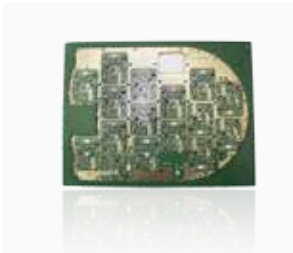
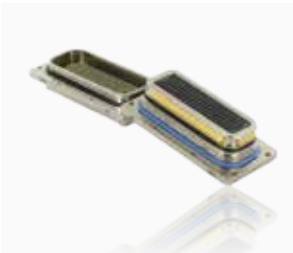
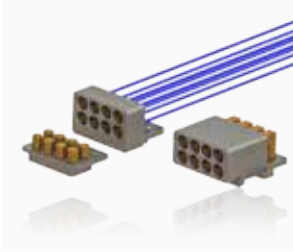
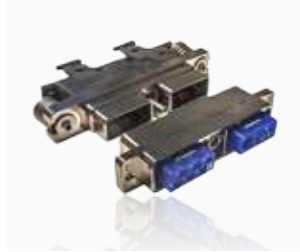
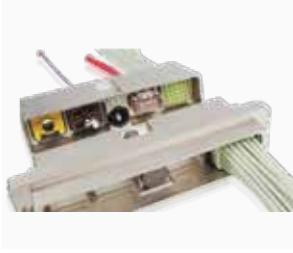


Amphenol
MILITARY & AEROSPACE



Amphenol
Military & Aerospace
Products Overview
European Market



Amphenol

For over 80 years, Amphenol has been a premier provider of advanced technology interconnect products to the world's leading electronics companies.

From our very first product in 1932 — tube sockets for radios — to our current broad array of interconnect systems, we have consistently strived to create leading-edge, innovative products for a diverse range of customers across a multitude of industries and end markets.

Through our close collaboration with these customers, Amphenol has become the interconnect partner of choice in enabling the electronics revolution.

Our organization is spread across more than 30 countries with more than 48,000 employees in greater than 100 facilities.

Our long term track record of success reflects in particular the agile, entrepreneurial culture of our management team, who consistently demonstrate an unwavering commitment to creating value for our customers.

This catalog highlights our broad portfolio of high technology products across the Military and Aerospace markets we serve.

It is designed to help you understand Amphenol's capabilities in developing performance-enhancing solutions that will enable your company to fulfill your high-technology needs.

Thank you for partnering with the Amphenol team.
We are at your service.

www.amphenol.com



Amphenol Military & Aerospace Operation is the world leader in the design, manufacture, and supply of high-performance interconnect systems for harsh environment military & aerospace applications.

We provide an unparalleled product breadth, from military/aerospace specification connectors to customized high-speed board level interconnects and fiber optics; from flexible to rigid printed circuit boards; from backplane systems to completely integrated assemblies.

Key applications supported are avionics, radar, communications, ordnance, missiles, engines, ground vehicles and tanks, space, and all levels of aviation.

AMAO Group:

Amphenol Socapex
France

Amphenol Air LB SAS
France

Amphenol SEFEE
France

Amphenol Limited
United Kingdom

Amphenol Martec Limited
United Kingdom

Amphenol Invotec
United Kingdom

Amphenol Ionix Systems
United Kingdom

Amphenol AirLB GmbH
Germany

Amphenol Printed Circuit
USA

Amphenol Griffith Enterprises
USA

Amphenol Canada
Canada

Amphenol Borisch Technologies
USA

Amphenol Aerospace Operations
USA

Amphenol Commercial Air Division
USA

Amphenol Nexus Technologies
USA

Amphenol PCD
USA

Amphenol SV Microwave
USA

Amphenol Times Microwave, Inc.
USA

Amphenol Fiber Systems International
USA

Amphenol Interconnect India
India

Amphenol Japan, Ltd.
Japan

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We are convinced, at Amphenol, that the right Cadmium substitute solution is the one corresponding to your need. The use of Cadmium, as well as hexavalent chromium, are key issues for many Military or Aeronautic equipment manufacturers.

Several substitutes are available on the market, with variable performances. Amphenol is deeply involved in the protection of the environment and offers a large range of ROHS compliant plating on its metallic shells such as Black Zinc Nickel, Electroless nickel, Black or Green Zinc cobalt, Durmalon (Nickel PTFE), ...

When it comes to the connectors on the printed circuit board, Amphenol can offer numerous ROHS compliant contact tails finishes (lead free) to allow perfect board level integration.

Amphenol supports you in choosing the right ROHS compliant contacts, connectors, backshells... and to help you to keep in conformance with the REACH regulation. (REACH : does not contain SVHC > 0.1% weight, or hazardous substances included in Annex XIV and Annex XVII of the regulation)

Please note that the products listed are only a sampling of our product ranges.

BLACK ZINC NICKEL



- Up to 500hrs salt spray endurance: with shell-to-shell continuity
- Aluminum shells

NICKEL



- Electroless Nickel
- Salt spray 48hours endurance with shell to shell continuity
- Aluminum, stainless steel, and composite (38999 or EN3645)
- Mil-spec performance for harsh environmental conditions

DURMALON™



- Meets the MIL-DTL-38999 Class W requirements
- 500 hours of salt spray combined with 500 mating cycles
- Maintains less than a 2.5 millivolt drop in shell-to-shell conductivity.
- Plating approved for use on the F-35 Joint Strike Fighter
- Suitable for unmanned land, maritime, and aerial vehicles

STAINLESS STEEL



- Up to 500hrs salt spray endurance: with shell-to-shell continuity
- Stainless steel shells (passivated or electroless nickel)

MARINE BRONZE



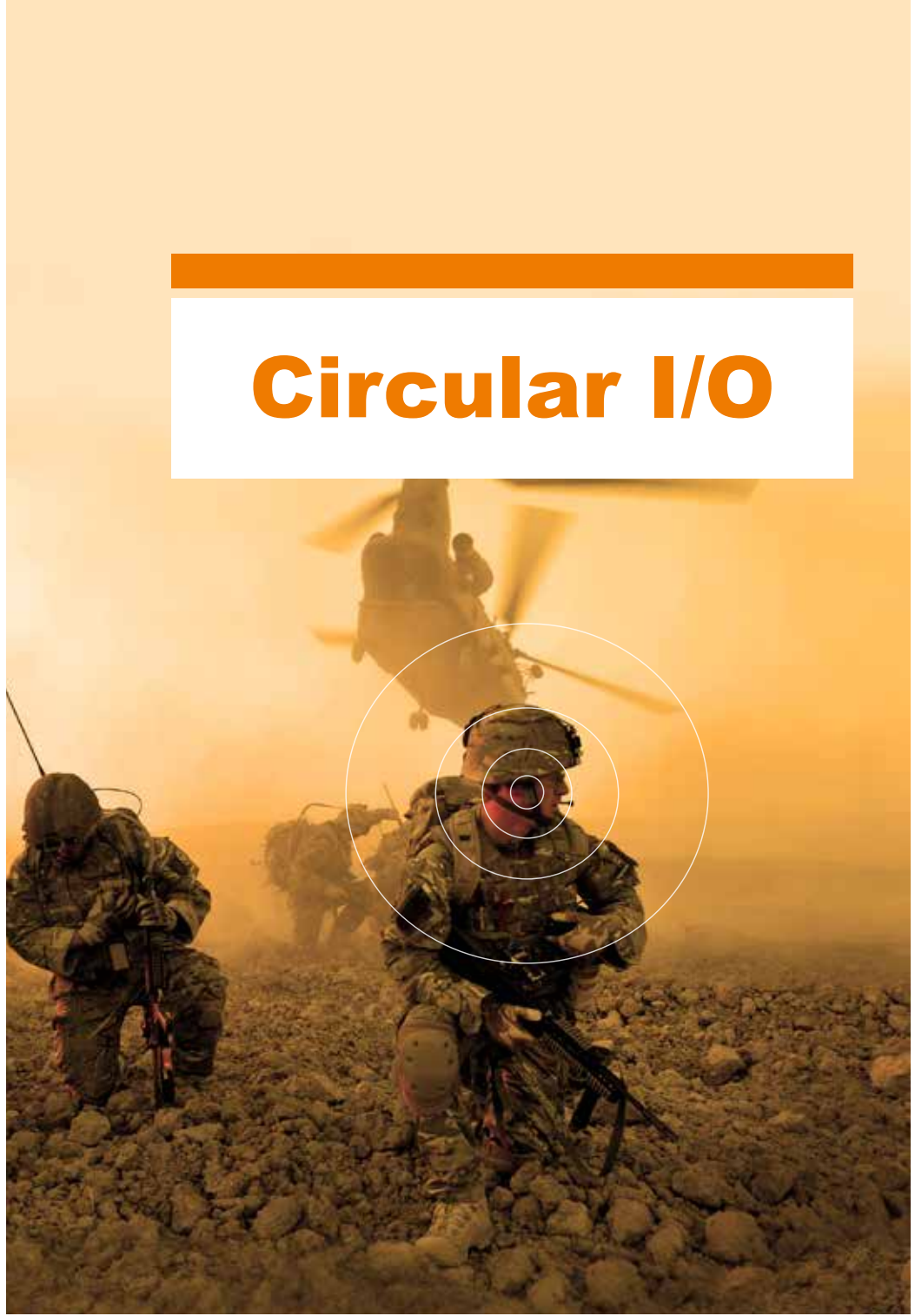
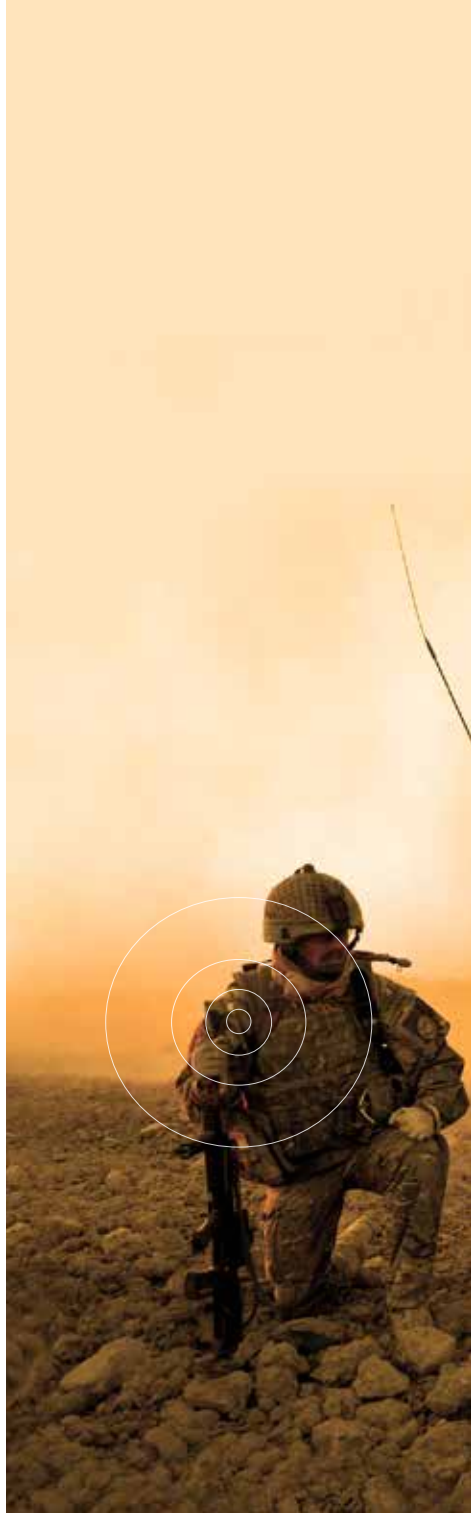
- Salt Spray resistance: 500 hours
- Shell to shell conductivity: Resistance < 5 mΩ before tests
- Aluminum-Bronze raw material, RoHS compliant, no plating

