Amphenol

HARSH ENVIRONMENT SOLUTIONS

EUROSATORY

17>21 JUNE 2024

www.amphenolmao.com

Amphenol

Amphenol Corporation is one of the world's largest interconnect manufacturers.

Founded in 1932, Amphenol designs, manufactures, and markets electrical, electronic, and fiber optic connectors, interconnect systems, and coaxial and specialty cables.

Amphenol products are engineered and manufactured in Europe, the Americas, Asia and sold by a worldwide sales and marketing organization.

Amphenol is perfectly aligned to provide the latest technologies, cost-effective manufacturing and supply chain management, and local support to meet any military and aerospace interconnect need.

MILITARY MARKETS

C5ISR - Battlefield Communications

Ground Vehicles & Armoured Vehicles

Naval

Avionic & Airframe

Missiles

Space

Soldier Equipments

KEY APPLICATIONS WE SUPPORT

Integrated C5ISR systems,

Vetronics,

High speed real time video systems,

Radar, ground, surface and aerospace surveillance equipments,

Communication devices and sensors,

Electro-optic/infrared systems,

Signal and image processing equipments,

Field Ethernet connections for rugged computers.

Amphenol is the interconnect technology partner of choice.

Global Network Solutions

Amphenol offers solutions for the evaluation and implementation of communication networks on the battlefield.

Our robust and sustainable solutions give you the assurance of continuous data transmission securely between all your communication equipments in harsh environments.

We design Ethernet Networks and supply interconnection products – electrical and fiber optic connectors and cables, Ethernet Switches, electrical & Fiber Optic Converters.

HDMI FTV

MDP FTV

Rugged RJ FIELD solutions

Ethernet Switches
MIL-STD-461
MIL-STD-810

TVµCom & µCom
USB3.2 Gen1

Media Converters
MIL-STD-461
MIL-STD-810

Ethernet
Contacts

Rugged USB
FIELD Solutions

HD38999
High Density
connectors

USB Type C Field

2M Series
Micro & lightweight connectors

Cabling Systems
Copper and Optical connections,
Power connector and cordsets

Terrapin
Push-pull miniature
connectors

387TV - Size 7
connectors

CTOS / CTOL
Fiber Optics Expanded Beam
Singlemode & Multimode
Hermaphroditic connectors

PowerSafe - 13A to 100A
Safe connection and
disconnection under load

TACBeam
Fiber Optics Expanded Beam
Hermaphroditic connectors

Power Devices

Lux-Beam™
Single Expanded Beam Termini
For #12 & #16 38999
standard cavities

MPO MTP Field

**For Continuous &
Secure
Data Transmission**

Contents

Contents

BOOTH
AMPHENOL
EUROSATORY
17>21 JUNE 2024

USB3CF TV

NEW

· Thread coupling, MIL-DTL-38999 series III type.
· Fully reversible connector, various data transmission capabilities and power delivery.
· Sealed against fluids and dusts (IP68).
· Shell size 11.

Amphenol Socapex

USB3 Type A - Type C - Adapter

NEW

· Tri Start Thread coupling mechanism (MIL-DTL-38999 series III type) - Shell size 15.
· 2 mechanical coding/polarization possibilities by the user. (receptacle insert rotation)
· Sealed against fluids and dusts (IP68).

Amphenol Socapex

Access point USB3AP

NEW

· Data transmission:
USB specification 3.2 Gen 1.
· Data rate: up to 5GB/s for high speed USB.
· USB-A interface.
· USB2.0 backward compatible.
· Sealing level: IP54 when not mated.
· Temperature range: -40°C / +85°C.
· RoHS compliant.

Amphenol Socapex

USB2 & USB3 AMPLIFIERS

NEW USB3 Amplifier

· Based on MIL-DTL-38999 series III.
· Dedicated to applications where the USB cable length is longer than 4.8 meters which is the limit of USB specification.
· Extension cord of 4.8 m (15,7 ft), 4 time stackable in order to reach 19.2 m (63ft).
· Self-powered.

Amphenol Socapex

USB3F TV

· USBFTV : USB2.0 and USB3.2 Gen1.
· Based on MIL-DTL-38999 series III/size 15.
· No cabling operation and in field and no tools required.
· Aluminum, Stainless Steel and Marine Bronze shell.

