

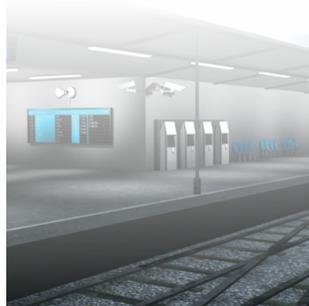
Amphenol

Connecting People & Technology

RAILWAY INTERCONNECT



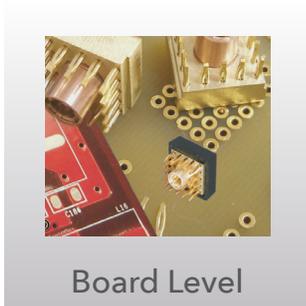
Circular



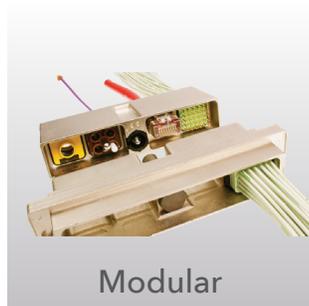
Heavy Duty



Rectangular



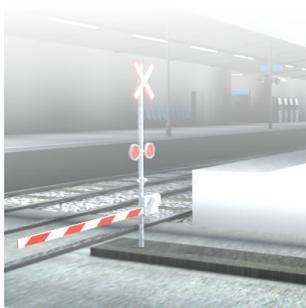
Board Level



Modular



Plastic



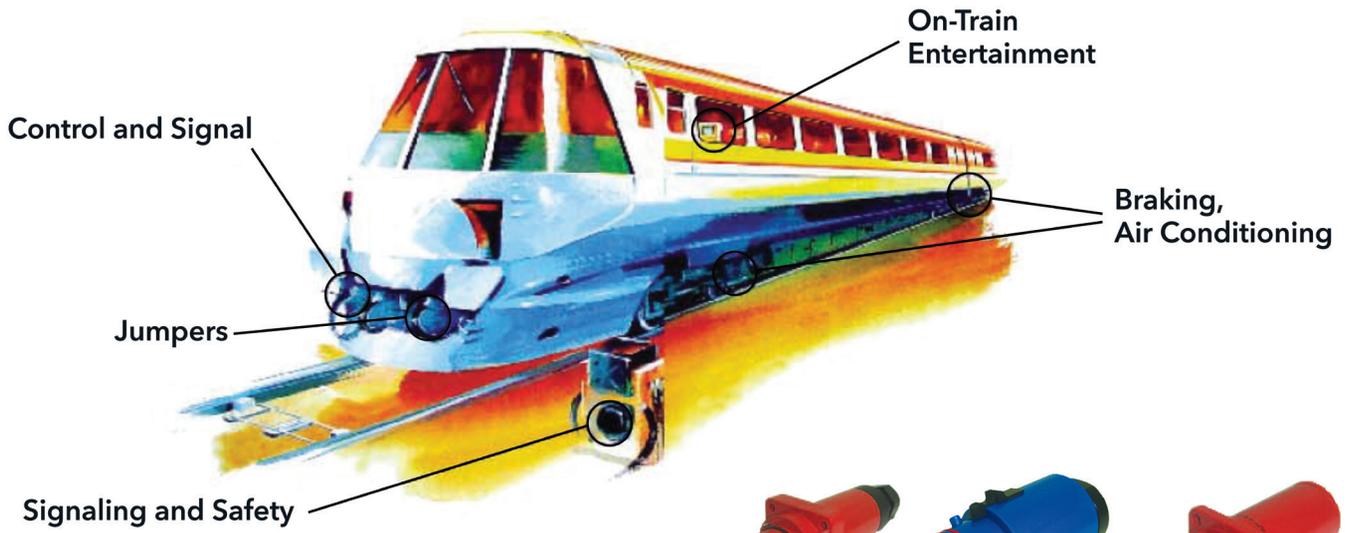
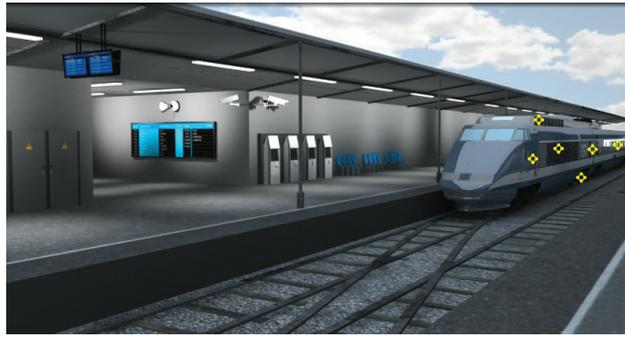
Intervehicle Jumpers

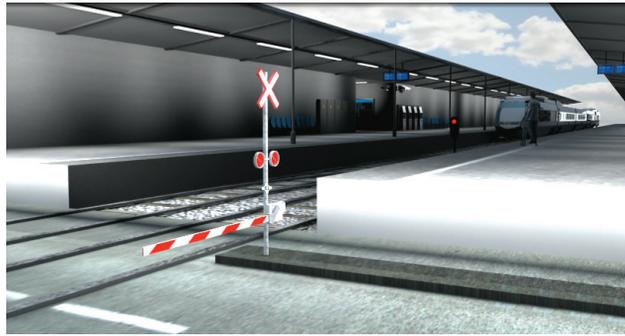


RF Solutions



Custom Solutions





IRIS

Certification

ISO 9001
ISO/TS 16949
ISO 14001





Circular Connectors

- ADGC Bayonet coupling connectors
- High Tension Connectors
- MS/97/97B MIL-DTL -5015
- GCA / VG95234
- PT/62IN 26482 Series I
- Matrix MIL-DTL-26482
- IMB1 26482 Series 2
- TV/SJT MIL-DTL-38999
- Rack & Panel RNJ
- ECTA
- Digital Network Solutions
- High Speed Solutions
- Hermetic Connectors
- Circular C091
- Fiber Optic Solutions
- Microminiature Connectors
- Backshells
- Ecomate® rm
- High Amperage Ecomate® rm with RADSOK® Technology
- M23 Series Connectors
- M40 Series Connectors



Connecting you to
the broadest range
of interconnection
products in the
marketplace



ADGC BAYONET COUPLING CONNECTORS

ADGC Bayonet coupling connectors in accordance with VG95234, well known as Amphenol ADG bayonet connectors, are basically MIL-C-5015 type connectors. They are used principally in the transit rail industry and heavy applications; main characteristic is the fast and precise coupling of the receptacle and plug connectors.

They withstand exposure to moisture, oil and vibration. Bayonet lock coupling.

ADG series connectors meet the performance most subway coupler applications.

Shells:

- Five shell styles
- Fourteen shell sizes
- Solder or crimp contacts, sizes 16-0 accepting 22-0 AWG.
- Five class designations
- Alternate insert positioning

Contacts:

- Pins and sockets are machined from copper alloy with silver plated finish.
- Size 16 and socket contacts incorporate a closed entry design.