BLACK SILVER



- 1000hrs salt spray endurance
- RoHS compliant
- Cadmium Free
- Low Lustre (non-reflective)
- Gun-metal grey colour appearance

Circular I/O



Signal



62GB MIL-DTL-26482

Amphenol Limited

- Miniature Bayonet Lock series compliant with MIL-DTL-26482
- Key-way orientation
- Aluminium with Olive Drab Zinc Cobalt, Stainless Steel, Marine Bronze & Black Zinc Nickel plating



Audio Connectors 55116

Amphenol PCD/AI

- Qualified to MIL specification MIL-DTL-55116
- Water resistant
- Three-point bayonet coupling for quick disconnect & self-wipe contact
- Harsh environment



Iguana

Amphenol Limited

MIL-DTL-38999 Style Connectors with an IP68 Barrier sealed Interface

- High environmental sealing and waterproof up to IP68 in both mated and unmated conditions
- Available in Black Zinc Nickel plating as standard with alternative plating finishes also available
- Pre-loaded with PCB contacts, saving time in assembly and ensuring correct alignment
- Low profile jam nut connector reduces both penetration into the box and weight
- Integrated moulded stand-offs allow PCB soldering, inspection and cleaning
- Integral ground pins



Breakaway Fail-Safe Lanyard Release Plug Connectors

Amphenol Aerospace / Amphenol Limited

- Instant decoupling and damage free separation
- Completely intermateable with standard receptacles (D38999/20 and /24)
- Inventory support commonality through the use of standard insert arrangements and contacts
- Highly durable non-metallic operating sleeves in a variety of lengths and diameters
- Increased pull-force capability
- Low-profile designs



Class L MIL-DTL-22992

Amphenol Aerospace

- Electrical loads: current range from 40 to 200 amperes
- Direct current or single/three phase, 60/400 Hertz alternating current
- Automatic grounding for safety
- Meet MIL-DTL-22992 qualification
- Resistance to the operating environments of heat, moisture, vibration, high impact and immersion - see chart
- Double stub coupling threads for faster connections; no cross threading, easy cleaning



D38999 Connector Series MIL-DTL-38999/EN3645

Amphenol Socapex / Amphenol Limited / Amphenol Aerospace

- Largest range of 38999 Series I, II & III
- Numerous plating options including RoHS

Signal



EMI/EMP Filter Protection Connectors

Amphenol Aerospace / Amphenol Limited

- Reduction in overall weight and space with the elimination of external filter circuits
- Reduction of solder junctions
- Increase in reliability due to fewer connections

Options with:

- High Speed Filter Connectors
- Filter Plug Connectors
- Filter Adapters...



Grounded 38999 Connectors

Amphenol Aerospace

- Derived from MIL-DTL-38999 and EN3645
- Metallic insert to maintain ground plane with the connector shell for all the shielded contacts



High Speed Contacts

Amphenol Socapex

- Wide range of Coax, Twinax, Quadax or Octonet TM
- Available for D38999/EN3645, SIM/EN4165, 2M and ARINC600
- Several termination: Crimp, PC Tails, Compliant pins
- Meet or exceed major standards as EN3155 or AS39029



Signal Contacts

Amphenol Socapex

- Crimp contacts under the EN3155, AS39029
- For MIL-DTL-38999 Series I, II, III / EN3645 / EN4165

Many specifics :

- reduced barrels
- enlarged barrels
- PCB versions



Matrix MIL-DTL-26482 Series 2

Amphenol Aerospace

- 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 from 3 to 55 circuits
- Various finishes available



Matrix MIL-DTL-5015

Amphenol Aerospace

- Medium to heavy weight cylindrical
- Seven mounting style in shell sizes 8 to 48
- Contact sizes 0 to 16 in over 100 insert patterns
- Classes include aluminum or stainless steel shells, or firewall capability
- Completely sealed against environmental extremes
- Thermocouple pin and socket contacts are available

Circular I/O

Rectangular I/O

Board Level Products

Systems

Clamps & Supports

Distribution

Signal

Circular I/O



Matrix MIL-DTL-83723

Amphenol Aerospace

- Medium sized, environmentally resistant circular connector
- 3 coupling style choices: bayonet, threaded & quick disconnect
- Multiple options



MIL-DTL-83538 Weapons Release Connectors

Amphenol Limited

- Range of Rail Launch connectors for air launched missiles
- Conform to the requirements of MIL-DTL-83538
- Aircraft Connector, Missile Connector, Buffer and protective caps all available
- Inter-series buffers for legacy platforms and missiles also available



PT/451

Amphenol Socapex

- MIL-DTL-26482 Series I subminiature cylindrical connectors
- Crimp, solder, & PCB contact versions
- Wide range of backshells and inserts arrangements
- Available with plastic self closing cap option



Pyle MIL-DTL-26500

Amphenol Aerospace

- Aluminum Connectors
- Military Classes R and G
- Stainless Steel Connectors
- Military Class E
- Firewall Connectors
- Military Class K
- 48 Series Receptacle Short Skirt
- Hermetic Connectors
- Military Class H
- Contacts and Accessories
- Commercial Design with PC Tail Contacts
- BACC63 Boeing Specifications



Receptacle Stand Off cylindrical

Amphenol Socapex

- Allow to fix directly the connector to the board with 3 or 4 screws
- Square flange and jam nut receptacles equipped with PC tail contacts and stand-off
- Prevents any mechanical stress on the contacts terminations
- Available in 38999 Series I, II, III + SJT (VG96912) + PT(VG95328)...



RNJ Series

Amphenol Socapex

- Rack & Panel solutions for harsh environment
- Very light weight vs ARINC 404 or 600
- Derived from HE308/38999 serie I
- Realignment capability on 3 axis
- 38999 level sealing with the specific membrane mounting

Signal



RNJ LP Series (Low Profile)

Amphenol Socapex

- Rack & Panel solutions for harsh environment
- Very light weight vs ARINC 404 or 600
- Derived from 38999 series III
- Realignment capability on 3 axis
- 38999 level sealing with the specific membrane mounting



SC39

Amphenol Socapex

- Light, small and strong push/pull connector derived from MIL-DTL-38999 series III
- Mating/Unmating forces (excluding contact force retention)
- Standard version: from 5 to 10 kilos
- Low force version: less than 5 kilos
- Lanyard version available



SL61-Socapex

Amphenol Socapex

- Aimed at I/O applications
- 4 types of housing (10, 20, 30 and 40)
- 26 arrangements from 2 to 61 mixed solder contacts
- Configurations available: plugs, receptacles, line mount receptacles, receptacles with locking ring and crimp contacts
- RoHS version



Titanium HTC

Amphenol Limited

- A range of EN2997 connectors manufactured from Titanium
- Conform to the requirements of Rolls-Royce specifications ESC20 and ESC21
- Available in shell sizes 08 to 24
- Offer 30% weight-saving over Stainless Steel
- Fully productionised in UK and India



Breakaway 10 Pin Waterproof Connector

Amphenol Nexus Technologies Technologies

- Backward compatible to 7 Contact Version
- Stereo
- Water/Dust Resistant
- Quick Disconnect
- Blind Mating
- Available in both Solder and Quick Insulation Piercing Termination Models

Circular I/O
Rectangular I/O
Board Level Products
Systems
Clamps & Supports
Distribution

Signal



ECTA 133

Amphenol Air LB GmbH

- Metal push-pull connector as per EN 61984 and UL in solder-crimp or single solder versions
- Power (125A) & Signal (40A) transmission
- Series 1331: Plug with pre-mating ground contact
- Series 1332: 3-41 contacts
- 15 - 125 A
- Quadrax contacts



ECTA 544 in Composite

Amphenol Air LB GmbH

- Plastic push-pull connector as per EN 61984 and UL in solder-crimp or single solder versions
- 3-27 contacts 5A
- 3- and 5-pole plug
- From 5-25A or as data transfer plug