Amphenol Socapex

RJF TV Cat5e, Cat6, Cat6A

· Sealed against fluids and dusts (IP68).
· Shock, vibration and traction resistant.
· No cabling operation in field and no tools required.
· Mechanical coding/polarization (4 positions).

Amphenol Socapex

Reinforced USB Memory Keys

· Based on MIL-DTL-38999 series III.
· USB 3.0 for capacities 32, 64, 128 & 256 GB 512.
· IP68, -40/+85°C.
· MIL-STD-810G vibrations.
· MLC Memory with Wear levelling providing 3000 read/write cycles.
· MTBF: 1,000,000 hours.
· Higher capacities: please consult us.

Amphenol Socapex

µCom & TVµCom

· Exceeds 10Gb/s Ethernet following IEEE 802.3an-2006 : 10GBase-T.
· Cat.6A connector according to TIA568C.2 and ISO/IEC11801 standard.
· 4 pairs totally insulated throughout the connector for minimum cross-talk between the four pairs.
· Turned gold plated contacts, crimp and solder.

Amphenol Socapex

MDP FTV

· Tri Start Thread coupling mechanism (MIL-DTL-38999 series III type) with anti-decoupling device.
· Shell size 13.
· Data Transmission :
  - Display 1.4 protocol :
    - Transmission bandwidth :
32.4 Gbit/s with 8.1 Gbit/s per lane.

Amphenol Socapex

HDMI FTV

· Tri Start Thread coupling mechanism (MIL-DTL-38999 series III type) with anti-decoupling device.
· No cabling operation in field and no tools required.
· Data Transmission:
  - HDMI 2.0 protocol :
    - Transmission bandwidth :
      18Gbit/s with 6 Gbit/s per lane.
    - Can support 4K UHD :
(3840 × 2160) at 60 Hz.

Amphenol Socapex

Centaur High Bandwidth 38999 Connectors

· In order to meet the demand for 38999-style connectors capable of high bandwidth data transmission, Amphenol's Centaur interconnect utilizes the advantages of our extensive legacy of Mil-Spec connectors and the latest in high-speed contact and connector technology.

AMHS

TV & CTV - D38999 Series III

· MIL-DTL-38999 series III and EN3645 qualified connectors.
· Large variety of contact arrangements and shell styles.
· Metal shells (Aluminum, Bronze and Stainless steel) or composite shells with a large choice of platings including RoHS & Reach solutions.
· Contacts from size 23 to size 4.

Amphenol Socapex
Amphenol Aerospace

JT - 38999 Serie II

· Low profile design lightweight & space saving.
· 9 shell sizes from 08 to 24.
· More than 60 contacts arrangements, from 1 to 128 contacts.
· Several materials & platings available, with RoHS & REACH compliant versions.

Amphenol Socapex
Amphenol Aerospace

LJT - 38999 Serie I

· 100% scoop proof design.
· Bayonet coupling connectors with a large variety of contact arrangements and shell types.
· More than 60 contacts arrangements, from 1 to 128 contacts.

Amphenol Socapex
Amphenol Aerospace

38999 Power

· Derived from MIL-DTL-38999 series III.
· More than 25 inserts, including power & signal mix.
· 8 shell sizes from 11 to 25.
· Equipped with ruggedized power inserts up to 250A .
· Several materials & platings available, with RoHS & REACH compliant versions.

Amphenol Socapex

TV-CTV with 75 ohms coaxial contacts

· Derived from MIL-DTL-38999 series III.
· More than 50 inserts, including high speed & signal mix.
· 9 shell sizes from 09 to 25.
· 75 Ohms coaxial contacts for HD & 3G-SDI video transmission.
· Several materials et platings available, with RoHS & REACH compliant versions.

Amphenol Socapex

38999 Reduced Flange

· Derived from MIL-DTL-38999 series III version.
· For jam nut (TV07/TVS07) configurations.
· 41% average footprint surface reduction.
· 20% in average lighter than standard 38999 stand off receptacle.

Amphenol Socapex

TIN ZINC **NEW**

Black Tin Zinc

· Amphenol Socapex's Black Tin Zinc is the real subtitute to Olive Drab Cadmium plating on Aluminum.
· RoHS Compliant, Cr6+ free & does not contain any SVHC - Substances of Very High Concern (REACH).