Insulators:

- Inserts are resilient synthetic rubber for ADG series, and chloroprene rubber for ADGC series offering high dielectric strength, high arc resistance arc to vibration.
- Proprietary design permits pressurization of pin or socket insert.



AMPF Box mounting Receptacle



AMLM Straight Plug



HLPF Box mounting Receptacle



HLLM Straight Plug



SLPF Box mounting Receptacle



SLLM Straight Plug

HIGH TENSION CONNECTORS

1. Introduction

Amphenol "AMHTC" high tension connector series for railway vehicle installable power distribution systems, offers the ultimate in safety and reliability under the most severe operating conditions.

The AMHTC series connectors allow the user to connect electrical equipment quickly with ultimate safety.

AMHTC is available in two standard formats, which allow complete hook up through the standard daisy chain principle.

2. Features

- Dead front contacts: An insulated tip on the contact element prevents accidental touching of current carry parts. Both the male and female contacts are protected.
- Super High impact Insulators: High impact, flame retardant thermoplastic insulators prevent impact and abrasion damage through continued use in harsh environment applications and also guarantee a high degree of insulation, with maximum resistance to oil, acids and water.
- Water proof when mated: Sealing is guaranteed through IP rated interfacial and cable gland compression seals. Connectors when mated are rated at up to IP67.



Wall Mounting Receptacle



Cable connecting Receptacle



Box Mounting Receptacle



Straight Plug



Right Angle Plug

**MS/97/97B MIL-DTL -5015****Shells:**

Shell components are fabricated from high grade aluminum alloy.

Electrically Zinc plate finish with an olive drab chromate after treatment offers corrosion resistance.

Contacts:

Pins and sockets are machined from copper alloy with silver plated finish.

Size 16 and 12 socket contacts incorporate a closed entry design.

Inserts:

Inserts are resilient synthetic rubber, offering high dielectric strength, high arc resistance to vibration.

Proprietary design permits pressurization of either pin or socket insert.

Features for 97B reverse bayonet coupling connectors with Mil-C-5015 insert patterns:

- Quick positive coupling
- Waterproof
- No lockwiring required
- High shock and vibration capabilities
- Operating temperature range with Neoprene inserts: -55°C to +125°C
- Insert available in Neoprene material (alternate inserts materials available upon request)
- Available in both crimp and solder terminations
- Contacts available in gold and silver plating
- Zinc alloy plating (cadmium free) available 500 couplings minimum
- Rugged construction; aluminum or stainless steel components
- Intermateable with existing VG95234 connectors

GCA / VG95234

Circular metallic connector approved VG95234, perfectly suited for harsh environment applications. Reverse bayonet fast coupling Excellent grounding performances with grounding ring and back shell. Current rating: 8 to 245A. Metric or AWG contacts in Crimp or solder version. Temperature range : -55°C to +125°C High resistance to vibrations and shocks. Full range of back shells.

**PT/62IN 26482 Series I**

Amphenol MIL-DTL-26482, Series I Connectors are miniature circular connectors with three-point bayonet-coupling and five-key polarization, solder type, Amphenol form PT, Amphenol low cost form 62IN, these connectors are widely used in applications calling for quick disconnect connectors.

**IMB1 26482 Series 2**

IMB1 connectors are the low cost product line of MIL-DTL-26482, Series 2 connectors. Instead of coding MS347.. the part numbers start configuring IMB1. These connectors are the same as Matrix MIL-DTL-26482.

**Matrix MIL-DTL-26482**

Amphenol offers the Matrix product line of MIL-DTL-26482, Series 2 Connectors. This series provides a bayonet coupling connector with crimp rear insertable, rear releasable contacts.

- Bayonet coupling connector with crimp rear insert, rear release contacts.
- Medium size, environmentally resistant connector
- Shells size 8 to 24. Contact sizes 20, 16, and 12.
- Recommended operating voltage to 1,000 VAC (RMS) at sea level
- Quick positive coupling assured by 3 point bayonet coupling system
- 34 insert patterns available from 3 to 55 circuits
- Various finishes are available

**TV/SJT MIL-DTL-38999**

MIL-DTL-38999 Series III Connectors offer the highest performance capabilities for both general duty and severe environment applications, both in original MIL specified and Amphenol coding TV/CTV series with threaded coupling, scoop-proof features. Al alloy, composite, stainless steel, marine bronze, durmalon and RoHS versions available.

SJT connectors combine unique design features of the scoop-proof LJT series within standard mounting dimensions of JT types. Available in a wide range of shell sizes, finishes, insert arrangements and accessories.



Rack & Panel RNJ

Rack & panel connection Floating system which provides correction and adjustment to misalignment problem between plug and receptacle during mating. Derived from MIL STD 38999. Large number of inserts available to accommodate signal and power contacts: 7 shell sizes and up to 128 contacts. Version for power application: 1 contact of 230A or 4 contacts 100A.



ECTA

ECTA series : Push Pull locking connectors for quick connect-disconnection. Available in metallic version (ECTA 133) or plastic version (ECTA 544).

ECTA 133:
Signal and Power contacts
(crimp or solder, from 5 to 125A).
8 shell sizes and 16 contact arrangements.
Up to IP 67.

ECTA 544:
stamped-rolled or machined contact
(crimp, from 5 to 25A).
3 shell sizes and 11 contact arrangements.
IP 67 rated.



DIGITAL NETWORK SOLUTIONS

Amphenol provides Ethernet Network Solutions for use in harsh environments, where reliability and resistance to outside influences, such as temperature, shock, vibration, water, dust, etc. are paramount.

Our rugged and durable solutions give you the insurance of a continuous and secure data transmission between all your communication devices in the harshest environments. All Amphenol's RJ-Switch products are tested and certified by an external accredited laboratory.

Amphenol Ethernet switches feature 8 to 28 ports with rugged connectors to interconnect terminal devices within armored vehicles, such as rugged PCs, screens, radios, with high data transmission (up to 10 Gbps). Designed to operate in armored vehicles and other harsh environments, our Ethernet switches feature mechanical packaging enhancements designed for MIL-STD-810F airborne and ground environmental compliance and high reliability.

The units have been especially hardened to improve waterproofness, impact, and shock/vibration protection, as well as eliminate all moving parts through passive cooling, and interface through MIL-D-38999 circular or RJField connectors.