VG95234 / GCB SERIE *

Amphenol Air LB GmbH

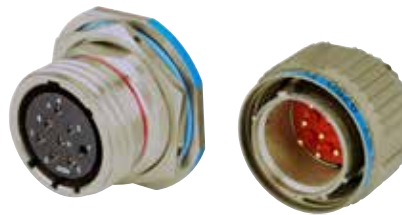
- Circular connector in the GCB-B series with reverse bayonet adheres to the VG95234 norm
- High reliability, waterproof, wear- and vibration-resistant
- Nominal current to 245 A
- Up to 3000V
- Protection type IP67 (with individual load seal and completely loaded)



VG95328 / PT SERIE *

Amphenol Air LB GmbH

- Circular connector, PT, with bayonet locking, up to 61 contacts
- Approved as per VG95328 as per MIL26482 Series I, for crimp, solder, single solder and wire wrap contacts
- Also an HF-sealed version is available



VG95319-1006/-1007/-1008 MIL 38999 SERIE III *

Amphenol Air LB GmbH

- TV circular connector with various surfaces such as aluminum, stainless steel, marine bronze or nickel-coated composite
- Approved as per MIL-DTL-38999 Series III
- Also very vibration-resistant due to its screw lock
- Scoop-Proof up to 187 crimp or single solder contacts
- Hermetic plugs and tear plug available



VG96912 / SJT SERIE

Amphenol Air LB GmbH

- SJT circular connector with bayonet lock, for crimp, single solder and wire wrap contacts
- Approved as per VG96912, PAN6433-2, JNC03
- High contact density

* AMPHENOL HAS A LARGE RANGE OF VG-CONNECTORS AND IS ALSO THE PREFERRED SUPPLIER FOR THESE CONNECTORS. All connectors are available in short delivery times and in small quantities.

Notes

Circular I/O
Rectangular I/O
Board Level Products
Systems
Clamps & Supports
Distribution

High Speed

Circular I/O



μCom 10 GB+

Ethernet

Amphenol Socapex

- Cat 6A-10Gb
- Push-Pull or Threaded versions on same receptacle
- Miniature: 15mm max external diameter IP68
- Environmental testing based on MIL-DTL-38999 - III specification
- 2000 Mating cycle
- Space saving design



CTOS/CTOL

Fiber Optics

Amphenol Socapex

- Singlemode & multimode, hermaphroditic fiber optic connector, up to 8 channels
- Expanded beam technology for contactless transmission
- Protective window for easy cleaning
- Design for gloved handling and blind mating in extreme conditions
- CTOS is qualified according to NATO/STANAG4290



Expanded Beam Fiber Optic Termini Lux Beam™

Fiber Optics

Amphenol Socapex

- Easy-to-clean single expanded beam termini
- Compatibility with multisources connectors (38999, EN4165, EN3645)
- Hybrid solutions possible (mix with electrical contact)
- For standard size 12 and 16 contact cavities



FS801: ARINC801 Qualified Circular Fiber Optic Connectors

Fiber Optics

Amphenol Fiber Systems

- Qualified to the ARINC 801 Specification
- Precision alignment and components provide excellent optical performance
- Supports APC termini for RF-over-Fiber and other applications requiring low back reflection
- Supports standard suite of 38999 backshells and accessories
- Removable ASR facilitates termini cleaning
- Scoop-proof design prevents termini end face from being touched by the front of the mating connector
- High-density arrangements up to 32-channels



High Speed Copper Connectors & Cable Assemblies

Amphenol Aerospace

- Large array of cable assemblies with high speed quadax and differential twinax contacts, as well as coax and concentric twinax contacts.
- Widest range of cable assemblies, including the latest cable types in the marketplace.



M28876: US Navy Standard Fiber Optic Connector

Fiber Optics

Amphenol Fiber Systems

- Backshell design allows simplified, removable aramid yarn captivation with no mechanical crimp rings
- Quickloc™ design enables faster maintenance or repair without complete disassemble of connector backshell assembly
- Commercial-off-the-Shelf versions of this product are available in other materials and platings
- Six keying options (plus universal keying for COTS product) for both plugs and receptacles

High Speed



MRC Multo-Media Ruggedized

Ethernet

Amphenol Aerospace

- **Current Rating:** 2.5 AMPS Max Per Contact
- **Protocols Supported:** Gigabit Ethernet USB 2.0/3.0, 10 Gigabit Ethernet & HDMI
- **Durability:** 2000 Mating Cycles
- **Unmating Force:** 4lb min
- **Temperature Range:** -65° to 100°C (cable rating)



RF/Microwave MIL-SPEC Connectors

RF

SV Microwave

- MIL-PRF-39012, MIL-PRF-55339, MIL-C 83517, MIL-D-39030, MIL-A-3933, MIL-PRF-31031, DSCC approvals
- SV Microwave has the most extensive RF connector MIL-SPEC product offering of any supplier
- SV has a long history of supporting DLA and promoting the standardization of RF connectors and components
- Only DLA approved source for M3933/30 (SVK) attenuators to 32 GHz



SMP, SMPM & SMPS Connectors, components, Adapters and Cable Assemblies

RF

SV Microwave

- Blindmate design
- RF performance DC to 40 GHz (SMP), 65 GHz (SMPM) & 100 GHz (SMPS)
- Designed to accommodate radial, axial and angular misalignments
- Interchangeable with other industry standard connectors
- High density packaging possibilities
- Ideal performance even under misaligned conditions



TacBeam - Tactical Fiber Optic Connector

Fiber Optics

Amphenol Fiber Systems

- Less susceptible to dust and debris
- Monolithic insert facilitates cleaning
- Hermaphroditic design enables daisy chaining of cable assemblies to support varying distances
- Non-contacting interface allows thousands of mating cycles



TFOCA-II - Tactical Fiber Optic Connector

Fiber Optics

Amphenol Fiber Systems

- Hermaphroditic design enables daisy chaining of cable assemblies to support varying distances
- Over 400lbs cable retention strength
- Solid alignment sleeve design provides more robust field durability
- 3 keying positions available
- Zn-Ni plating is more durable than standard cadmium plating



TVOP

Fiber Optics

Amphenol Socapex

- Fiber optic connector design with 38 999 Series III shell & Optimised insert for butt joint termini dia. 2.5mm
- Design for Multimode and Singlemode PC or APC version for high return loss.
- Up to 8 channels

- Circular I/O
- Rectangular I/O
- Board Level Products
- Systems
- Clamps & Supports
- Distribution

High Speed



USB Field: USB 3.0

Amphenol Socapex

- Based on MIL-DTL-38999 series III
- Threaded locking mechanism
- IP 68
- Now available in USB 3.0



USB Memory keys

Amphenol Socapex

- Based on MIL-DTL-38999 series III
- USB 3.0 for capacities 16, 32, 64 & 128 GB
- IP68, -40/+85°C
- MIL-STD-810G vibrations
- MLC Memory with Wear leveling providing 3000 read/write cycles
- MTBF: 1,000,000 hours
- Higher capacities: please consult us



USB <> MIL-DTL-26482 Type

Amphenol Socapex

- USB ↔ Standard 26482 12-10 pin layout adapter
- ABS 1547 for Avionics applications
- Plastic Snap Cap available for USB side



RJF TV

Amphenol Socapex

- Cat 6-1Gb
- Based on MIL-DTL-38999 series III/size 19
- Panel size: 36.53 mm
- Aluminum, Stainless Steel and Marine Bronze shell
- No tool cabling: uses standard RJ45 cordsets



RJF

Amphenol Socapex

- Cat 6 Aluminium
- Circular shell
- Bayonet coupling
- Panel size: 33.3mm
- Based on MIL-DTL-26482 H/size 18
- ATEX explosion proof versions
- No tool cabling: uses standard RJ45 cordsets



RJ45 - M12 Adapter

Amphenol Socapex

- Plastic snap cap available

High Speed



RJFRB/RJF544

Amphenol Socapex

- Cat 6
- Circular composite shell
- Reverse bayonet & Push pull coupling
- Panel size: 27.4mm & 31mm
- No tool cabling: uses standard RJ45 cordsets



Rugged Ethernet Cables
RJF TV Cordsets with
Tactical Ethernet Cable

Amphenol Socapex

- Factory tested & ready to install Ethernet Cordsets and Jumpers
- Large choice of connectors, same tactical Cat5e, Cat6 & Cat7 Ethernet Cables
- JD38999 versions compliant with Vetronics MILVA NGVA standard: NATO General Vehicle Architecture



VG95319-100/-101
TAC BEAM *

Amphenol Air LB GmbH

Fiber Optics

- Hermaphroditic lens connector
- Qualified as per MIL-DTL-83526/20 and 21
- Approved as per VG95319-100
- Suitable for outdoor applications
- Available as a 1 to 4 channel version
- Multimode and single mode



Custom Hermetic Feedthrough

Amphenol Martec Limited

- Hermetic seal - Low leak rates
- Pressure up to 60,000psi (400 Mpa)
- Fire wall capabilities to 1000°C (1832°F)
- Optimised Design



Hermetic Connectors

Amphenol Martec Limited

- Custom Hermetic Connectors
- Hermetic M12 Connectors
- Subsea Connectors
- Hermetic Vacuum Connectors
- Hermetic Filtered Connectors
- Hermetic Rectangular Connectors

* AMPHENOL HAS A LARGE RANGE OF VG-CONNECTORS AND IS ALSO THE PREFERRED SUPPLIER FOR THESE CONNECTORS. All connectors are available in short delivery times and in small quantities.