Amphenol Socapex

PowerSafe

· Designed for Power application up to 500V with user safety (following EU standard EN-61984 former VDE 0627).
· First mate/last break & Last mate/first break technology.
· 7 contacts arrangements for Three phase and Single phase applications.
· VG96944 Qualified product (only 13-V4, 17-V6, 25-V6) both in ODC and Tin Zinc finishes.

Amphenol Socapex

NEW

AP-93

· AP-93 is a conductive REACH/RoHS compliant finish that outperforms Cadmium. AP-93 exceeds Olive-Drab Cadmium plating (Class W) by meeting 1000 hours of dynamic salt spray, 500 mating cycles, and meets the millivolt drop shell-to-shell conductivity of nickel (Class F).

Amphenol Aerospace

RNJ - HE308 - Rack & Panel

· Rack and panel range derived from HE308 / 38999 series I
· 8 shell sizes from 11 to 25.
· Realignment capabilities & floatability on 3 axis.
· Quick and easy connection, 100% scoop proof design.
· Several materials et platings available, with RoHS & REACH compliant versions.

Amphenol Socapex

RNJ Reduced Flange Rack & Panel

· Derived from RNJ - HE308 Rack & Panel connector.
· 8 shell sizes from 11 to 25.
· Same realignement capabilities than RNJ (3 axis).
· For Jam Nut Plugs & Receptacles, with maximum weight / space savings.

Amphenol Socapex

RNJLP - Low Profile

· Shorter distance between panels, derived from RNJ - HE308 Rack & Panel connector.
· 8 shell sizes from 11 to 25.
· Same realignement capabilities than RNJ (3 axis).
· Quick and easy connection, 100% scoop proof design.
· Several materials et platings available, with RoHS & REACH compliant versions.

Amphenol Socapex

SC39 Quick disconnect

· Light, small and strong breakaway connector derived from MIL-DTL-38999 series III.
· Available with all 38999 series III contacts arrangements.
· High-speed, power, signals contacts.
· Many options (lanyard, integrated backshell, stand-off).
· Available in aluminium and stainless steel

Amphenol Socapex

387TV – Size 7 connectors

NEW

· Smallest connector derived from 38999 Series III.
· Insulator size 9 encapsulated in a size 7 shell.
· Metal shell with integrated backshell, reduced flange and stand-off options.
· Several platings available including RoHS & Reach options.
· Available in High Speed version (Coax, Twinax, Quadrax, Octomax).

Amphenol Socapex

Series Five

NEW

- Amphenol's new Series Five connector is the next evolutionary step in combining all of the capabilities of the traditional 38999 style connector in a lighter, smaller, and more compact package to support the aerospace industry's ever-changing demands.
- 38999-Qualified Insulator and EMI Spring.

Amphenol Socapex
Amphenol Aerospace

High Temperature Series Five Connector

NEW

· High Temperature Series Five connectors are the ideal solution for interconnect and electrical wire assemblies near engines, firewalls, and other high-heat sources.

Amphenol Socapex
Amphenol Aerospace

2M801

· Micro-miniature circular connector.
· Heavy Dual-Start ACME Thread.
· 10 shells sizes from 05 to 21.
· More than 40 contacts arrangements, from 1 to 130 contacts.
· Two Plug Styles: Ratcheting and Anti-Decoupling.

Amphenol Socapex
Amphenol Aerospace

2M803

· Micro-miniature circular connector.
· Bayonet Coupling.
· Quickest turn-mating of the 2M series.
· More than 45 contacts arrangements, from 1 to 130 contacts.
· Lightest of the 2M series.

Amphenol Socapex
Amphenol Aerospace

2M804

· Micro-miniature circular connector.
· Push-pull / Quick-Disconnect coupling.
· Excellent EMI shielding.
· More than 35 contacts arrangements, from 1 to 85 contacts.

Amphenol Socapex
Amphenol Aerospace

2M805

· Micro-miniature circular connector.
· Tri-Start fast coupling.
· Dedicated to harsh environment applications.
· More than 45 contacts arrangements, from 1 to 85 contacts.
· Excellent EMI shielding.
· From 1 to 130 contacts.
· Superior vibration resistance & excellent EMI shielding.