HIGH SPEED SOLUTIONS

The High Speed Solutions group is one of the fastest growing and most technologically advanced groups within Amphenol. Everyday, the High Speed Solutions team is developing custom connector and cable solutions for High Speed Copper, Fiber Optic, and Integrated applications. As a basic business philosophy, the team is dedicated to concentrating on those advanced and challenging market segments that demand an extraordinary level of supplier support and reaction. Amphenol High Speed Guide is based on the following Protocol Guide:

- Ethernet 10Base-T
- Gigabit Ethernet 1000Base-T
- 10 Gigabit Ethernet 10GBase-T
- USB 2.0
- USB 3.0
- DVI
- Display Port 1.0
- Display Port 1.2
- SATA 1.0
- SATA 2.0
- SATA 3.0
- HDMI





HERMETIC CONNECTORS

Amphenol offers superior electrical performance plus the rugged design of a glass-sealed or epoxy-sealed connector. Amphenol glass-sealed hermetic connectors are available in a wide variety and custom configurations. Amphenol epoxy-sealed connectors are a lightweight alternative to glass-sealed hermetic connectors.



FIBER OPTIC SOLUTIONS

From multiple fiber optic termini options to connectors to custom cable assemblies, Amphenol can provide solutions for virtually any fiber optics need. Amphenol has established the rugged and reliable MIL-DTL-38999 as a common connector shell plavorm that houses a wide variety of fiber optic termini including MIL-PRF-29504 commercial equivalent, HDF20, ARINC 801 and MT ferrules.



C091

This serie is available as:
 C091A Plastic/metall shells with screw locking (IP40).
 C091B plastic shells with bayonet coupling (IP40).
 C091D full metal shells with screw locking (IP67 and EMI/RFI shielded) also available with 90° PCB contacts.
 All 3 versions can accommodate 3 to 14 contacts. Current rating: up to 5A.





MICROMINIATURE CONNECTORS

Amphenol 2M Micro-Miniature Connector Series product line is designed for interconnect applications requiring high performance and reduced size and weight. This smaller, high density, lightweight connector far exceeds the competition in quality and performance levels. The 2M Series is a superior and versatile connector designed and tested to mil-spec standards, comparable to MIL-DTL-38999. 2M is intermateable with Glenair's Mighty Mouse the test results are available in the Technical Documents area.



Amphenol Terrapin is a miniature series of circular push-pull connectors. Within a rugged shell design Terrapin offers superior EMC performance and is sealed to IP68. Resilient in severe battlefield situations the RoHS compliant black-silver plating is both low-lustre and corrosion resistant. Featuring an optional locking mechanism, multiple shell sizes with up to 37 contacts and suitability for over-moulding, Terrapin is the preferred choice for miniature connectors in military and other harsh environment applications.



BACKSHELLS

Complete range of backshells for all circular connectors is now available from Amphenol now. These backshells are QPL certified to AS85049 standard and any variants of the same could be supported in short lead-time. The full technical details are available from the exclusive website www.backshellworld.com.

In ground and naval application the robustness and the environmental sealing may be more important, where as weight may be prime consideration for space and Aerospace application. Amphenol backshells are available in different types for variety of applications.

- Non-Environmental Backshell
- Environmental Backshell
- Non Environmental EMI/RFI Backshell
- Environmental EMI / RFI Backshell
- Shrink Boot Adapter
- Shrink Boot Nut
- Band Lock Adaptor
- Crimp Adaptor/Ring Backshell
- Quick Clamp
- Strain Relief
- Grommet Nut Backshell



ecomate® rm

- Suitable For Indoor and Outdoor Applications
- EMI/RMI Shielding Capability with Appropriate Backshell
- Operating Temperature: -40°C to +105°C
Operating Temperature: -40°C to +125°C
(for parts with a silicone seal, ending in 03)
- 500 Mating Cycles
- Contacts and Cord Grips Ordered Separately
- High-Density Contact Arrangements Available
- UL ECBT2 Certified



M23 Series Connectors

6, 8, 9, 12, 16 and 17 positions available

- 10A Max Current; 160V (12 pos), 125V (16-17 pos); 18-26AWG (12-17 pos)
- 30A Max Current; 630V Max Voltage; 14-16AWG (6-9 pos)
- High-performance, cost-effective
- Superior environmental seal retention
- Compatible with existing standard products industry-wide .



High Amperage ecomate® rm with RADSOK® Technology

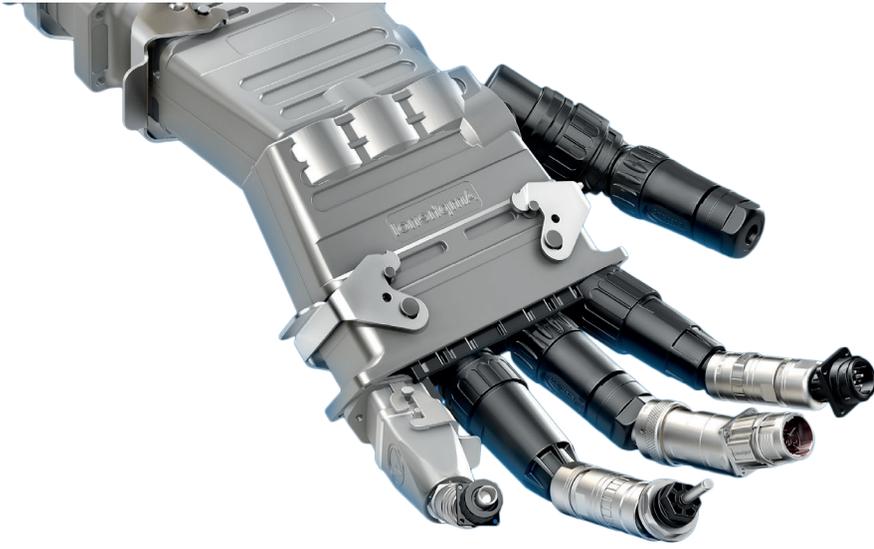
- Single Pole High Power Arrangements
- 3.6mm-10mm Contact Sizes
- Operating Temperature: -40°C to +125°C
- RoHS Compliant
- 4 Shell Sizes
- Operating Voltage: 630V
- Current Rating at 25°C: 86A-300A
- Flammability Rating: UL94-V0
- High Reliability
- Low Contact Engagement / Separation Forces
- Low Contact Resistance
- High Mating Cycle Durability



M40 Series Connectors

6 and 8 positions available

- 75A Max Current; 630V Max Voltage; 8-12AWG
- High-performance, cost-effective
- Superior environmental seal retention
- Compatible with existing standard products industry-wide .



The Heavy Equipment market segment is one of the most demanding markets in the industry that is subject to environmental impacts. It includes agricultural vehicles, construction equipment, commercial vehicles, etc. Amphenol has a wide range of connectors specially made for this market, starting with small sealed signal connectors, and going up to complex high-voltage and high-current solutions. Amphenol is a leading specialist for this market and understands the demands, therefore even customer-specific solutions are no problem for Amphenol to design.

Heavy Duty Connectors



Amphenol gives reliability and quality considerations the top priority.