- Circular I/O
- Rectangular I/O
- Board Level Products
- Systems
- Clamps & Supports
- Distribution

Miniaturization

Circular I/O



2M Micro Miniature

Amphenol Socapex

2M Features:

- 70% weight savings compared to MIL-DTL-38999
- 50% smaller than MIL-DTL-38999
- Broad family with many styles and options
- Designed for high-reliability aerospace defense/C4I applications
- For use in the harshest environments



HD38999 High Density

Amphenol Socapex

- 40% more contacts vs 38999
- The only high density connector which meets or exceeds MIL-DTL-38999 series III performances



Luminus Series

Amphenol PCD

- 1/4 turn bayonet style connection
- Interfacial & Triple-Barrier Seal
- Multiple keying positions; visual markings
- Multiple configurations & accessories
- Rugged Polyamide Housings; 500 mating cycles
- Blind-Mate connection
- D160, MIL-T-81714, FAR25 Compliance



Size 7 38999

Amphenol Socapex

- 38999 Micro-miniature
- Derived and compliant with MIL DTL 38999 series III
- Available in High speed version (Coax, twinax, quadrx)



38999 Reduced Flanges Receptacles

Amphenol Socapex

- More density on panel 37% surface saving
- More density inside the box: 36% saving
- Derived from MIL-DTL-38999 series III version
- Mates with standard MIL-DTL-38999 series III plugs and caps
- Reduced flange receptacle are available in crimp version and with PC Tail contacts, as well as in stand off version
- For jam nut (TV07) configurations



Terrapin

Amphenol Limited

- Miniature footprint: Space saving compared to traditional interconnect
- Quick release breakaway
- Latched version: Allowing connectors to be locked together
- Common plug connector: Suitable for mating with both push-pull and latch style receptacles
- Sealed to IP68: A high degree of sealing to protect against dust and water ingress in both mated and unmated conditions
- RoHS compliant: Meets the industry requirements to restrict the use of hazardous substances
- 2000 + mating cycles

Miniaturization



Bantam Micro Bayonet Connector

Amphenol Aerospace

- Low Cost
- Simplified Termination with tape and reel contacts
- Small Form Factor
- Secure Latching
- Tool-less & Fast Mate
- Lightweight

Circular I/O

Rectangular I/O

Board Level Products

Systems

Clamps & Supports

Distribution

Power

Circular I/O



ABS2286

Amphenol Socapex

- Self-locking plug with sleeves and spacers defined in MIL-C-5015/EN2591
- Fire smoke and Toxicity compliant further ABD00631



Circular Galley Connectors

Amphenol PCD

- Highly reliable & easy to use
- Interchangeable & intermateable with other pre-existing equipment in the field
- Crimp termination connection system with 3, Power (10 AWG) & 3 Control (16 AWG)
- Blind-Mate connection
- Configurable to PCB contacts; plating options available



PowerSafe (VG96944 qualified)

Amphenol Socapex

- Transmit high-power 500V
- Focus on user safety – can be unmated when loaded DIN EN-61984 (VDE 0627)
- First mate/last break contact
- Pilot contact to be used with a relay
- Several contact arrangements available



Rhino Circular Multipole

Amphenol Limited

- Rectangular format Rhino connector
- Multi-contact using Radsok power contacts
- Cable and Rack and Panel versions available
- Includes interlock contacts for hot mating
- Uses standard Rhino components
- Custom designs available



Rhino Lok

Amphenol Limited

- Connectorless power contact
- Press to release quick locking mating mechanism
- Uses Radsok power contacts
- Ideal for detachable busbar systems
- Weight and size reduction
- Custom designs available



Rhino Series

Amphenol Limited

- Hyperbolic contact design
- Touch-Protected Contacts
- MIL-DTL-38999 series III design features
- MIL-DTL-38999 panel cut-outs: Industry standard footprint
- Sealed to IP68 (mated): A high degree of sealing to protect against dust and water ingress
- Multiple key orientations: Six standard key options to prevent mis-mating

Power



GCB-M - Modular Reverse Bayonet

Amphenol Air LB GmbH

- Compliant to the VG95234 standard
- Harsh environment: Waterproof and resistant to vibrations and wear
- Modular, more than 230,000 different layout configurations
- Module with contact size from AWG 23 to AWG 8
- Module for RJField, Quadrax, Micro Coax and Twinax
- Fiber Optic: Luxcis®, Amphelux®, Elio®, MPO and M29504 Butt joint terminations

Accessories



ABS2216 Backshells

Backshells

Amphenol Socapex

- Anti-decoupling system
- 3 angles: straight, 45° and 90°
- EMI and NON-EMI versions available
- Handling temperature from -65° to +200°
- Light weight solution
- EMI backshell provided with a band-it to better maintain EMI sleeve



Backshells

Backshells

Amphenol Socapex / Amphenol India

- Rear accessories in different version: straight, angled, backnuts, cable clamps, EMI, etc
- For EMI version, # termination technologies: braid soldering, clamping, stainless steel band system...
- AS85049 qualified
- New design upon request



Engine Backshells

Backshells

Amphenol PCD / Amphenol India

- Qualified to ADS Product Standard ESC 75, 76, 77
- Three product types: straight, 90°, 45°
- 10 shell sizes to choose from
- RFI/EMI Cone Grounding
- 100% Anti-Decoupling

Accessories

Circular I/O



PT Snap Caps

Protective Caps

Amphenol Socapex

- Available in composite for PT/451, IP54
- Sizes available : 8, 10, 12, 14, 16, 18
- Protection against dust & water spray
- For square flange receptacle and jam nut receptacles
- Self-Closing after disconnect



Rubber Caps

Protective Caps

Amphenol Socapex

- 6 sizes: 9/10, 11/12, 13/14, 15/16, 17/18, 19/20: available for the beginning of the year
- Size N for PT / SJT / JT
- Size N-1 for TV / LJT
- IP 68
- Material : Silicone 200°C



TV Snap Caps

Protective Caps

Amphenol Socapex

- Sizes 15 and 19 available
- IP 67
- Protection against Dust & Water spray
- For square flange receptacle and jam nut receptacles
- Self closing after disconnect



VG95319-1011
BACKSHELLS *

Backshells

Amphenol Air LB GmbH

- SJT circular connector with bayonet lock, for crimp, single solder and wire wrap contacts
- Approved as per VG96912, PAN6433-2, JNC03
- High contact density



38999 with Bus-Bar
contacts

Backshells

Amphenol Limited

- Available for MIL-DTL-D38999 connectors
- Two lengths as standard
- Allows contacts to be 'ganged' for power sharing
- Reduces termination length
- Male and Female threaded posts available

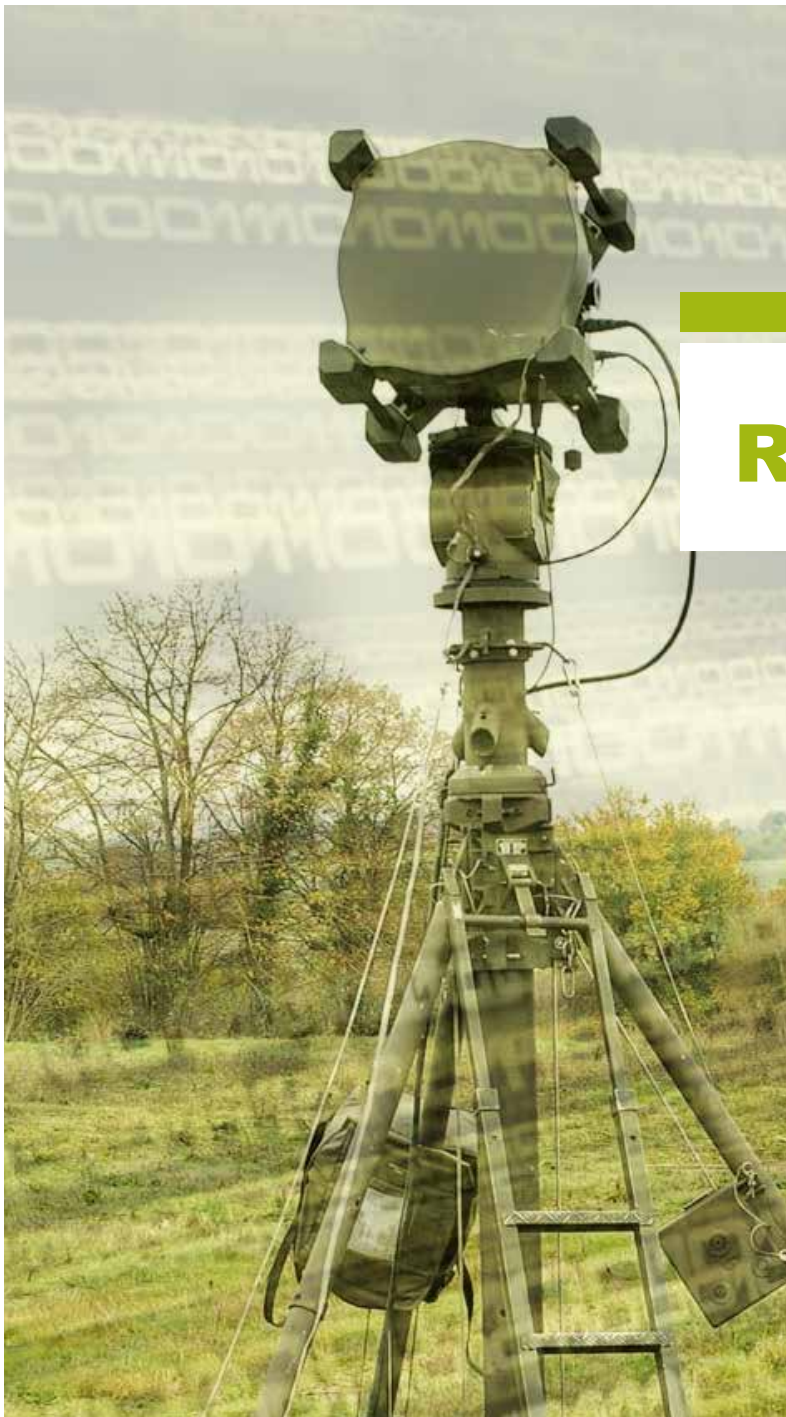
Rectangular I/O

Board Level Products

Systems

Clamps & Supports

Distribution



Rectangular I/O



Signal

Circular I/O
 Rectangular I/O
 Board Level Products
 Systems
 Clamps & Supports
 Distribution