Amphenol Socapex
Amphenol Aerospace

2M Python

· Micro-miniature circular connector.
· Tri-Start fast coupling.
· Dedicated to harsh environment applications.
· More than 45 contacts arrangements, from 1 to 85 contacts.
· Excellent EMI shielding.
· From 1 to 130 contacts.
· Superior vibration resistance & excellent EMI shielding.

Amphenol Socapex
Amphenol Aerospace

2M Space Saver

· The 2M Space Saver right-angle EMI/RFI low-profile plug and backshell combination reduces the profile of your plug by 50% compared to a standard 2M801 while maintaining ruggedization and dependable shielding. This innovative micro-miniature combination significantly reduces space requirements without compromising ruggedness or performance.

Amphenol Socapex
Amphenol Aerospace

2M Hermetic

· Amphenol 2M Hermetic micro-miniature connectors offer a superior hermetic seal while offering the same durability of MIL-DTL-38999 connectors but with less than half the size and weight.

Amphenol Socapex
Amphenol Aerospace

2M Filters

· Amphenol® EMI Protection Connectors have been designed and manufactured for over 45 years. Our EMI protection connectors offer the versatility of our standard 2M connectors with EMI protection to suit the demands of your application.

Amphenol Socapex
Amphenol Aerospace

Warrior Grip Soldier-Worn Push-Pull Connectors

NEW

· Intermateable with Existing Nett Warrior Push-Pull Connectors.
· Warrior Grip Contact System - 10 Amp Capability in a Size #23 Contact
· Unmating Force of 13 +/- 3 lbs; won't disconnect until they should.
· Diverse Range of Mounting Options for Both Plugs and Receptacles.

*Amphenol Socapex
Amphenol Aerospace*

VG95234 Power insert arrangements

· Interface connector with VG appro-ved insert arrangement 32A8 for power-applications, consumers and generators 5 + 20 kW according to standard VG96968.

Amphenol Air LB GmbH

GCC (Audio Connector)

· 10 pin audio connector series for communication and radio devices in harsh conditions.
· Gold plated spring contacts.
· 5000 mating cycles.

Amphenol Air LB GmbH

Terrapin

· Miniature footprint.
· Quick release breakaway or latched.
· From 7 to 37 contacts.
· Sealed to IP68, up to 20m immersion.
· 2000+ matings.
· Multiple keying options.

Amphenol Limited

Terrapin - Micro USB

NEW

· Industry standard Micro-USB interface.
· High Speed USB 2.0 specification.
· Backshell for strain-relief and screen termination.
· Miniature footprint <16mmØ.
· Intermateable with standard COTS Micro-USB plugs.

Amphenol Limited

62GB

· Miniature Bayonet-Lock connectors.
· Optimised for ground communications eqpt.
· Mulitple plating options available, including Black Zinc Nickel (RoHS).
· Solder contact termination.
· Wire gauge 24AWG to 8 AWG.
· Operating Temp -55°C to +125°C.
· Solder contact termination.

Amphenol Limited

RHINO 38999

· Up to 1000A current rating.
· Hyperbolic contact design.
· Touch-Protected Contacts.
· Safe Mating Design.
· MIL-DTL-38999 Series III design features.
· MIL-DTL-38999 panel cut-outs.
· RoHS Compliant.
· Sealed to IP68 (mated).
· Low profile 90 degree option.

Amphenol Limited

RHINO GUARD

NEW

· Includes Safety 'Interlock' Guard Contacts.
· Up to 1000A current rating.
· Hyperbolic contact design.
· Touch-Protected Contacts.
· Safe Mating Design.
· MIL-DTL-38999 Series III design features.
· MIL-DTL-38999 panel cut-outs.
· RoHS Compliant.

Amphenol Limited

RHINO 38999 Marine Bronze

· Up to 1000A current rating.
· Hyperbolic contact design.
· Touch-Protected Contacts.
· Safe Mating Design.
· MIL-DTL-38999 Series III design features.
· MIL-DTL-38999 panel cut-outs.
· RoHS Compliant Marine Bronze materials.

Amphenol Limited

GCE / VG96929

NEW

· Single pole power solution for ground vehicles.
· Shell sizes 16 to 32 for wire sizes 25mm² to 240mm².
· Current load up to 900A.