For this reason we are happy to announce that Amphenol besides the already existing certifications such as

- ISO 9001
- ISO/TS 16949
- ISO 14001

has successfully finished the audit for the

- IRIS Certification





HEAVY|MATE C146

HEAVY|MATE C146 is a Modular Metal Connector Line consisting of:

- Hoods & Housings
- Inserts
- Contacts

FEATURES:

- Hybrid interconnections
- Good costs
- Voltage up to 1000V
- VDE, UL, CSA approvals
- Vibration proof
- High current
- Signal transmission
- High pole sizes
- IP65 to IP68
- Corrosion resistance
- Robust

BENEFITS:

- Indoor & outdoor applications
- A wide range of inserts for signal and power transmission
- A large variety in pole sizes from 3 up to 280 poles per connector
- Current ratings up to 250A per contacts and voltages up to 1000V
- A modular connector system to configure customized solutions

APPLICATION:

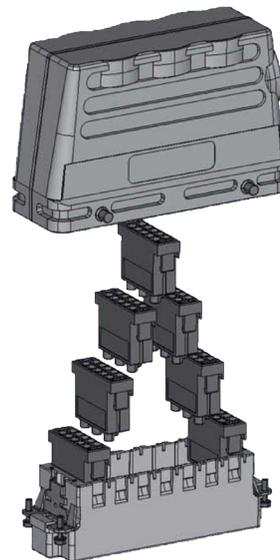
- Connections in harsh environment
- High number of poles or different kinds of signals transmitted
- Power and signal transmission outdoor
- Very safe & quick locking required
- Good EMC protection required



HEAVY|MATE C146 MODULAR

In addition to HEAVY|MATE standard single insert system, Amphenol offers a new modular system that consists of:

- Hoods & Housings
- Frames
- Individually specialized modules
- Contacts



ADDITIONAL FEATURES:

- Fully intermateable with market standards
- Stamped contacts and the Radsok contact technology
- Wide range of Power- and Signal modules
- Large selection of contact-safe male contacts
- Easy Handling
- Robust metal or plastic frame options
- Modules are easy to assemble and disassemble

ADDITIONAL BENEFITS:

- Great cost savings potential
- Pin modules separately protected against mechanical influences
- High flexibility for future developments



Rectangular Connectors



**ENGINEERED
SOLUTIONS
DESIGNED TO FIT**

**Connecting you to
the broadest range
of interconnection
products in the
marketplace**

**D-SUB**

These connectors have been developed to provide a rugged heavy duty interconnection, where size is not a limited factor and large gauge wires can be used because of ribbon contact principle. These connectors have excellent performance features like easy mating, positive contact pressure and self cleaning action. These connectors are polarised.

M2000 Series D Sub Connectors are subminiature rack & panel type with polarized shell & having pin/socket machined contacts which provide high reliability & density for the connectors. They are used in variety of applications due to it's versatile design where weight & dimensions are constraint factor.

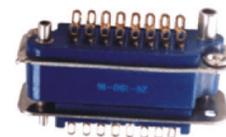
**Rack & Panel RFM Series**

- Blind mate, floating fixing
- High mating / unmating cycles (up to 5000)
- NF F 61-032 approved (Railways)
- Good behavior in vibrations
- Low insertion forces
- Power contacts (8,15, 25, 50, 60Amps)
- Modular: 5, 3 and 2 contacts modules with removable crimp and wire wrap contacts
- Metallic guiding pins

**MICRO-D**

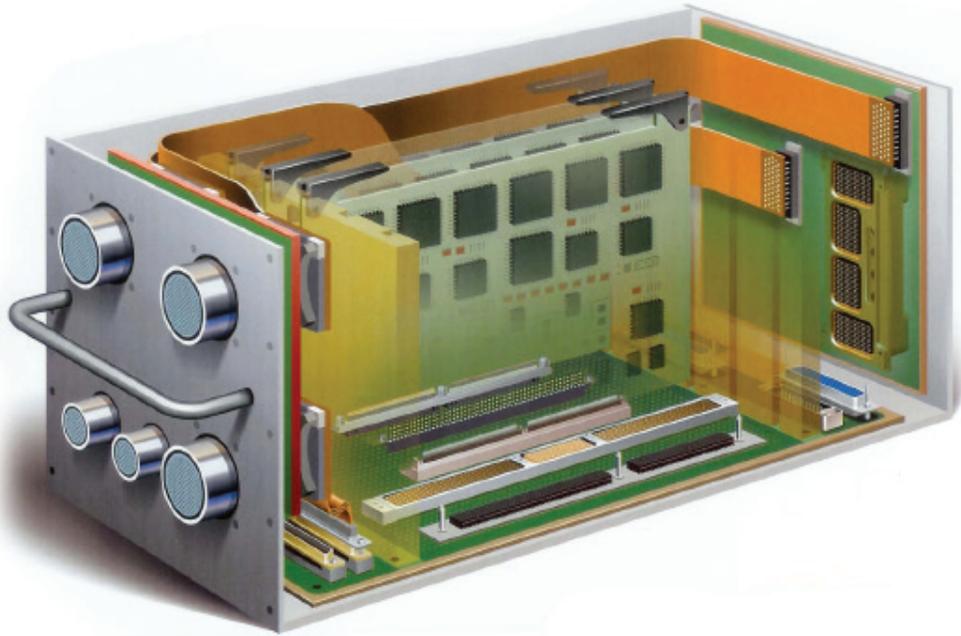
Amphenol Micro-D provide small interconnect solutions, which will exceed the requirements of the US military standard M83513. What differentiates Amphenol from the competition is our overall connector design. Custom solutions can easily be engineered to ensure exact performance in any application.

Amphenol is not limited to the traditional M83513 rectangular connectors but has also developed and produced circular connectors, strip line connectors, PC board connectors, and hybrid connectors utilizing power, signal, coaxial and fiber optics contacts.

**Rack & Panel 26 Series**

These connectors have been developed to provide a rugged heavy duty interconnection, where size is not a limited factor and large gauge wires can be used because of ribbon contact principle.

These connectors have excellent performance features like easy mating, positive contact pressure and self cleaning action. These connectors are polarised.

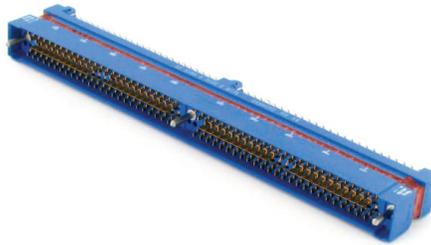


Board Level Connectors

- SIHD
- Hilinx
- HDAS
- SMASH
- R-SATA
- Power To Board
- HDB3 High Density / HSB3 High Speed



Amphenol is the leader in board level interconnection products through its long history of engineering expertise for product solution solving. New and innovative solutions are under development every day within the highly skilled engineering departments who are teamed with marketing product managers and production specialists.

**SIHD****FEATURES:**

Monolithic staggered grid connector, with floating capability feature.

APPLICATIONS:

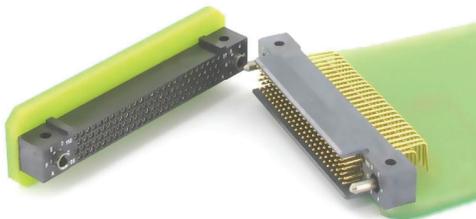
- Radar
- On Board Computer
- Actuator

**HILINX****FEATURES:**

100% modular & hybrid connector. Unique M55302 modular interconnect. System of interlocking signal, power, fiber optics & HF modules.