ASR Connectors

Amphenol Air-LB France

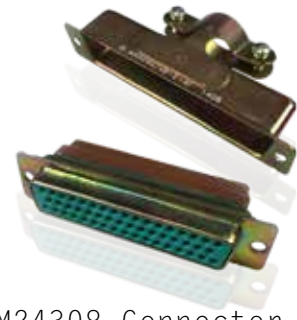
- All-in-one design & locking tabs allows for easy “mate & lock”
- Interfacial & rear grommet sealing to Mil-Spec Standards
- Also available with coax contacts
- High-performing SAE 39029 Series crimp contacts are standard
- D-Shaped Design: Enables simple polarization



EN3545/1900 Series Connectors

Amphenol Air-LB France

- Lightweight Composite and silicone
- For Copper cable and Aluminum cable contacts
- Polarization 36 positions
- Sealed - IP66 / IP68 / IP69K
- Many contacts size / layouts : 78cts#22 / 50cts#20 / 21cts#16 / 13cts#12 / 7cts#10 / 5cts#8 + Mixed
- Operating temperature : -55°C to +175°C (permanent)



M24308 Connector (D-SUB Connectors)

Amphenol PCD

- Mil qualified to MIL-DTL-24308
- Durability: 500 mating cycles
- Temperature: - 55 Deg C to + 125 Deg C
- Over 200 part numbers available



MIL-PRF-12883 Relay Sockets

Amphenol PCD

- Low profile-available in all military configurations; configured to a minimum size & weight & accept the MIL-C-39029/29 contact family
- Extended profile allows for contact standardization; configured to accept the longer MIL-C-39029/5 contact
- Sockets available with fixed or loose mounting studs; can be top or bottom mounted
- Designed for MIL-C-39029 contacts; standardization simplifies product
- Polarization in accordance with MIL Spec requirements; provided by specific contact configuration and/or polarizing pins



Multiport Connectors & Contacts

Times Microwave Systems

- Interchangeable connector front ends
- Drastically reduces panel space requirements for multiple connector outputs/inputs
- Minimize box installation clearances for connections
- Prevents cross connected cable assemblies
- Improves overall system maintainability
- Reduce costs and downtime associated with equipment installation and removal
- Eliminates the need to Torque or Lockwire individual connectors



Quick Mount Relay Socket

Amphenol PCD

- Easy installation: A heel and toe snap-in system allows the socket to be mounted to the panel without hardware and held securely in place
- Lower installation cost: Reduction of over 45% in socket installation time
- Snap-in relay to panel mounting & pre-assembled relay hardware

Signal



Rectangular EMI & EMP Interconnect

Amphenol Canada

- Stress isolated solderless filter design results in superior physical and thermal shock performance
- Removable diode design enables customer field repairability
- Physically protected and fewer filter elements results in a more cost effective solution
- Reduction in space and weight leads to smaller overall Avionics box solution



EN4165 / SIM

Amphenol Air-LB France

- Modular, multi-functional rectangular connector
- Consists of shells and modules, which together create an integrated solution
- Supports advanced signal and power requirements in a small space
- Flexibility and simplicity
- Custom per customer requirements



ASNE relays sockets

Amphenol Air-LB France

- Adaptation device between a Relay and a Cable harness
- Lightweight composite & Compact design
- For 8, 14 or 16 cts size 20 / 16 (crimp contacts)
- Polarization provided by specific contact configuration or polarized mounting devices



NFC 93422 HE310A relay sockets

Amphenol Air-LB France

- Adaptation device between a Relay and a Cable harness
- Lightweight composite & Compact design
- For 8, 14 or 16 cts size 20 / 16 (crimp contacts)
- Polarization provided by specific contact configuration or polarized mounting devices



Push Pull connectors 3357 series

Amphenol Air-LB France

- Lighting connector
- Lightweight composite and silicone
- 3-pin quick install or PCB versions are readily available
- Fire/Smoke/Toxicity conform to ABD 031 and FAR 25853

Circular I/O

Rectangular I/O

Board Level Products

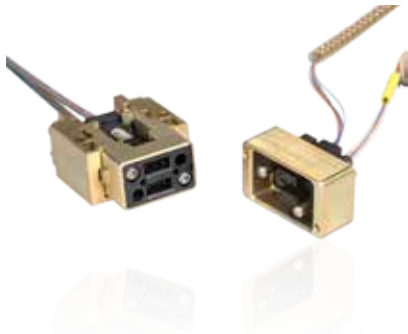
Systems

Clamps & Supports

Distribution

High Speed

Circular I/O
Rectangular I/O
 Board Level Products
 Systems
 Clamps & Supports
 Distribution



Board Level Fiber Optic Interconnects

Fiber Optics

Amphenol Aerospace

VME P0/J0 FIBER OPTIC CONNECTORS:

- Fiber optic interconnect for attachment to standard VME-64x cards and backplanes for the P0 and J0 locations of the boards

VITA 66.1 FIBER OPTIC CONNECTORS:

- Reliable high speed connection for the most extreme commercial and military environments



EN4165 / SIM Elio

Amphenol Air-LB France

- Modules as per EN4701
- 4 LUMIERE or ELIO optical contacts (EN 4531-101)
- No EMI/RFI disturbance
- With or without peripheral Sealing (overmoulded)
- From -65°C to +125°C
- Available in 4 polarization (A, B, C and D)
- Conform to ABD 031 and FAR 25853



EN4165 / SIM MPO

Fiber Optics

Amphenol Air-LB France

- MTP/MPO directly plugs and locks itself into the SIM/EN4165 compatible insert. It can be easily removed for repair
- From 12 to 48 fibers
- Multimode and Single mode type
- The P (male) insert is fitted with an interfacial compression seal. It is the one which by default will accept the MTP/MPO equipped with guiding pins
- The S (female) insert has no interfacial seal
- Both P and S inserts have molded pre alignment tabs for pre-positioning during mating of connectors

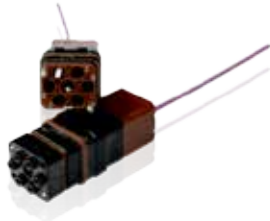


1900 Elio connectors

Amphenol Air-LB France

- Derived from EN3545 connectors
- Lightweight Composite
- For 7 Elio® Optical termini
- Polarization 36 positions

High Speed



EN4165 / SIM Luxcis

Amphenol Air LB France

- 6 AMPHELUX or LUXCIS optical contacts (801)
- No EMI/RFI disturbance
- With or without peripheral Sealing (overmoulded)
- From -65°C to +125°C
- Available in 4 polarization (A, B, C and D)
- Conform to ABD 031 and FAR 25853



EN4165 / SIMTac®

Amphenol Air LB France

- SIM module for 2 MTAC connectors
- MTAC connectors are fitted with MT ferrules as per IEC 61754-5
- To be assemble on but-joint or lensed MT ferrule
- 2 versions available : unlocking from the front (MTAC-01) or from the rear (MTAC-02) of the module
- Removal from the rear for both versions



R-VPX Connectors

Ethernet

Amphenol Aerospace

- Compliant to VITA 46 for Open VPX applications
- Meets and exceeds VITA 47 and 72 performance requirements
- Supports Ethernet, Fiber Channel, InfiniBand, and other protocols
- Modular COTS lightweight connector system
- Low mating force connector system
- Pin-less backplane connector family
- Supports .8 inch card slot pitches
- Up to 140 signals per inch
- Can be combined with high power modules, RF modules (VITA 67) and Optical modules (VITA 66)



EN4165 / SIM RJ45 cat6a

Amphenol Air LB France

- RJ45 - 10 Gb
- Cat6a (TIA 568C2)
- Ea class (ISO 11801)
- Versions cable-to-cable and cable-to-PCB



Modul'R™

Amphenol Socapex

- A unique platform of proven technologies
- Extensive modular interface allowing the combination of all types of signals
- High-speed differential pairs, low-level signal contacts, press-fit power & high-power contacts
- Direct harness modules

Circular I/O

Rectangular I/O

Board Level Products

Systems

Clamps & Supports

Distribution

Miniaturization

Circular I/O

Rectangular I/O



EN4165 / SIM HD

Amphenol Air LB France

- SIM Module for 30 contacts size 23
- Suited for crimp or PCB contacts
- 50% more contacts than standard size 22 module (20 cts)
- Available with or without peripheral seal
- Operating Temperature : -55°C to +175°C (permanent)
- Conform to ABD 031 and FAR 25853



Micro-D Connectors

Amphenol Aerospace

- Surface Mount/Straddle Mount
- Combo/Hybrid Micro-D
- Panel Mount w/o Ring Seal
- High Temperature Micro-D (200 deg C)
- Right-Angle PC Tail
- Double or Multiple-Bay Connectors (vertical/horizontal orientation)
- Custom Cable-Harnesses Assemblies
- Many other Custom Connectors

Board Level Products

Systems

Power

Clamps & Supports



Arinc 810 Galley Connector / EN4644

Amphenol PCD / Amphenol India

- Intermateable & Interchangeable with other pre-existing equipment in the field
- Overmold Technology used on inserts: sealing & reliability
- Blind-Mate connection: guide pin feature for quick and easy mating



RFM Series

Amphenol Socapex

- Blind mate, floating fixing
- High mating/unmating cycles (up to 5000)
- Power contacts (60 & 200 Amps)
- NF F 61-032 approved
- Available also : RFM Power