*Amphenol Air LB GmbH
Amphenol AirLB France*

GCB-M

NEW

· GCB-M Series (VG96955 in progress).
· Reverse Bayonet connector accor-ding to VG95234 + Modular contact options according to EN4165.
· Shell size 32.
· More than 230,000 different pole images possible.
· Contacts AWG 23 - AWG 8, FO contacts (MTP, MPO), RJ45, HF contacts.

Amphenol Air LB GmbH

TV SIM connectors

· Circular shell for EN4165 - TV SIM - GCB-M.
· Standard circular based on shells MIL-DTL-38999 or MIL-C-5015.
· Modularity, up to 4 modules EN4165.
· Reverse bayonnet or thread coupling.

Amphenol AirLB France

Circular Micro-D Series

NEW

· Circular format micro - contacts meet requirements of MIL-DTL-83513.

Amphenol Canada

RAPTOR

NEW

· TALON high temperature contacts.
· Shell Sizes 15 to 25.
· Silver Plated Copper Contact.
· Nickel Plated Aluminium Connector housings.
· Insulator material for High Voltage.
· Increased creepage & clearance distances.
· Improved insulation geometry for HV electric fields.

Amphenol Limited

RAPTOR Feedthrough

NEW

· TALON high temperature contacts.
· Shell Sizes 15 to 25.
· Silver Plated Copper Contact.
· Nickel Plated Aluminium Connector housings.
· Insulator material for High Voltage.
· Increased creepage & clearance distances.
· Improved insulation geometry for HV electric fields.

Amphenol Limited

Databus

· Single contact data bus connectors with EMI and environmental shielding.
· Operates in temperatures from -55°C to 150°C.
· PBC mounted versions can be supplied.
· Qualified to PAN 6484 and JN1032 for use on Tornado and Typhoon Aircraft.

Amphenol Limited

1760 Weapons Release

· Meets the requirements of MIL-STD-83538.
· Aircraft (ASI), Missile (MSI) and Buffer components available.
· Connector interface is MIL-DTL-38999 25-20 contact arrangement.
· Includes signal, Coax and Twinax contacts.
· Fibre optic contacts also available Inter-Series Buffers.

Amphenol Limited

MIL-DTL-83723 (Pyle)

· The Amphenol MIL-DTL-83723 Series III family of connectors includes styles from Pyle National. These have proven technology for severe environments and are widely used in commercial and military aerospace markets. Amphenol/Pyle 83723 connectors incorporate many advantageous features, such as a unique threaded coupling mechanism that provides greater resistance to decoupling.

Amphenol Aerospace

Commercial Class L

· Amphenol Commercial Class L heavy duty power connectors are the commercial equivalent of the MIL-DTL-22992 qualified connectors - our largest size cylindrical connector. These ruggedized high amp connectors are available only in the specific configurations defined by the MIL-DTL-22992 specification.

Amphenol Aerospace

QWLD Connectors

· QWLD Series heavy duty electrical connectors provide reliable power and control functions in hostile environments where ordinary connectors cannot survive. QWLD connectors are ruggedized, highly durable, and are waterproof and explosion proof.

Amphenol Aerospace

High Power 38999

NEW

· The Amphenol Tri-Power connector series incorporates your choice of RadSok contacts, Temper-Grip High Current contacts, or standard high power contacts. Paired with the proven performance of the MIL-DTL-38999 connector series, the Tri-Power series offers a variety of tooled arrangements specifically designed to carry high current (70 to 250 amps per contact, 240 to 1000 amps per connector).

Amphenol Aerospace

D38999 Series III Breakaway Fail-Safe

· Amphenol is qualified to provide D38999/29, /30. and /31 Types 1, 2, and 6 breakaway connectors. The D38999/31 connectors are also available in a hybrid design which have a composite outer operating sleeve over a metal shells for greater durability. Amphenol is also qualified to provide MIL-STD-1760 Type II rail launch connectors.

Amphenol Aerospace
Amphenol Limited

D38999 Series III Hermetic

· Amphenol Tri-Start MIL-DTL-38999 Series III Hermetic Connectors offer the highest performance capabilities for both general duty and severe environment applications and meet or exceed MIL-DTL-38999 Series III requirements.

Amphenol Aerospace
Amphenol Limited

Aquacon Hermetic Connector

· A specially designed aluminum bronze coupling nut and type 316 stainless steel shells resist corrosion and provide a pressure withstanding connector. Positive threaded coupling. "O" rings, and a color band visual indicator assures sealing and proper mating. A rear accessory thread provides for the use of EMI hardware or molding adapters.