APPLICATIONS:

- Engine
- Power Unit
- Landing Gear
- Braking System
- Ordnance

**HDAS****FEATURES:**

Monolithic high density PCB interconnect. Provides higher current rate capability, and extreme withstanding to harsh environments.

APPLICATIONS:

- On Board Computer
- Display Unit
- Actuator
- Engine
- Power Unit
- Landing Gear
- Braking System

**SMASH****FEATURES:**

Highly robust advanced SEM E form factor connector. For the most demanding electronic packagings interconnects.

APPLICATIONS:

- Radar
- Engine
- Ordnance



R-SATA

The new (Rugged) R-SATA style connector is perfectly suited as the primary internal storage interconnect for desktop and mobile PCs, connecting the system to peripherals such as hard drives, solid state drives, optical drives, and removable magnetic media drives. The R-SATA supports SATA 3.0 protocol, delivering 6.25 Gb/s data rates & beyond. Amphenol's R-SATA connector utilizes a Micro-Hyperboloid contact with proven performance. The Micro-Hyperboloid contact system offers low insertion and extraction forces, high durability counts and is resistant to shock, vibration and fretting corrosion.



4 body styles for 7 pin & Combo 22 pin arrangements

- Right Angle Plug (Daughterboard)
- Straight Receptacle (Motherboard)
- Right Angle Receptacle (PC)
- Straight Plug - Parallel Boards

FEATURES & BENEFITS:

- Ruggedized SATA style
- Supports SATA 3.0 protocol (6.25 Gb/s) & beyond
- Rugged Micro-Hyperboloid contacts
- Low insertion/extraction force
- 20K mating cycles
- Resistant to shock, vibration & fretting corrosion
- 7 pin SATA & Combo 22 pin R-SATA contact arrangements (two differential pairs, 3 ground)
- Foot print compatible with 3M SATA Connectors



Power to Board

Amphenol **RADSOK**® solution offers options for high current single-point connections with a compact footprint design that can supply up to 120 Amps to the board. The hyperbolic grid contact provides more surface area with many points of contact for heat dissipation at the pin and socket interface. This lowers temperature rise and reduces potential failures. **RADSOK**® Power-to-Board products are designed to be applied manually by press-fit or by a re-flow solder process eliminating the need for additional wires and/or special crimp tools.



HDB3 High Density/ HSB3 High Speed

This new connector series incorporates a higher density contact pattern and lower mated height than Amphenol's standard low mating force rectangular connectors. HDB3 connectors utilize the same durable and reliable B3 brush contact in a tighter .070" X .060" staggered grid pattern.

FEATURES:

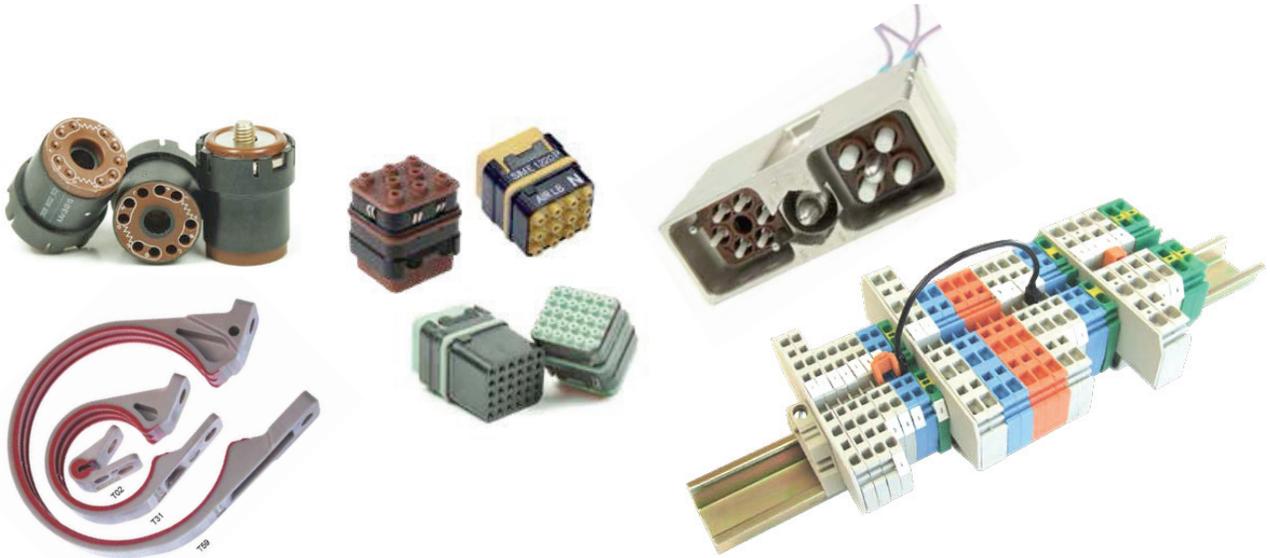
- 100,000 mating cycles
- Operating Temperature of -65°C to 125°C
- 36 unique keying combinations
- HSB3 data rates up to 6.25 Gbps





Modular Connectors

- Metallic Standard SIM Connectors
- ComRailway SIM Splices
- Monomodules SIM Connectors
- Specific SIM Modular Interconnections Unit
- 3559 Push-Pull Connectors
- ASR (Amphenol Snap Rectangular) Connectors
- 1900 / 1977 connectors - EN 3545
- Terminal junction blocks
- Power distribution bars
- Monoblock assemblies
- Quick Junction Modules
- In-Line junctions
- Individual junction terminals
- Relay Sockets Wiring Accessories, Cable Clamps
- Pipe Clamp Assemblies
- Insulating Accessories





Metallic Standard SIM Connectors

FEATURES:

- Standard or shielded versions
- Shells for 2 or 4 modules
- Modules from 1 to 30 contacts + optic
- Contacts size from 8 to 23 + quadrax and specific cts
- 2 mating types : clicker nut or rack panel plug
- 36 keying combinations
- Sealed
- Contacts : MIL-C-39029
- Connectors : EN 4165



ASR (Amphenol Snap Rectangular) Connectors

FEATURES:

- Composite connectors
- Included locking mechanism
- High density
- IP 66
- Multiple contacts arrangements with contacts \varnothing 0,8 and 1



Railway SIM Splices

FEATURES:

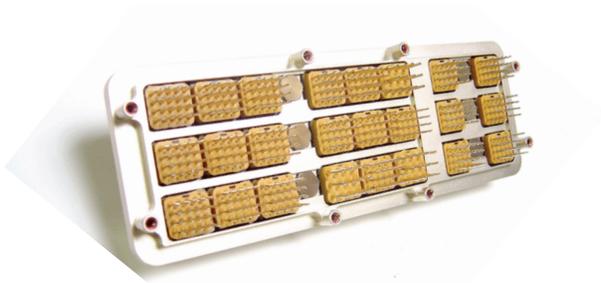
- Composite splice for 1 module
- Available in standard, with or without cable clamp, with or without flange
- Mounted with SIM EN4165 modules
- Modules from 1 to 30 contacts + optic
- Contacts size from 8 - 23 + quadrax and specific cts



Monomodules SIM Connectors

FEATURES:

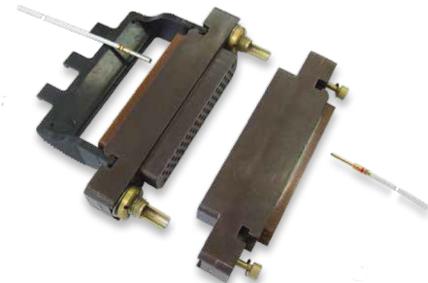
- Composite shell for 1 module
- Mounted with SIM modules
- Modules from 1 to 30 contacts + optic
- Contacts size from 8 - 23 + quadrax and specific cts
- Push-pull locking system
- Sealed
- Metallized or not
- Contacts : MIL-C-39029



Specific SIM Modular Interconnections Unit

FEATURES:

- Fully customized units :
- Form according to space requirements
- Module type, number and arrangements, as required
- Contacts type (according to MIL-C-39029)
- Connectors : derived from EN 4165



1900 connectors - EN 3545

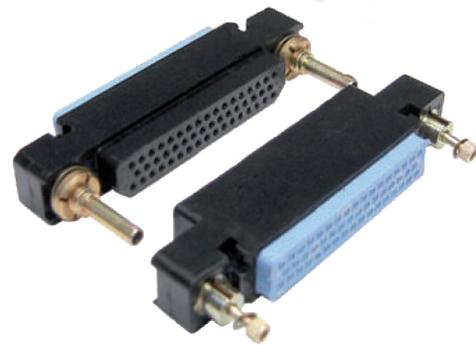
- 5 to 78 cts, cts size from 8 to 22, gauge 8 to 26 AWG
- Arrangements for copper cts (9) and for Aluminum cable cts (3)
- Locking by screw or 1/4 turn
- Up to 36 keying combinations
- Interfacial sealing by compression of a gasket
- Contacts: EN 3155
- Connectors: EN 3545



3559 Push-Pull Connectors

FEATURES:

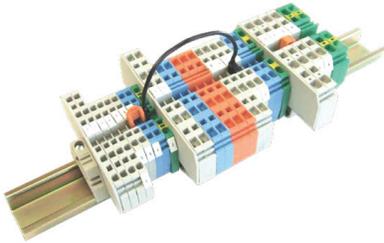
- Mounted with SIM modules
- Multiple arrangements of contacts, size from 8 to 22 + ethernet
- Contacts gauge 8 to 26 AWG
- Contacts : MIL-C-39029, EN 3155, UTE C 93425 or ABS depending on contact types



1977 connectors - EN 3545

- Contacts size 8 to 20, cable section from 0,25 to 6 mm²
- 6 arrangements from 5 to 50 contacts
- Up to 36 keying combinations
- IP 66
- Contacts : EN 3155
- Connectors : from NF F 61-030 (meet the requirements of EN 3545 standard)

TERMINAL BLOCKS



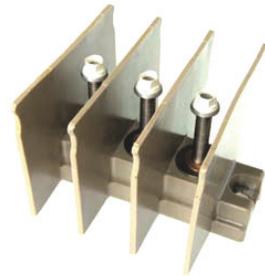
Terminal junction blocks

- Stud type
- Spring clamp
- Fast-on
- Screw type



Power distribution bars

- Bus bars
- Power distribution bars



Monoblock assemblies

- 1300 Series
- 3240 Series
- 3241 Series
- 3242 Series

Quick connection junction modules



Quick Junction Modules

- Junction modules
- Grounding modules
- PCB modules



In-Line junctions

- Mil/Aero in-line junction
- Industrial in-line junction
- In-Line Junctions for Aluminium cable contacts
- SJS

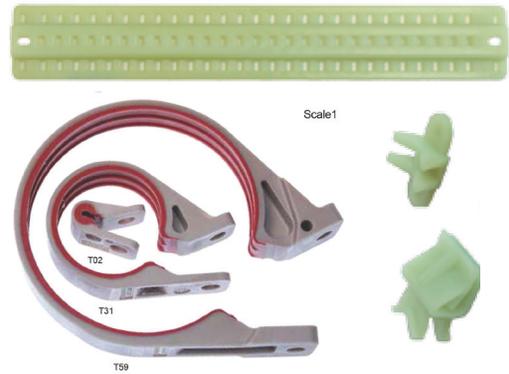


Individual junction terminals



Relay Sockets

- NF C 93422 Relay Sockets
- MIL-S12883 Relay Sockets
- Solder Cup and PCB Relay Sockets
- Airbus-ATR Relay Sockets
- Railway Relay Sockets
- Quick connect Relay Sockets



Wiring Accessories, Cable Clamps

- Mil/Aero Wiring Accessories
- Railway/Industrial Wiring Accessories
- Mil/Aero Cable Clamps
- Railway/Industrial Cable Clamps
- P & Omega Clamps Mil / Aero accessories



Pipe Clamp Assemblies

- On axis or tangential alignment
- ABS or JN0413 series



Insulating Accessories

- Different kind of accessories (needle, washer or rails, for pin, fastener or screws...)
- Variable length, of different thickness
- Fixing on structure (stiffner, frame, skin)
- For acoustical coating, thermal coating and outside finishing coating



Amphenol is the innovator and solution provider for all products that are to be used in the harsh and rugged environments (indoor or outdoor). Amphenol has a big spectrum of rugged and harsh environment interconnects ranging from IP65 to IP69K.



Plastic Connectors



LUMINUS

The Luminus Series are small, cost-effective connectors that are highly reliable and simple to use. With multiple product options to choose from, they meet MIL-T-81714, accept AS39029 & Stamped & Formed contacts, and are environmentally-sealed. Ideal for where space is limited, these innovative connectors feature a locking mechanism that ensures stability, and are suitable for blind-mating.

FEATURES:

- Quick Connect & Blind-Mate
- Multiple keying options
- Environmentally sealed
- Durable
- S&F contacts for non-military applications



Pulse-Lok

Pulse-Lok® connectors have a unique locking coupling system with both tactile and audible confirmation for secure connections as well as quick-release action. These connectors are excellent for medical, factory automation, and instrumentation field applications. Many contact types are available, including signal, power, high-voltage, and Ethernet.

FEATURES:

- Quick release action
- Small package (.500 — 1.2" diameter)
- Tactile confirmation
- 1 to 78 contacts



ECO|MATE

This connector meets the high requirements for applications in industrial technology. Easy operation, reduced dimensions and a more robust design are only a few of the features of the series.

