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3. Magna|Mate™ Family Overview

Amphenol

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Magna|Mate™ Family Overview

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INDUSTRIAL AMPHENOL

Amphenol Sine Systems, USA
Amphenol Tuche Industrial, Germany

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MM

Magna|Mate™ Family Overview

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

**Magna|Mate™ ATHP**

Magna|Mate™ ATHP Standard is designed to withstand the extreme conditions of the trucking, agricultural, mining, construction, and marine industries, and features Amphenol’s advanced RADSOK® contact technology.

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

**Magna|Mate™ ATHP Mini**

Magna|Mate™ ATHP Mini is a compact, low-profile two pole thermoplastic power connector which features four (4) keying 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™ QL ATHP QL**

Magna|Mate™ QL ATHP (Quick Lok) connectors compact form factor deliver loads of 130A or 180A for cable outer diameters up to 15.2mm. The definitive front latch design allows for multiple angles of connector engagement providing ease of mating in blind mate or confined spaces achieving IP67 ingress protection. The **Magna|Mate™ QL ATHP** high-voltage connector system is easy to assemble, cost effective and was developed for use in ancillary units such as air-conditioning, electrical heating systems, or AC/DC converters, and for battery charging applications. **QL (Quick Lok)** is available in both **Black and Orange housings**.

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



A Series Family

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产品目录摘要

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www.amphenol-sine.com Individual MagnaMate™ Series Comparison Chart Magna|Mate ATHP Magna|Mate ATHP Mini Sample Part Numbers Current Rating Operating Voltage Contact Resistance 48 HR Salt Spray Test Keying Options Temperture Range Seal Material 50 Cycles Silicone Rubber Contact Material Copper Alloy/Various Plating Options Available No cracking, chipping or leaking after 20 test cycles from: Thermal Cycle Fluid Resistance Black, Orange Mating Cycles No unlocking or unmating. Exhibits no mechanical or physical damage after sinusoidal vibration levels of 20G’ s at 10 to 2000 Hz in each of the...

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Amphenol/安费诺 所有产品目录和PDF技术手册

1.

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. 300A 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.

300A JACK BNC PLUG

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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Series Adapters

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2.

INDUSTRIAL AMPHENOL
Heavy-Duty Connectors

Amphenol Sine Systems, USA
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em eco|mate® Family Overview

The **ecomate®** Family of circular, multiway connectors provide an IP65-IP67 rating range (in polluted conditions) for indoor/outdoor industrial applications and feature robust, durable plastic or metal designs with either bayonet or threaded 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.

ecomate C16

ecomate RM

ecomate AMPUS

ecomate Plastic

IP Rating	IP65	IP67	IP67	IP67
Available Shell Sizes / Pin Arrangements	3 Shell Sizes / 11 Pin Arrangements	3 Shell Sizes / 20 Pin Arrangements	3 Shell Sizes / 20 Pin Arrangements	3 Shell Sizes / 4 Pin Arrangements
Application	YOE, G- and CSA	UL ETCB & ETCB	Pending UL ETCB & UL ETCB	YOE, SV, UL Recognized CSA
Material	Thermoplastic (UL94 V-0)	Reinforced Nylon	Thermoplastic (UL94 V-0)	Thermoplastic (UL94 V-0)
Contacts	Stamped & Plated	Stamped & Plated	Stamped & Plated	Stamped & Plated
Termination	Twisted (Pins), Crimp	Twisted (Pins), Crimp	Twisted (Pins), Crimp	Twisted (Pins), Crimp
Current Rating	Up to 300A	Up to 300A	Up to 300A	Up to 300A
Operating Temp.	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C	-40°C to +125°C

NOTE: ecomate® RM provides a two (2) degree protection level. The standard product IP67, and ecomate® AMPUS (IP67), Example: PL ETCB-40H45G-05

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ecomate Family

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ecomate® Family Overview

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INDUSTRIAL AMPHENOL
REACTIVE CONNECTION

Amphenol Sine Systems, USA
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DM

Dura|Mate™ AHPD

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)

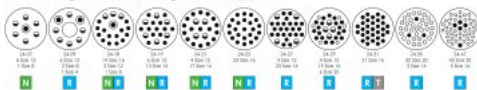
Available in Size 18 with 6 Insert Arrangements (2, 4, 6, 8, 14, 20 and 21)

The Dura|Mate™ AHPD 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.