Rhino Rectangular

Amphenol Limited

- Rectangular format Rhino connector
- Multi-contact using Radsok power contacts
- Cable and Rack and Panel versions available
- Includes interlock contacts for hot mating
- Uses standard Rhino components
- Custom designs available

Distribution

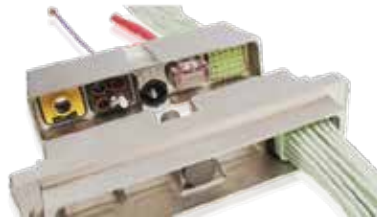
Modularity



ABS1152/3559 Series

Amphenol Air LB France

- 3559 series
- Push-Pull locking system
- Modularity (EN4165 modules)
- Sealed
- Lightweight composite
- 3 pins fixing on structure
- Sealed - IP66 / IP68 / IP69K
- Standard modules fitted with MIL-C-39029 / EN 3155 crimp contacts for electrical connection (size 23 / 22 / 20 / 16 / 12 / 8)



EN4165 / SIM Connector Series II

Amphenol Air LB France

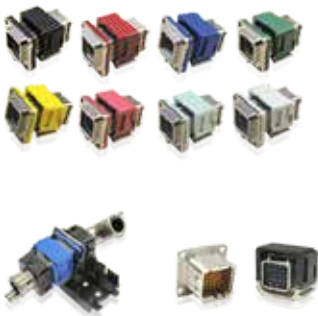
- EN4165 connectors (Qualification VG96513 pending)
- Clicker-Nut or Rack&Panel versions
- Shielding for EMC applications
- 36 coupling polarization
- Metallic or Lightweight composite
- Shells with Bright Nickel & Olive Drab Cadmium plating, or without plating



EN4165 / SIM Connector Series III

Amphenol Air LB France

- EN4165 connectors
- Clicker-Nut or Rack&Panel versions
- Shielding for EMC applications
- 36 coupling polarization
- Metallic connectors with Olive Drab Cadmium plating
- Sealed - IP66 / IP68 / IP69K



EN4165 / Sim Monomodule Connector Series (Arinc809)

Amphenol Air LB France

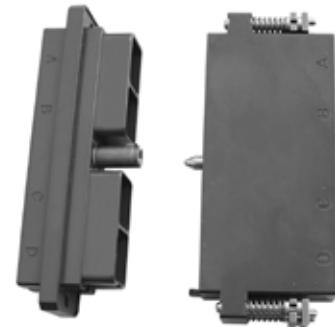
- EN4165 connectors
- Push-Pull locking system
- Shielding for EMC applications
- 7 coupling polarization
- Sealed - IP66 / IP68 / IP69K



SIM Splice

Amphenol Air LB France

- SIM splice series
- Derived from EN4165
- Lightweight composite
- Modularity (EN4165 modules)
- Fixing on structure or Feedthru
- With or without cable clamp
- Sealed - IP66 / IP68 / IP69K



EN4165 / SIM rack & panel solutions

Amphenol Air LB France

- Connectors for Rack & Panel applications
- Modular, to be used with the full range of EN4165 connectors
- Shielding for EMC applications
- 36 coupling polarization
- Shells with Bright Nickel & Olive Drab Cadmium plating

Circular I/O
Rectangular I/O
 Board Level Products
 Systems
 Clamps & Supports
 Distribution

Board Level Product



Signal - Board to board



HDAS

Amphenol Socapex

- Cost effective rugged connector for harsh environments
- 6-times starclip contact technology
- Robust and simple design
- High-density staggered grid
- High-performance to extreme conditions



HDB3 High Density HSB3 High Speed

Amphenol Aerospace

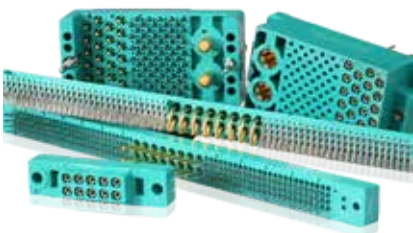
- 100,000 mating cycles
 - Operating Temperature of -65°C to 125°C
 - 36 unique keying combinations
 - HSB3 data rates up to 6.25 Gbps
- Connector Options:**
- HDB3 Mother Board Connector
 - HDB3 Daughter Board Connector
 - HDB3 I/O Connector
 - HDB3 Stacker Connector
 - HSB3 Mother Board Connector
 - HSB3 Daughter Board Connector



HE8/127

Amphenol Socapex

- Proven legacy product, which meets various worldwide standard (M55302)
- Various features, including a wide range of hardware and locking devices



M55302 Low Mating Force (LMF) Rectangular Connectors

Amphenol Aerospace

- In service for over 25 years, with over 50 million brush contacts fielded
- F-16 Falcon, F/A-22 Raptor, F-35 Lightning II, and many more applications.
- 0.100 inch center to center, square grid contact spacing
- Application flexibility (parallel boards, perpendicular boards, wire to board, end to end boards, card extenders)
- 2, 3 and 4 row contact arrangements with 10 to 100 contacts per row in one contact per row increments
- Military versions meet MIL-DTL-55302/166 through /172
- Termination versatility; straight & 90° PCB stud, wire wrap & crimp



SIHD/SIAL

Amphenol Socapex

- SIAL**
- Modular PCB interconnect, which provides various combinations of both signal and HF contacts inserts
 - Lateral displacer 0.4mm
- SIHD**
- Monolithic staggered grid connector, with floating capability feature

Signal - Board to board



NAFI Connectors

Amphenol Printed Circuit Board Technology

- Available in 2 through 4 rows to offers maximum design flexibility
- Tuning fork and blade contact system is a proven technology for high reliability
- Low insertion force (2.25oz/contact) for easy mating
- Compliant pin press-fit, throughhole and flex circuit termination styles available to support a variety of design application requirements
- Rugged machined aluminum frames - Ensures excellent performance in harsh environments

Signal - Wire to board



ASR Connectors

Amphenol Air-LB France

- All-in-one design & locking tabs allows for easy "mate & lock"
- Interfacial & rear grommet sealing to Mil-Spec Standards
- Also available with coax contacts
- High-performing SAE 39029 Series crimp contacts are standard
- D-Shaped Design: Enables simple polarization



EN4165 / SIM modules with PCB contacts

Amphenol Air-LB France

- Modules from 1 contact size 8 to 30 contacts size 23
- To be used with the full range of EN4165 connectors
- Available with straight or 90° angled contacts

Circular I/O

Rectangular I/O

Board Level Products

Systems

Clamps & Supports

Distribution

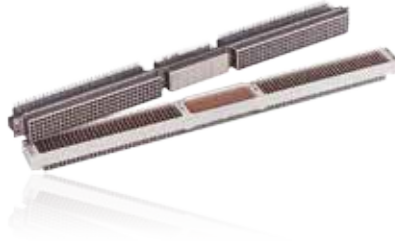
Signal - LRM



LRM Connectors Line Replaceable Module

Amphenol Aerospace

- Low Mating Force Connector with Bristle Brush Contacts
- LRM Connectors Chevron, Staggered, or GEN-X Grid
- LRM Connectors with Fiber Optic, RF, Power, or high- amperage RADSOK contacts
- Combinations of Power, Brush, Differential Pair, and Fiber Optic Termini
- High-Speed DigiStak and Gigastak Connectors capable of up to 6.25 Gb/s
- LRM Connectors with incorporated Flex Circuits



Ruggedized VME64x Interconnects

Amphenol Aerospace

- Metal shells - mount directly to the standard VME card mounting holes and create a Faraday cage around the contacts, preventing ESD (Electrostatic Discharge) into the contacts (module only)
- Robust contact system with the durable brush contact as the primary interface
- 3 module inserts in one unified shell; each can have different interconnect combinations
- Inserts are designed to customer specifications
- Thru-hole solder tail or solderless termination is available on the backplane connector



SMASH

Amphenol Socapex

- High-density advanced SEM E modular connector
- Provide superior modules to backplane interconnects
- Flexible circuit terminations for a higher density



UHD Connectors

Amphenol Printed Circuit Board Technology

- Compliant press-fit termination of backplane connectors provides a gastight interface with the printed circuit board without the need for soldering
- Tuning fork and blade contact system is a proven technology for high reliability
- Daughtercard connectors feature surface mount termination via rigid pins or flex circuit for maximum design flexibility depending on application requirements
- Rugged machined aluminum frames ensures excellent performance in harsh environments

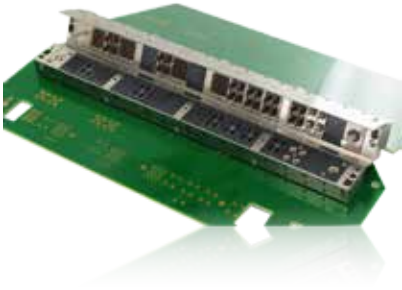


VIPER™ VPX Connectors

Amphenol Printed Circuit Board Technology

- High speed differential design offers proven 10 Gbps performance
- User configurable keying options mean a PCB notch is not required, simplifying PCB design and manufacturing
- Pressfit termination of both daughtercard and backplane connectors offers a proven and reliable method for easy installation.
- Four points of contact on signal pins provide high reliability even in high vibration applications
- VITA 46

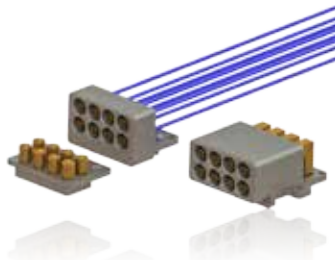
High Speed



Modular™

Amphenol Socapex

- A unique platform of proven technologies
- Extensive modular interface allowing the combination of all types of signals
- High-speed differential pairs, low-level signal contacts, press-fit power & high-power contacts
- Direct harness modules