The connector's main area of application is in the fields of plant construction and machine building. The connector is used for measuring and controlling applications as well as for power supply technology. The series is comprised of a large selection of housings and shapes and offers models with screw, solder and crimp termination.

FEATURES:

- Circular Connectors with 3+PE and 6+PE contacts
- Housing components from premium molding material
- Cable housing straight or angled
- IP 65/67 in mated condition (DIN EN 60526)
- Clamping ring or internal strain relief

ADVANTAGES:

- Quick and easy assembly
- Screwed cable gland with clamping ring
- Strain relief and mounted gasket all in one component
- Cable housing, straight or angled, for the cable diameter 6 - 12,5 mm
- Robust thread for the screwed cable gland
- Ergonomically designed product range for safe handling
- Pre-loaded ground contact
- Fastening for the protective caps on the housing of the receptacles



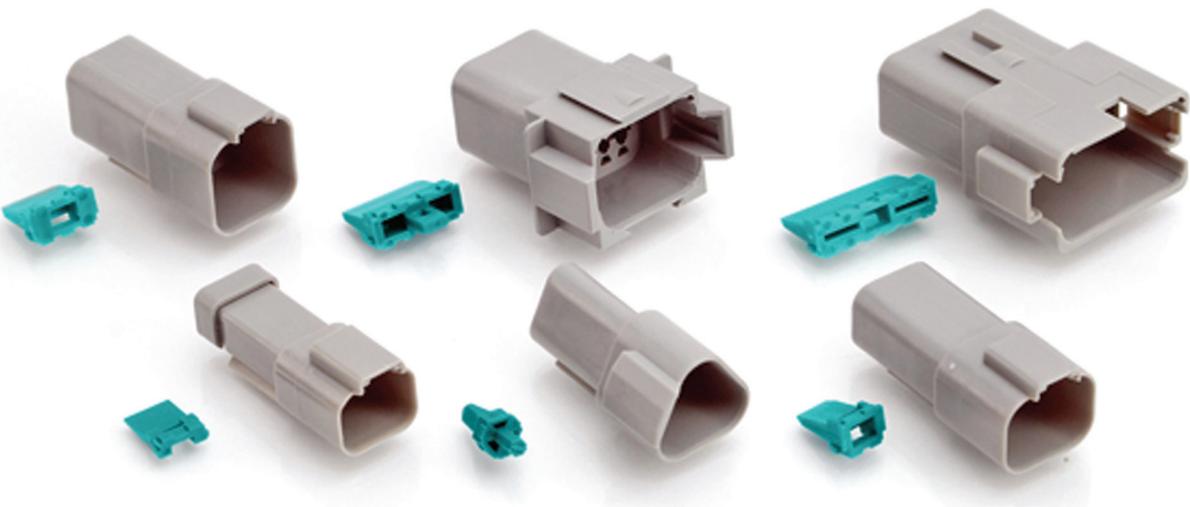
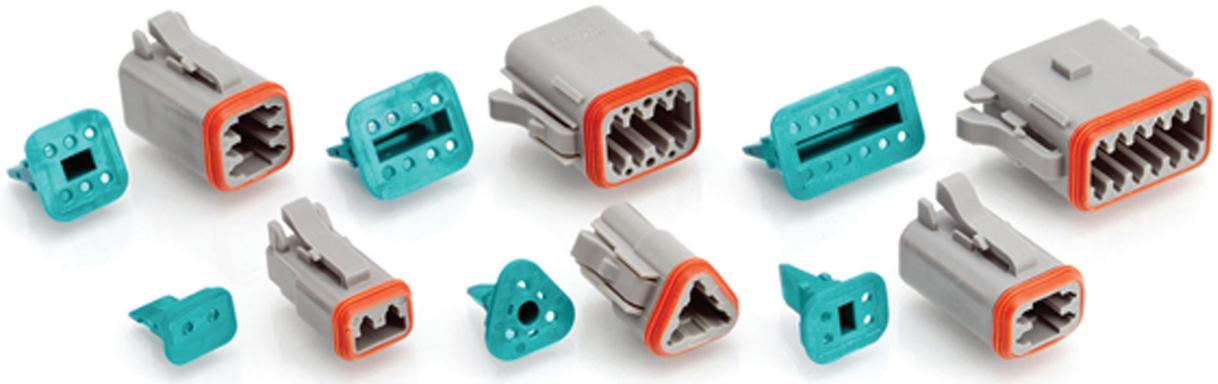
Plastic Waterproof Connector Series

FEATURES:

- Mating Options: Screw Threaded Type, Lock Bayonet Type or Push Lock Type
- Contact options: Stamped, Screw-In, PCB and Solder (up to 30A per contact)
- Receptacle, Receptacle with cable, Over-molded With Cable & Field Installable available
- Insert Arrangement: Variety of configurations are available including:
 - Circular
 - Power
 - Hybrid
 - DVI
 - RJ
 - USB
 - D-Sub
 - HDMI
 - e-SATA
 - Fiber Optic
 - M type Sensor
 - IEEE 1394
- M8/M12 Series meets industry standards (IEC, NMEA2000, DeviceNet, EtherNet, I/P, Profibus & ProfiNet)
- Various sizes, over 1000 items
- UV Resistant
- IP65/66/67/68/69K waterproof (mated or unmated)
- PVC, PUR Jackets available for cables (Sun, Oil Resistant & Flame rated)
- UL/CSA Approval

ADVANTAGES:

- Cost Effective Solution
- High level of customization possibility
- Easy mating



AT Series

2, 3, 4, 6, 8, 12 and 18 positions available

- 14-20AWG, 13A, Size 16
- High-performance, cost-effective
- Superior environmental seal retention
- RockSolid™ Contact technology (optional)
- Compatible with existing standard products industry-wide

ATP Series

2 and 4 positions available

- 10-14AWG, 25A, Size 12
- High-performance, cost-effective
- Superior environmental seal retention capabilities
- Compatible with existing standard products industry-wide

ATM Series

2, 3, 4, 6, 8 and 12 positions available

- 16-22AWG, 7.5A, Size 20
- High-performance, cost-effective
- Superior environmental seal retention
- Compatible with existing standard products industry-wide

Modifications

These modifications are a sampling of the options available

- AT-SR01 & AT-SR02 Series™ Strain Relief Modifications
- End Cap/Rear Seal Modifications
- J-1939 Modifications - Plug, Receptacles & Wedgelocks
- Flange Mount Receptacle Modifications
- Plug & Receptacle Body Color Modification



AHD Series
6 and 9 positions available

- 6 Position: 10-14AWG, 25A, Size 12
- 9 Position: 14-20AWG, 13A, Size 16
- High-performance, cost-effective
- Ideal for controlled/uncontrolled environmental conditions
- Compatible with existing standard products industry-wide



Custom Products
These custom products are a sampling of the options available

- Adapter, 6/12 Pin to RJ45
- LED Option
- AHD™ Jam Mount Diagnostic Receptacle
- AHD Series™ Unsealed Diagnostic Receptacle
- AT Series™ Terminating Resistors and Diodes
- Custom Cable Assemblies



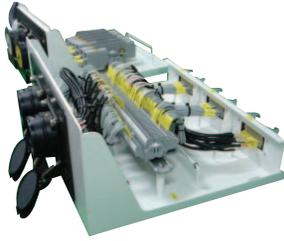
Contacts

- Solid Contacts
- Stamped & Formed Contacts
- Seal Plugs.