Amphenol Aerospace

Ranger series miniature connectors

- Compatible with ODU Product.
- Push/Pull and Breakaway Mating.
- High Current Capacity.
- High Speed USB 3.0.
- Up to 55 Pin Counts with various shell sizes.
- Pin and Socket.
- Solder and Crimp Termination.
- 4 Polarized Keying Configurations available.

Amphenol India

Blind Mate Connectors

Stingray

- Magnetic mating mechanism.
- Non-keyed rotatable 'blind mating.'
- Wipe clean interface featuring sprung-loaded pogo contacts.
- 10,000+ mating cycles.
- Compatible with Power, USB 2.0 and Audio signal requirements.

Amphenol Limited

Cryo-Seal Hermetic Connector Series

NEW

- The Cryo-Seal Hermetic connector series is designed for extreme low-temperature environments. They are built to retain contact-to-contact sealing in temperatures as low as -319 °F (-195° C).

Amphenol Aerospace

AmpheSEAL High Pressure

NEW

- The AmpheSEAL connectors provide sealing between the plug and receptacle interfaces and have been tested to withstand pressure to at least 300 PSI. Not intermateable with standard products. Must use AmpheSEAL on both sides of mated pair.

Amphenol Aerospace

Deep Space 38999

NEW

- The Deep Space 38999 Connector series is designed for extreme cold-weather environments. They are built to retain a grommet-to-wire and contact-to-contact seal in temperatures beyond -85 °F (-65 °C), with inserts that have been cycle tested between -148 °F (-100 °C) to 392 °F (200 °C).

Amphenol Aerospace

Ram-Lock with High Power Contacts

NEW

- Amphenol's Ram-Lock interface is a positive locking, push-pull connector technology that is available across many different product lines. The single pole Ram-Lock design consists of high current contacts proven for use in high amperage applications.

Amphenol Aerospace

High Voltage 38999

NEW

- The High Voltage 38999 line of connectors is an expansion of the MIL-DTL-38999 series and is designed to provide high voltage solutions for next-generation aircraft power requirements. Future power distribution architecture is moving toward higher voltages than what standard connectors are designed to accommodate.

ACAD

Matrix 38999

- A hybrid of the High Power Matrix 5015 series and D38999 military connector, Amphenol's High Power Matrix 38999 connector uses mil-spec qualified inserts from the Matrix 5015 and combines them with the mechanical interface of the D38999 to bring you the best of both worlds.

Amphenol Aerospace

MIL-DTL-5015 Reverse Bayonet 97B Connectors

- Quick positive coupling Audible and tactile indication of full coupling.
- Waterproof.
- No lockwiring required.
- High shock and vibration capabilities.
- Operating temperature range with Neoprene inserts: -55 Deg C to +125 Deg C.

Amphenol India

AV87

NEW

- VITA 87 Complaint High-Density MT ferrule based D38999.
- 3 Shell Sizes, 11-1,13-2, 15-4.
- Supports X12 and X16 MT Ferrules. MM, SM, UPC/APC and Expanded Beam.
- Up to 64 fibers per ferrule
- Utilizes industry standard MT hardware. No proprietary mounting kits.

Amphenol Fiber Systems International

Terrapin - Filtered

- An EMI Planar Filtered Terrapin connector.
- Pi as standard; C or LC filter circuits on request.
- Standard Terrapin SCE2 panel cut-out size.
- High environmental sealing and waterproof to IP68.
- Rated to 2,000 mating cycles.

Amphenol Limited

Tracer - Rapid Prototyping

- Introducing Amphenol's newest innovation – TRACER Rapid Prototyping. Achieve any pinout you can imagine – without sacrificing performance or lead time.

Amphenol Aerospace

D38999 Filter Connector

· Versatility of standard connectors with EMI/EMP protection for sensitive circuits.
· Low-pass filter circuits including L, C, LC, Pi and T as well as more specific configurations.
· High power line filtering options.

Amphenol Limited

Iguana 38999

· Barrier sealed to IP68 when unmated.
· Jam-nut and Box Mount Receptacles.
· Fully intermateable with standard D38999.
· Low Profile.
· Moulded PCB stand-offs.
· Optional pre-tinned contacts.