- Three-wire (cable) design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- Operating temperature range: -55°C to +125°C
- High current configuration incorporating revolutionary RADIOD® contacts
- High strength impact resistant & lightweight thermoplastic housing
- Low insertion force stamped terminals offer improved manufacturing efficiencies
- Standard 360° Bayonet Thread Locking 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
- Sealing features consisting of durable high temperature silicone provide barrier from lubricating oil, hydraulic fluids and fuel fuels
- Back shell resistant to compression fit design to resist maximum pullout forces and locktime strain relief for jacketed cable ranges
- Utilizes A Series™ standard contact system
- Wire entry sealing available in three separate ranges for discrete wire applications

IP67

IP69K



Control Legend



Signal Legend



AlSeries Family





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Dura|Mate™ AHPD

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REACTIVE CONNECTION

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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 connection system with a maximum current rating up to 25A. Featuring a compact, durable, low-profile and lightweight design, perfect for power or data signal applications in Heavy Equipment, Transportation, Industrial, Off-Road and Harsh 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

IP67

BoardLock™ Family Specifications Overview

Position	2, 3, 4, 6, 8, 12 and 13	Mating Method	180° Bayonet
Current Rating	14AWG 7.5A / 3AWG 15A / 16AWG 25A	Operating Voltage	250 VDC
Pin Orientation	90° Straight or 90° Right Angle	Seal Material	Silicone Rubber (depending on series)
Mounting Type	Snap-Lock or Screw-Lock	Temperature Range	-55°C to +125°C at rated current
Pin	Flange or Flangeless (See individual series)	Shield	No, with disengagement or disconnection shall be the result when subjected to 50 g vibration of these test (X, Y & Z)
Contact Configuration	Copper Alloy Contacts Silver or Tin Plating	Thermal Shock	Subjected to 12 cycles of -30°C to +125°C with no cracking, cracking or other damage detrimental to the normal operation of the connector
Connector Thread/Seal	Direct Seal/Seal	Warranty	Connector continually without degradation to mechanical or physical effects, not following in harsh, high acceleration (20 g) or fine sweep (0.0500K)
Shielding Features	Shielded or Unshielded		
Shielding Material	Thermoplastic/Integrated		
Shielding Thickness	100 milg minimum minimum at 25°C		
Shielding Type	RF Shielding		
Shielding Options	Available in 4, 6 and 12 position only		



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BoardLock™ Family

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5.

INDUSTRIAL AMPHENOL
REPAIRS OUTSIDE

Amphenol Sine Systems, USA
Amphenol Tuchel Industrial, Germany

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ARMORIPX™

The **Clear Choice** for Sealed Enclosures

The Amphenol **ArmorIPX™ 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 standard enclosure molded types: Black Thermoplastic or Ultrathin (transparent Ambral). Simplified installation is accomplished via a rugged tandem through-hole design for ease of mounting and includes optional environmental venting. The **ArmorIPX™** electrical interface is established with the compact **ATM™ Header System** featuring industrial latching and sealed IP-mated pins. The snap-in headers quickly and securely attach to the **ArmorIPX™** enclosure and mate with standard **ATM™ Series** (400). **ArmorIPX™ Sealed Enclosures** and **ATM™ Header Systems** are compatible with industry standard IDC enclosures.

Key Features

- Interconnect with industry standard connection
- Optional header configurations: ATM™ Series 24 (V), 16 (A, B, C & D) and 12
- Rugged tandem through-hole design for ease of mounting
- Snap-in headers establish ease of interface with PCB
- Crisp latch design increases venting protection
- Resistant to most fluids used in industrial applications

Available Options

- CustomBore Headers available to assist in establishing additional connector interface flexibility
- Vented enclosures (environmental venting)
- Enclosures available in Thermoplastic Black or Ultrathin (transparent Ambral) materials
- ATM™ Headers with optional 40 or 60-pin plated pins