Accessories and Tooling

- Field Repair Kits
- Crimp Tools
- Seal Plugs
- AT Series™ Contact and Wedge Removal Tool



Intervehicle Jumpers



By taking advantage of the expertise in connector production, we upgraded our capability to support railway requirements.

Currently our major railway parts are intervehicle jumpers for power and/or signal transmission, junction boxes and harness for traction motor.

We possess designing/engineering capability and resources to satisfy the requirements of railway customers and even those of railway operators. We not only produce and supply those products but we also participate in designing stage with customer and provide optimal interconnection solution.

We have completed various railway projects with our own design and we are ready to propose reliable solution.



FIBRE OPTIC

- Hermaphroditic Mating
- Expanded beam, Lens Design
- Easy Clean
- Easy Maintenance



- Wide range of junction boxes.
- Terminate different types and sizes of cables on the underside and within rail vehicles.
- For very harsh Environmental conditions.
- Busline Box, High Voltage connections, traction motor, DC supply.
- Electrical connections between all types of rail vehicles.
- 5 and 9 Ways.
- 240mm²/400mm² Cables – Receptacle.
- 750 Volts A.C.
- Low Mating Force Contacts.



**Fire NFF16-101/16-102
& BS6853 Vibrations
IEC 61-373**

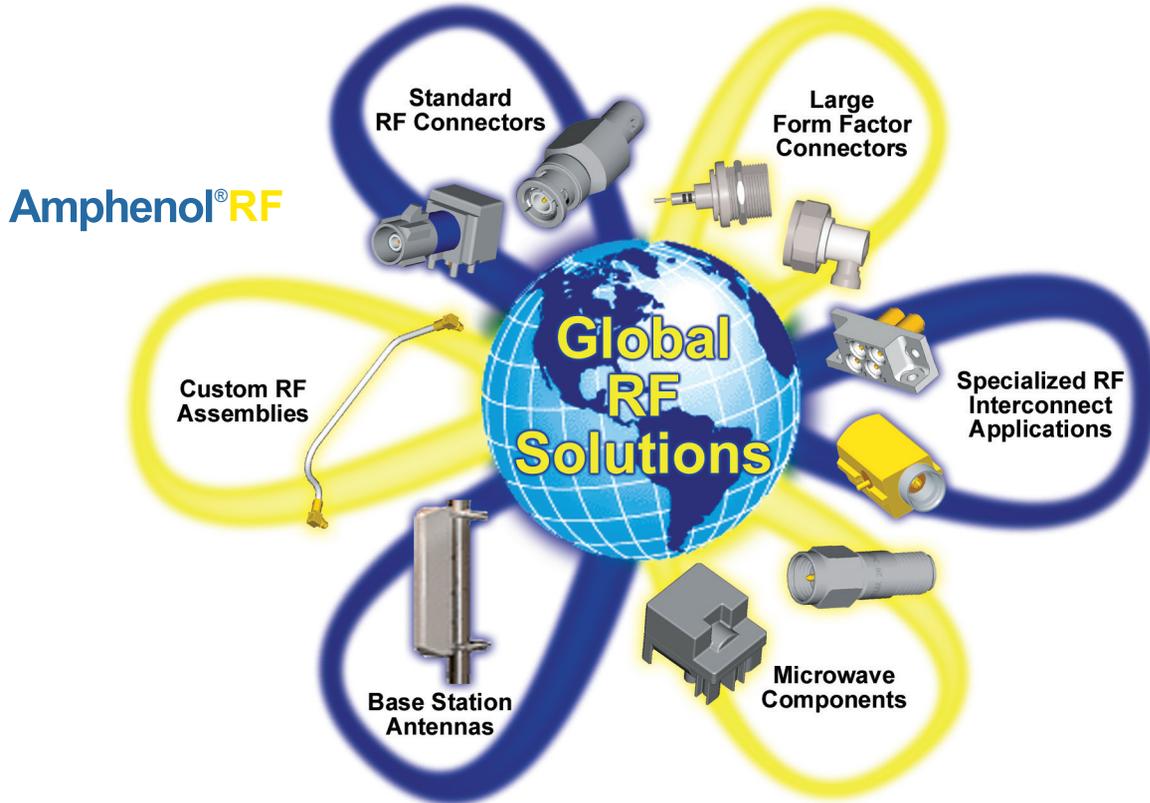


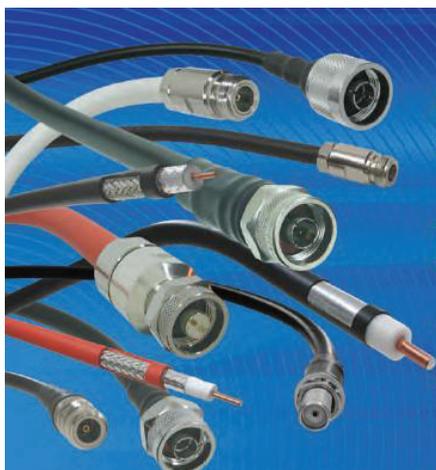
Amphenol RF's ARC line of Ruggedized Connectors are engineered for superior performance when exposed to extreme conditions such as rigorous vibration and exposure to harsh elements. These connectors are fully submersible, as well as, designed to withstand corrosion from natural elements and manmade chemicals.

The ARC line is available in TNC, N-Type and SMA configurations in straight, right-angle, standard and reverse polarity versions. All connectors are IP67 rated when in the mated and unmated conditions, which means that they are dust-tight and protected against the effected of temporary submersion of water. Common applications for ruggedized interconnects include test and measurement machinery, and outdoor communication equipment.



RF Solutions





TMS Coaxial Cables

Amphenol TMS is the leader in coaxial transmission line technology and production. We provide the broadest range of transmission line solutions for military, aerospace, wireless communications and industrial applications. Our engineering expertise and range of manufacturing capabilities are unmatched in the industry. With production facilities in the US and China we address both specialized applications with extremely demanding performance requirements and high volume commercial applications at frequencies from a few KHz to 50 GHz.

TMS leads the way in innovative cabling products for the wireless market and provides advanced interconnects for demanding aerospace and electronic warfare systems. Industrial applications include high voltage and high power cabling, and the scientific community relies on TMS products in particle beam research. Times pioneered the development of low smoke cables for shipboard applications, leads in phase stable cable performance, and is now developing the next generation transmission line.



Amphenol

Connecting People & Technology

RAILWAY INTERCONNECT

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