VITA 67 Product Line

SV Microwave

- The foundational coaxial interconnect for RF on VPX platforms
- Floating SMPM coaxial contacts ensure excellent RF performance in any mating condition
- Designed for side-by-side implementation with VITA 46 hardware
- COTS versions available for 67.1 & 67.2
- High-reliability, high-density for aerospace & defense applications
- Robust and rugged high speed cabled solution



RVPX Connectors

Amphenol Aerospace

- Modular COTS lightweight connector system
- Low mating force connector system
- Pin-less backplane connector family
- Supports .8 inch card slot pitches
- Up to 140 signals per inch
- Can be combined with high power modules, RF modules (VITA 67) and Optical modules (VITA 66)

Circular I/O
Rectangular I/O
Board Level Products
Systems
Clamps & Supports
Distribution

Miniaturization



HDAS Small Size Connectors

Amphenol Socapex

- 2 & 3 rows, from 10 to 50 contacts
- Optimized fitting system (high compactness)
- Same components than existing HDAS range
 - High volume effect
 - Competitive solution
- 5A per contact, 750V DWV
- Keying / guiding / locking devices
- Daughterboard to motherboard / mezzanine / board to cables / board to flex



R-SATA Connectors

Amphenol Aerospace

- 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



SMASH

Amphenol Socapex

- High-density advanced SEM E modular connector
- Provide superior modules to backplane interconnects
- Flexible circuit terminations for a higher density

Notes

Circular I/O
Rectangular I/O
Board Level Products
Systems
Clamps & Supports
Distribution



Harnesses

Circular I/O
 Rectangular I/O
 Board Level Product
 Systems
 Clamps & Supports
 Distribution



711 Databus

Amphenol Limited

- A range of transformer couplers, connectors, contacts and terminators conforming to the requirements of MIL-STD-1553B
- In line and connectorised couplers
- Single and Multiway Connectors
- Size 10 contacts offering twelve bus lines in a shell size 24 connector
- Qualified for use on Eurofighter Typhoon and Tornado aircraft



Adapter Cables & Pigtails

Amphenol PCD

- Standard cable lengths (Adapter Cables): 8 in, 10 in, 12 in
- Standard cable lengths (Pigtails): 6 in, 12 in, 18 in
- Custom cable lengths are available
- Wiring, labels, & molding markings can be customized upon request
- Meets IPC-WHMA-A-620B
- Quick turnaround times



Cables

Amphenol Socapex / Amphenol Borish Technologies / Amphenol Griffith Enterprises

- Dedicated Program Management and Design Engineering Support
- Quick-Turn Prototypes
- Custom Backshells and mold transitions
- Custom Cable Design & Layup
- EMI Shielding
- Full In-House Test Capabilities: ESS & Electrical Test
- Strategic Supply Chain and Aggressive Material Cost Management
- Low Cost Manufacturing: Nogales, MX (ITAR Approved)



Electrical Harnesses

Amphenol Sefee

- Electrical Harness Design: 3D Harness Design for Installation
- Electrical schematics: Wiring List & BOM
- Form Board: 2D Routing
- Manufacturing engineering: Database extended with manufacturing tools, tool table, manufacturing files and test files
- Manufacturing: Wiring operations and inspections
- On site installation: Aerostructure integration
- Customer Support: Maintenance, repair, retrofit/upgrade



Ground & Shipboard Applications

Times Microwave Systems

- Fire Retardant (non-halogen)
- More QPL's (Qualified Product Listings) than any other manufacturer
- Excellent Shielding Effectiveness
- Rugged Abrasion Resistant
- Extra Strong Options available with ultra high pull and crush resistance
- Lowest Loss with best phase characteristics over temperature
- Environmentally sealed (IP-67) - in mated and unmated conditions



JD 38999 Series III Cordsets with Tactical Ethernet Cable

Amphenol Socapex

- 1Gb Cat5e, Cat6
- Reinforced PUR Jacket
- JD 38999 plugs on each side
- 1 port: 9-9 & 11-35 (NGVA)
- 2 ports: 13-35 (NGVA)
- Consult us for standard lengths

Harnesses



Micro-D Cables

Amphenol Borish Technologies

- Micro-Miniature connectors dense electronics packages
- QPL Approved: Ensures intermatatability and performance
- Cost effective & more reliable alternative to solder cup solutions
- Custom backshells and transitions for low profile applications
- Broad range of wire processing and cable types
- EMI Shielded Cables
- High Speed & Signal-Integrity Analysis



PCD Cable Solutions

Amphenol PCD

- Molded Cables for Tactical Digital Communication
- Custom Molded Cables for Harsh Environments
- PRC 117F/G and PRC-152 Radio / Data Cables
- Mil-22992 Class L Heavy Duty Power Cables
- Soldier Accessory Connectors and Cables
- Training and Simulation Cables
- High Speed Data Transmission Cables
- Ruggedized Ethernet Cable Assemblies
- Point to Point Ground Vehicle Wiring Harnesses (internal and external to enclosures)
- Cable Adapters



RJ45 TV CORDSETS WITH TACTICAL ETHERNET CABLE

Amphenol Socapex

- 1Gb Cat5e, Cat6
- Reinforced PUR Jacket
- 38999 based RJ45 plug on each side
- Consult us for standard lengths



USB MIL-DTL-38999 Series III

Amphenol Socapex

- MIL-DTL-38999 Series III plug on one side
- USB plug on one other side



Overmoulded Harnesses

Amphenol Limited

- Low-profile, low-cost cable systems
- Eliminates need for backshells
- Repeatable, known performance
- IP68 sealed cable to connector interface
- NBC compliant
- Features such as logos, finger grips can be moulded
- Special geometries



Fiber Optic Cable Assemblies

Amphenol Fiber Systems

- Complete fiber optic interconnect solutions, including cable assemblies for military, aerospace and industrial applications
- Incorporating the most popular harsh environment connectors, including TFOCA-II®, M28876, D38999, ARINC 801, TACBeam® and others
- Plug-and-play cable assemblies directly from the manufacturer offer the highest degree of confidence for the most demanding of applications
- Design and manufacturing for custom cable assemblies as well as build-to-print capabilities

Circular I/O
Rectangular I/O
Board Level Product
Systems
Clamps & Supports
Distribution

Electronic Packaging



Circuit Card Assemblies Complex/High-Density

Amphenol Borish Technologies/Invotec

- Dedicated Program Management Support
- Pre and Post Reflow Automated Optical Inspection (AOI)
- 3D X-Ray inspection
- Intensive NPI (New Product Implementation) process produces high yield initial builds and a repeatable manufacturing process
- Allows for mixed-technology assemblies (SMT, Thru-Hole)
- Full range of in-house testing capabilities for low and high volume production
- RF Board Assembly
- Select Solder
- Conformal Coating and Specialized Bonding



Electronic Boxes

Amphenol Sefee / Amphenol Limited

Remote data concentrator: RDC, Smart Bus Adaptor: SBA

- ARINC 429, ARINC 825, ARINC 826 compliant
- ARINC 429 to ARINC 825 conversion / ARINC 825 to ARINC 429 conversion
- ARINC 429 speed network adaptation up to 100kbit/s
- ARINC 825 speed network adaptation up to 1 Mbit/s
- 14 discretes I/O configurable
- Analog to digital conversion (voltage, resistance, thermistance measurement), transmit to ARINC 429 or ARINC 825
- Arbitrary waveform generation output
- Interconnection electrical bundle with automatic identification
- Configurable with an intuitive HMI



Ethernet Switches

Amphenol Socapex

- Managed/Unmanaged Military Ethernet Switches available
- Proven in severe, harsh environments
- Gigabit ports over field connectors (CTOS, RJF, 38999) and up to 10 Gbits/s over fiber



Jumpers : Harsh Environment Full Solution << ready to use >>

Amphenol Socapex / Limited / AAO / Invotech / Sefee / Ionix

Amphenol Know-How:

- Board connectors (HDAS)
- I/O connectors (38999, RJ, PT...)
- PCB manufacturing
- Flexible circuits manufacturing
- Circuit board conception
- Full assembly

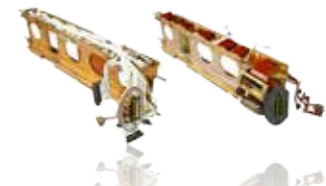
> Let's Amphenol provide you a READY TO USE solution



Media Converter

Amphenol Socapex / Aerospace / Fiber System

- Amphenol Fiber Systems International 10, 20 and 40Gb transceivers
- Copper to fiber transition in a rugged package
- Harsh environment transceiver support extended temperature range and military vibration/shock requirements
- Supports single mode or multi-mode operation
- Keeping the fiber outside the enclosure means simpler integration
- Interface with ARINC, EN and TFOCA interconnects



PWB Design Service

Amphenol Printed Circuit Board Technology / Amphenol Invotec

- Stackup & construction development
- Impedance modeling and current requirement characterization
- Signal integrity simulation and analysis
- Full DFM analysis ensuring optimal producibility of new designs
- Material evaluation and recommendations based on application needs
- Non-functional and functional mockup development and build.
- All pwb types such as rigid, flex and rigid-flex are supported
- USA or UK/EU manufacturing options

Backplane



Backplane Assembly

Amphenol Printed Circuit Board Technology

- Press-Fit
- Automated Press-fit
- Automated Xray Solder Joint Evaluation
- BGA/Hot Gas Rework System
- Jet Soldering
- Automated Soldering
- Fine-pitch/SMT
- ESS Thermal Cycling Chambers
- Automated Conformal Coating Application
- Automated continuity/isolation testing
- Potting/Encapsulation
- Continuous Wave Soldering

Circular I/O
Rectangular I/O
Board Level Product
Systems
Clamps & Supports
Distribution



