	Available in 4, 6, 8 and 12 position only		

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BoardLock™ Family

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ARMORIPX™

The Clear Choice for Sealed Enclosures

The Amphenol **Armor IPX™ Clear Sealed Enclosure** provides superior protection for printed circuit boards and electronic control modules in harsh environments and off-road applications. All in a clear, see-through housing. Available in two conditioned enclosure model types: Back Thermoplastic or Ultrathin (Transparent Armor). Simplified installation is accomplished via a rugged tandem through-hole design for ease of mounting and includes optional environmental venting. The **Armor IPX™** electrical interface is established with the compact **A Series™ Header System** featuring universal mating and sealed RP-mated pins. The snap-in headers quickly and securely attach to the **Armor IPX™** enclosure and mate with standard **A Series™** Series (also, **Armor IPX™ Sealed Enclosures** and **A Series™ Header Systems** are compatible with industry standard IDC enclosures).

Key Features

- Interconnectable with industry standard connection
- Optional header configurations - A Series™ Series (2A VIO), A, B, C & D (Kings)
- Rugged tandem through-hole design for ease of mounting
- Snap-in headers establish ease of interface with PCB
- Criss-hatch design increases venting protection
- Resistant to most fluids used in industrial applications

Available Options

- Custom/Blank Headers available to assist in establishing additional connector interface flexibility.
- Venting enclosures (environmental venting)
- Enclosures available in Thermoplastic Back or Ultrathin (Transparent Armor) material
- A Series™ Headers with optional tin or gold-plated pins

Technical Specifications

Temperature Range for Use	Clear Enclosure: -40°C to +120°C Back Enclosure: -55°C to +120°C (Ultrathin (Transparent Armor) Enclosure: -55°C to +120°C) A Series™ Headers: -55°C to +120°C	Material	Clear Enclosure: PC Back Enclosure: PA66 Ultrathin (Transparent Armor) Enclosure: PE A Series™ Headers: PA66
Temperature (ambient)	0°C to 80°C	Test Pin	19 to 18
Temperature (ENV)	0°C to 80°C	Weight	100g (200g +/- 20g peak level) - 110g - 240g
IP Rating	IP67/IP68	Pin	20g - 28 pin
Max. Current (Amps)	2 A @ 80°C (A Series™ Headers)	Pin	18 AWG, Flat Tin or Gold plated (A Series™ Headers)
IP Rating	IP67 (Clear Enclosure Headers)	Mating Material	80 Shore Rubber (A Series™ Headers)
Storage Resistance	>1000 MΩ (A Series™ Headers)	Seal	Criss-hatch
Insulation Resistance	>1000 MΩ @ 100 VDC (A Series™ Headers)		
Current Carrying	300 W (A Series™ Headers)		

A Series™ Family

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ARMORIPX™

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https://pdf.directindustry-china.cn/pdf-en/amphenol/series-adapters/25046-876039.html

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series solutions

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PB

POWERBOSS™ M29

Three-Phase Control Power
Receptacles and Cable Assemblies



Amphenol Sine Systems continues to build upon an extensive range of factory molded Three-Phase and Control Power industrial connectivity with the new **PowerBoss™ M29** 25A/29A 800V cable media, ideally suited for quick connection of distributed motor controllers, industrial automation applications in which power requirements are exposed to long-term physical stresses, and subjected to liquid or oil. These IP67 protection class connectors provide an alternative to "hard-wiring" ensuring consistent, low resistance connection points reducing downtime, easier maintenance and increased safety.