Technical Specifications

Temperature Range	Case: Ambrose: -40°C to +120°C Base: Ambrose: -40°C to +120°C Ultrathin (transparent Ambral): End: -50°C to +120°C ATM™ Headers: -20°C to +120°C	Headers	Case Enclosure: ATC Base Enclosure: PMS Ultrathin (transparent Ambral) Enclosure: PB ATM™ Headers: PMS
Temperature (Internal)	55°C	Sealing	No leak
Temperature (Amb)	55°C	Resistance	1000 MΩ - 100 GΩ peak level - RTG - 24 hr
IP Rating	IP67	Shielding	Shield - 20 pF/cm
Max. Current (ATM)	1 A @ 80°C (ATM™ Headers)	Pin	16, 24, 28 or 40 (ATM™ Headers)
Max. Current (Base)	1 A @ 80°C (Base Headers)	Sealing Material	Sealing Rubber (ATM™ Headers)
Conductor Material	1.4 mm (ATM™ Headers)	Base	Aluminum
Conductor Material	1.4 mm (Base Headers)		
Conductor Material	1.4 mm (Base Headers)		
Current Carrying	See Pin (ATM™ Headers)		

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ARMORIPX™

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INDUSTRIAL AMPHENOL
REPAIRS OUTSIDE

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Amphenol Tuchel Industrial, Germany

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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 this new **POWERBOSS™ M29** 25A/250V 400V cable made, 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 liquids or oils. These IP68 protection class connection 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
- Forklift Systems
- Material Handling
- Food & Beverage
- Automotive
- Commercial/Industrial Light Displays
- Load Cells
- Pumps
- Solar Panels
- Solenoid Operated Valves

Advantages

- Eliminates the need for "tape and wire" conduit
- Rated for Motor Branch Circuits
- Meets UL2277/UL2278 for industrial machinery / UL approved as an assembly
- 65 kV High Fault Rating (SCCR)
- Straight or right angle over-molded connector options
- Multiple standard lengths available
- Decreases wiring errors with inherent molded "plug and play" design
- Compact M29 (1.147") saving 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 assure positive mating reliability by preventing conductor pull-out
- High performance, long-lasting plating that maintains low resistance through repeated mate/unmate cycles

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POWERBOSS™ M29

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Dura|Mate™ AHDM

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Amphenol
ENTERTAINMENT INTERCONNECT CATALOGUE

Amphenol Australia Pty Ltd

Amphenol audio catalogue

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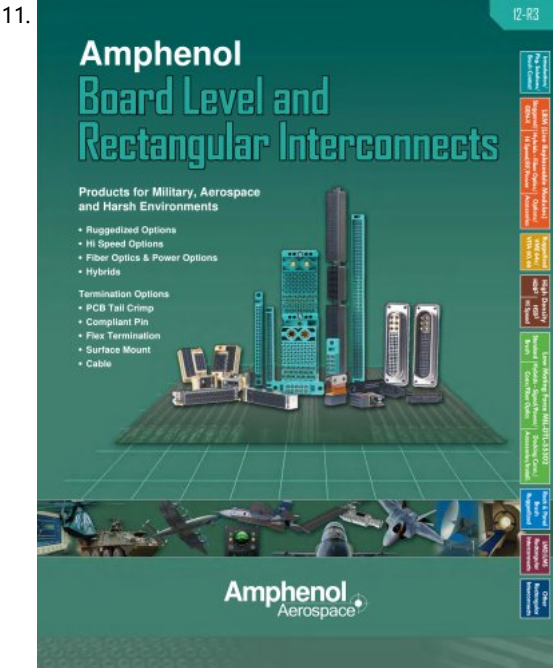
Amphe-Power Connectors with RADSOK technology

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Amphenol Solar Catalog

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Amphenol Board Level and rectangular Interconnects

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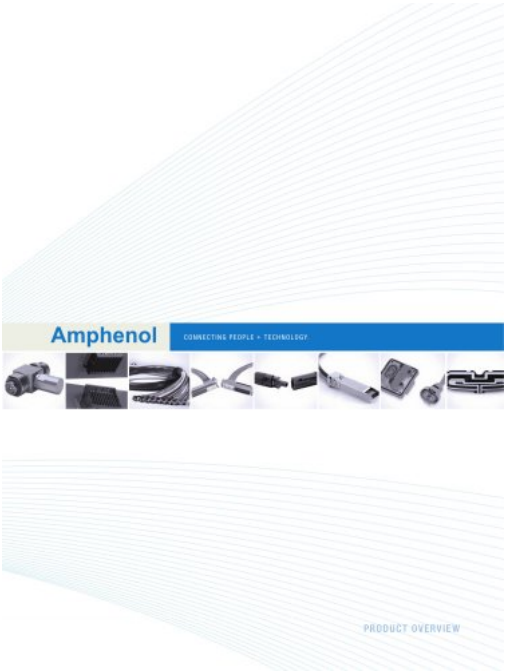
eco|mate® rm
Rugged Metal Shielded Connectors