Clamps & Supports

Electrics



ABS1339 & ABS1339Light Cable Clamps

Amphenol Air-LB France

- ABS1339 series and ABS1339 Light series (18% weight saved)
- 100% composite and silicone
- Accessories for cable harness fixing on structure
- Available in 8 sizes for cable diameters from 5 to 48 mm
- For standard use (Brown silicone) or Fuel zone (blue silicone)
- Lightweight composite and silicone



ABS2195 / CC5516 Cable Clamps

Amphenol Air-LB France

- 100% composite and silicone
- Up to 60% weight saved compared to NSA5516 metallic clamps
- Accessories for cable harness fixing on structure
- Available in 37 sizes for cable diameters from 3 to 60 mm
- For High temperature use
- Operating temperature : -55°C to +200°C (permanent)



Wiring accessories

Amphenol Air-LB France

- Cable harness maintained on the cable accessory by cable tie
- Variety of sizes and shapes : accommodates different cable routing requirements
- Lightweight and Durable: simplifies wire bundle installation & maintenance
- Fixing on structure (by screw), on shaped supports or bended supports
- Operating temperature : -55°C to +135°C (permanent)



LDG P-Clamps

Amphenol PCD

- Overmold technology: Cushion will not come off or slide off
- High temperature resistance; Chemical resistance
- Completely Non-Corrosive & Non-Conductive
- Withstands constant vibration and shock loads
- Available in 17 different sizes



Frame & Stringer Clips

Amphenol PCD

- Different types (L-Frame/P-Frame, S-Frame, and Anchor Support) & different material (Nylon 6/6 (PA), Ultem (PEI), PEEK)
- FAR25-853 compliance - meets high temperature requirements
- Multiple colors helps identify different sizes
- No loose parts reduces the likelihood of FOD & minimizes maintenance costs



Harness & Hat Support

Amphenol PCD

- Multiple fixing points: Offer convenience and ease of use
- One-Piece design: simplifies installation and inventory management
- Variety of sizes: accommodates different cable routing requirements
- Lightweight and Durable: simplifies wire bundle installation & maintenance

Circular I/O

Rectangular I/O

Board Level Product

Systems

Clamps & Supports

Distribution

Electrics



ABS1424 accessories

Amphenol Air-LB France

- Lightweight thermoplastic
- Operating temperature : -55°C to + 85°C
- Suited for different structure thicknesses
- 2 functions in 1 product (depending on the PN) :
- Fixing on structure (by screw or with removable locking pin)
- Cable clamp (ex ABS 1339) are fixed by screw
- Conform to ABD 031 and FAR 25853



ABS2225 accessories

Amphenol Air-LB France

- Lightweight thermoplastic
- Operating temperature : -55°C to + 85°C
- Wide range of track length (1 up to 24 parts)
- 4 mounting positions on structure (0° / 90° / 180° / 270°)
- Cable accessories (ex ABS 1339) can be fixed on 3 sides of tracks
- Conform to ABD 031 and FAR 25853



P-Clamps & Omega Clamps

Amphenol PCD

- Overmold technology: Cushion will not come off or slide off
- High temperature resistance; Chemical resistance
- Completely Non-Corrosive and Non-Conductive
- Withstands constant vibrations and shock loads
- Available in multiple size

Hydraulics



Pipe Clamps ABS14XX Series

Amphenol Air LB France

- Lightweight monoblock pipe clamps
- Hydraulic pipes fixing on structure.
- For standard use (Brown silicone) or Fuel zone (blue silicone)
- Pipes protected from vibration by over-molded elastomer
- Closing and fixing on structure by screw
- Available from 1 to 5 holes / various and mixed diameters (from 6.3 to 19 mm)



ABS1688 accessories

Amphenol Air LB France

- Lightweight thermoplastic
- Operating temperature : -55°C to + 85°C
- Suited for different structure thicknesses
- 3 functions in 1 product (depending on the PN) :
- Fixing on structure without tool (with removable locking pin)
- Pipe maintaining with locking system (with removable locking pin)
- Ensure the required centre-to-centre distance between pipes (pipe position secured)
- Conform to ABD 031 and FAR 25853



ABS1694 accessories

Amphenol Air LB France

- Lightweight thermoplastic
- Operating temperature : -55°C to + 85°C
- Suited for different structure thicknesses
- 2 functions in 1 product (depending on the PN) :
- Fixing on structure (by screw or with removable locking pin)
- Pipe maintaining with locking system
- Conform to ABD 031 and FAR 25853

Circular I/O
Rectangular I/O
Board Level Product
Systems
Clamps & Supports
Distribution

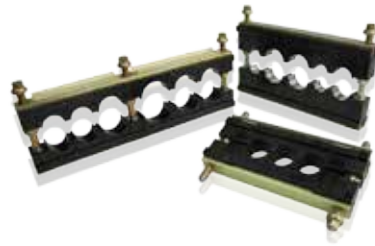
Hydraulics



ABS1695 accessories

Amphenol Air LB France

- Lightweight thermoplastic
- Operating temperature : -55°C to + 85°C
- Suited for different structure thicknesses
- 2 functions in 1 product (depending on the PN)
 - Fixing on structure (by screw or with removable locking pin)
 - Pipe maintaining with locking system
- Conform to ABD 031 and FAR 25853



Modular Pipe clamps

Amphenol Air LB France

- Hydraulic pipes fixing on structure
- Tangential or On axis alignment
- Closing and fixing on structure by screw
- Available in conducting versions
- Available for various and mixed diameters (from 4 to 32 mm)
- Operating temperature : -55°C to +100°C (permanent)



FairLead Blocks

Amphenol PCD

- High Performance Materials are strong, durable, & lightweight
- Multiple diameter options can meet a wide range of tube diameters
- Multiple material options provide many choices per specific requirement
- No loose parts reduces the likelihood of FOD & minimizes maintenance costs

Circular I/O

Rectangular I/O

Board Level Product

Systems

Clamps & Supports

Power Distribution

Distribution



Signal

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Distribution



M81714 Series I Terminal Junction Modules

Amphenol PCD

- Mil-T-81714 Approved: Meets high quality standards
- M39029/1 contacts: Meets military specification Mil-C-39029
- Various types and configurations - Feedback/ Feedthru, Electronic, In-Line Splice and Ground



M81714 Series II Terminal Junction Modules

Amphenol PCD

- Mil-T-81714 Approved: Meets high quality standards
- M39029/22 contacts: Meets military specification Mil-C-39029
- Multiple product types
 - Wide range of products to choose from
 - Four standard sizes
 - Accommodates 12-26 AWG wires
- Feedback Modules: Lightweight junction system with a full range of bussing arrangements
- Distribution Modules
- Ground Modules
- Board Mount Pin Modules



Component carrier Modules 1765 series

Amphenol Air LB France

- Distribution device for wiring optimization
- Suited to be used with up to 3 components in one 1765 module (diode, fuse, resistors,...)
- Sealed connection : IP66 / IP68 and IP69K
- Mounted on 1750 series tracks. Snap in system.



In Line Junctions 1119 series

Amphenol Air LB France

- In Line junction or Component carrier (fuse, resistor, diode)
- Thin and easy to use : perfectly suited in a cable harness to simply and quickly repair a damaged wire or add a component
- Sealed connection
- From 1 to 4 contacts (size 20 / 16)



Quick Junction Modules 1100 series

Amphenol Air-LB France

- 1100 series
- Distribution device for wiring optimization
- High contacts density for low space applications
- Sealed connection : IP66 / IP68 / IP69K
- Many contact layouts & Bussing variations from 21 cts#22 to 6cts #12 + Mixed layouts

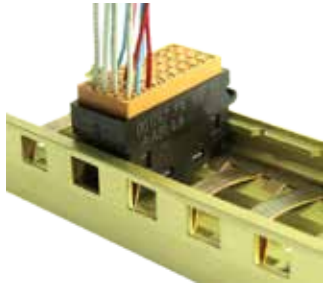


Quick Junction Modules 1750 series

Amphenol Air-LB France

- Distribution device for wiring optimization
- Less cable used to save weight, space and cost
- Very High contacts density for low space applications
- Sealed connection : IP66 / IP68 and IP69K
- Many contact layouts & Bussing variations from 36 cts#22 to 8cts #12 + Mixed layouts
- Mounted on tracks. Snap in system.

Signal



Junction module with Positive Locking 1767PA series

Amphenol Air LB France

- Distribution modules for wiring optimization (cable linear meters : weight, space and cost saving)
- Positive locking to ensure contacts are properly locked in
- Very compact design and high contact density
- Overmold Technology offering excellent sealing performances
- Versatility of mixing on metallic or composite tracks



Ground Modules 1758 series

Amphenol Air LB France

- Distribution modules for grounding applications
- Suited for wiring optimization (cable linear meters : weight, space and cost saving)
- Very compact design and high contact density
- 2 versions : Individual mounting brackets or mounted on metallic tracks
- Overmold Technology offering excellent sealing performances



Low Frequency Signal Distribution Module Arinc 429

Amphenol Air LB GmbH

- ARINC429 is an avionics equipment and system communications specification using twisted pair wires
- Designed for ARINC 429 signals
- Outer dimensions according to Series 1750 and mountable on same rails
- Up to 6 input/output port connections per module
- Concentrates signals, lowering weight through reduced wire run length

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MonoBlock Assemblies 3240 / 3242 Series

Amphenol Air LB France

- Monoblock assembly for Power distribution
- For copper or aluminum cables
- Available with individual or shunted terminals, from 1 to 12 terminals, in different diameters.
- Protective cover fixing, and mounting on structure by pillar bolts
- Up to 350 Amps permanent



Bus Bars and Power Distribution Bars

Amphenol Air LB France

- Lightweight aluminum distribution bus bars
- Available in various standard sizes and shapes (custom design)
- High mechanical resistance
- Up to 200 Amp
- Operating temperature : -55°C to +150°C (permanent)

Notes

Notes

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