Applications

- VFD Drive and Motor Connections
- Industrial Conveyors
- Solution Systems
- Material Handling
- Food & Beverage
- Automotive
- Commercial/Industrial Light Displays
- Local Cells
- Pumps
- Solenoid Poles
- Solenoid Operated Valves

Advantages

- Eliminates the need for "pipe and wire" conduit
- Rated for Motor Branch-Circuits
- Meets UL2373/UL2398 for Industrial Machinery / U.S. approved as an assembly
- 43 kV High Fault Rating (SCCR)
- Straight or right angle over molded connector options
- Multiple standard lengths available
- Decreases wiring errors with inherent molded "plug & play" design
- Compact M29 (1.14") slimming minimizes panel space & wiring requirements
- Molded key indicator ensures keyway alignment of mating connector
- Gold over nickel contact plating provides low capacitance design and corrosion resistance
- Superior receptacle-to-wire leads ensure positive mating reliability by preventing conductor pull-out
- High performance, long-lasting plating that maintains low resistance through repeated mate/unmate cycles



Distributed Power & Control
Factory Automation

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POWERBOSS™ M29

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INDUSTRIAL AMPHENOL
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MM

Magna|Mate™ Family Overview

The **MagnaMate™ ATHP Series** is a rugged thermoplastic power connector series featuring the surety and high performance contact technology of RADSOX®. Designed for various "xEV" applications, **MagnaMate™** is IP67 and available in single or two-pole housings with rated current from 20A to 180A. **MagnaMate™** includes optional integrated HVL safety features and EMI shielding protection which can withstand temperatures ranging from -40°C to +130°C.



Magna|Mate™ ATHP

MagnaMate™ ATHP Standard is designed to withstand the extreme conditions of the trucking, agricultural, mining, construction, and marine industries, and features Amphenol's advanced RADSOX® contact technology.

Potential Applications: Inverters, Power Electric Box, Junction Box, xEV Battery



Magna|Mate™ ATHP Mini

MagnaMate™ ATHP Mini is a compact, low-profile two-pole thermoplastic power connector which features four JE wiring options for multi-polarization. Designed to withstand the extreme conditions of the trucking, agricultural, mining, construction, and marine industries.

Potential Applications: Power Converters, Hybrid Electric Vehicles, Heavy Equipment Electrification, 2 and 3-Phase Motors, Starter Generators, Process Control/Automation



Magna|Mate™ ATHP QL

MagnaMate™ Qi ATHP (Quick Link) connectors compact form factor deliver loads of 130A or 180A for cable outer diameters up to 13.2mm. The definitive front latch design allows for multiple angles of connector engagement providing ease of mating/unlatched mate or confined spaces achieving IP67 ingress protection. The **MagnaMate™ QL ATHP** high-voltage connector system is easy to assemble, cost effective and was developed for use in auxiliary units such as air-conditioning, electrical heating systems, or AC/DC converters, and for battery charging applications. **Qi (Quick Link)** is available in both **Black** and **Orange** housings.

Potential Applications: Electrical Air Condition, Battery Charger, Electrical Heater



A Series Family

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Magna|Mate™ Family Overview

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DuraMate™ AHDM

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Amphenol
ENTERTAINMENT INTERCONNECT CATALOGUE

Amphenol audio catalogue

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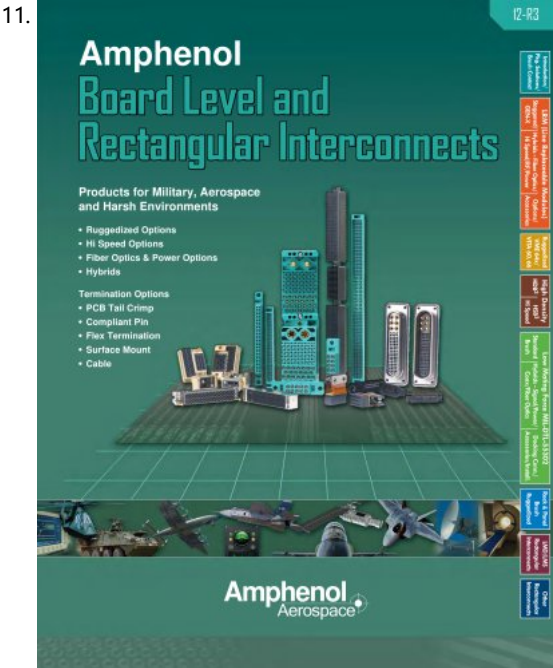
Amphe-Power Connectors with RADSOK technology