EcomateRM Amphenol 2015

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Amphenol Product Overview

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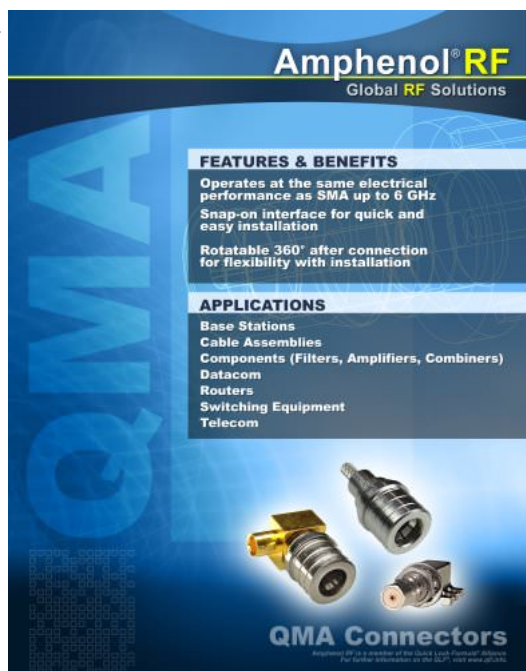
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RF Switch Brochure

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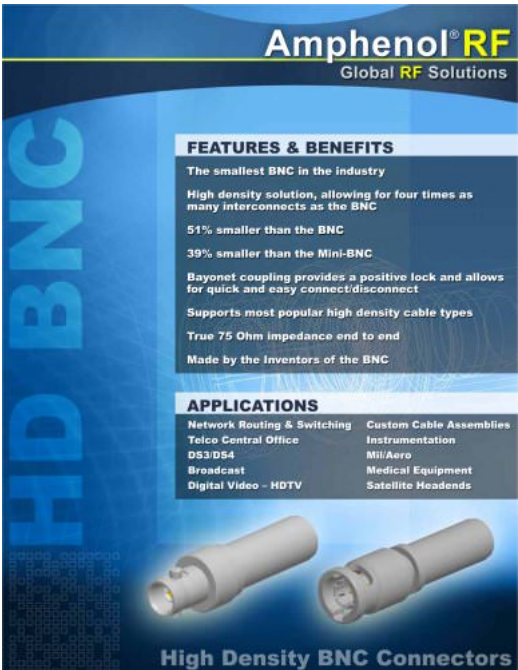
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Amphenol RF QMA Brochure

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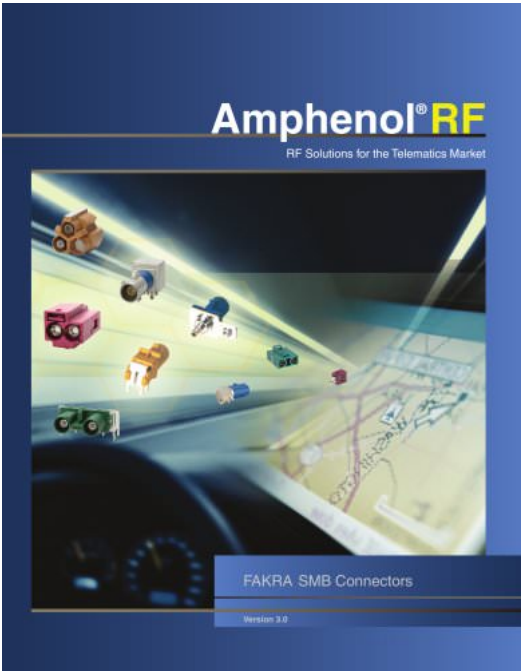
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Amphenol RF HD BNC Brochure

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Amphenol RF FAKRA Catalog

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Amphenol RF 1.0/2.3 Brochure

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对比多达10种产品

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



A ASeries™ Family



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