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Amphenol Solar Catalog

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Amphenol Board Level and rectangular Interconnects

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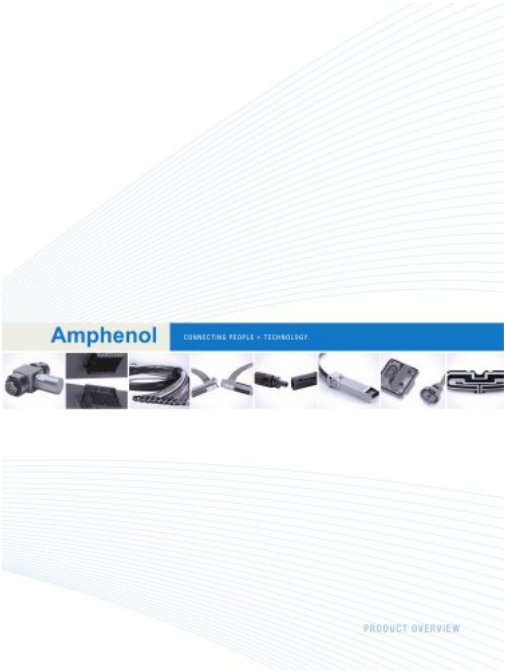
eco|mate® rm
Rugged Metal Shielded Connectors



EcomateRM Amphenol 2015

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13.



Amphenol Product Overview

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RF Switch Brochure

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Amphenol RF QMA Brochure

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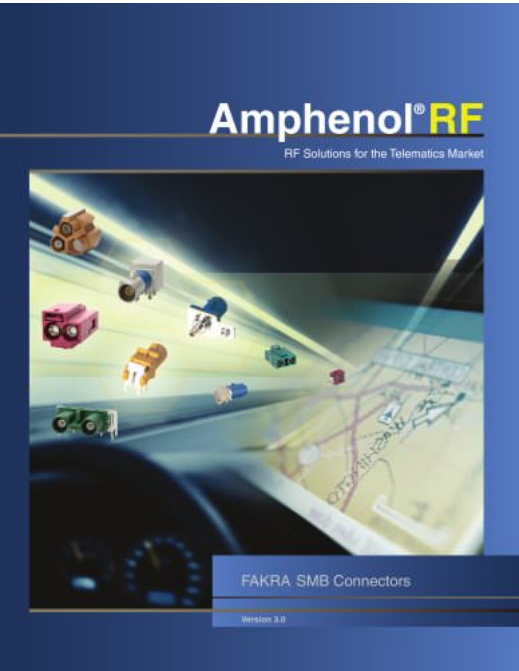
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Amphenol RF HD BNC Brochure

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Amphenol RF FAKRA Catalog

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Amphenol RF 1.0/2.3 Brochure

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中国大陆

对比
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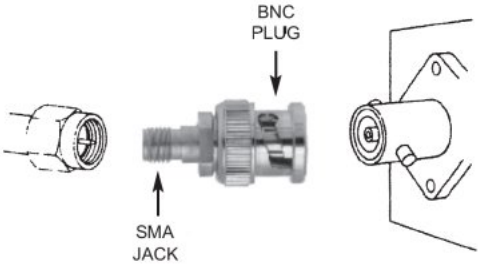
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收藏

Between Series Adapters

Description

Amphenol® Between Series Adapters are used to join two incompatible series. When a single connector series is involved, the adapters are called "In-Series" and are described within the catalog section dealing with that series. The adapters cataloged here provide a transition from one connector series to another. Amphenol® describes an adapter by referring to its own construction. We indicate the specific series involved and the mating configuration of each end of the adapter required...SMA jack to BNC plug, for instance. One end of the adapter is an SMA jack, the other end is a BNC plug indicating it joins an SMA plug to a BNC jack.



Features/Benefits

- Broad line of adapters covering all the major series to provide the user maximum flexibility.

Applications

- Used to join two incompatible series.

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