Amphenol Limited

Enhanced sealing receptacles

· Initial performance close to hermetics - 1.10^{-6} cm3/s under 1 bar of differential pressure.
· Available on most ranges : TV, LJT, SC39, RNJ, 387TV...
· Designed for unpressurized area.
· Several materials et platings available, with RoHS & REACH compliant versions.

Amphenol Socapex

Pegasus

· Electroless Copper and Nickel plating: Enables EMI shielding from ambient noise transients.
· 1/4 turn bayonet style connection: Makes wire installation and maintenance easy and efficient.
· Interfacial and Triple-Barrier Seal: Enables environmental sealing (IP 67 rating).

Amphenol PCD

Nano-Pegasus

· ¼ Turn Cam Lock: Easy to use, blind mate with audible click and visual locking aids.
· Interfacial & Wire sealing: IP67 performance for use in human interface, wet and damp applications.
· Polyethermide Single Piece Housing: High temperature resistance, resistance to a large number of harsh fuels & chemicals, a long working life & high mating cycles.

Amphenol PCD

Push Pull Luminus - Chrome

NEW

· Small, lightweight, environmentally sealed, cost-effective, highly reliable and easy to use circular connectors. Bayonet and push-pull style connectors supporting signal level to medium power (23A) applications. These parts can fly- with Altitude Immersion testing to 75k feet. RoHS and REACH compliant.

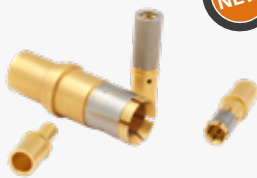**Amphenol PCD**

EN3155 QUALIFIED
NEW

Power Contacts

· Contacts size 8.
· Available for MIL-DTL-38999, EN3645, EN4165.
· Meet the highest standard in the market.
· Several termination available (crimp, PC Tail, Threaded for BUS-BAR).

Amphenol Socapex

NEW

Temper Grip Contacts

· Contacts size 0 to 8.
· Available for MIL-DTL-38999, EN3645, HV38999 and AS5015.
· Higher current capability than standard power contacts.
· The right solution to severe application (vibrations, temperature) featuring unique napkin ring design.
· Several termination available (crimp, Threaded for BUS-BAR).

Amphenol Socapex
Amphenol Aerospace

NEW

Coaxial Contacts

· Contacts Size 8.
· 50 Ohms impedance.
· DC – 6 GHz frequency range (please consult us).
· Crimp and PC tail available.

Amphenol Socapex

75 Ohms Coaxial Contacts

· Meet HD-SDI and 3G-SDI.
· Contact sizes 16, 12, 8 and 6.
· Available for MIL-DTL-38999, EN3645, EN4165 and ARINC600.
· Available in crimp and PC Tails versions.

Amphenol Socapex

75 Ohms HD Coaxial Contacts

· Meet Ultra-HD / 4K quality (12G-SDI).
· Contact size 8.
· Unique float mount technology to allow consistent microwave performance.
· Available for MIL-DTL-38999, EN3645, EN4165.
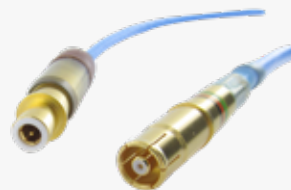· Available in crimp and PC tails versions.

Amphenol Socapex

NEW

HD-BNC / BNC Field 75 Ohms Adapters

· Meet ultra-HD/ 4K quality (12G-SDI).
· Contact size 8
· Available interface HD-BNC and BML.
· Requires modification of cavities Size 8 to accommodate keyed contacts.

Amphenol Socapex

Twinax Contacts

· Contact size 8.
· Designed for BUS1553 and ARINC429.
· Available for MIL-DTL-38999,EN3645, EN4165 and ARINC600.
· Qualified further EN3155-024 an-dEN3155-025; ABS1600, ABS1607.
· Available in crimp and PC Tails versions.
· Custom designs upon request.

Amphenol Socapex

EN3155 QUALIFIED

Quadrax Contacts

· Contact size 8.
· The right choice for ethernet Cat5e and AFDX application.
· Available for MIL-DTL-38999, EN3645, EN4165 and ARINC600.
· Available in crimp and PC Tails versions.
· Requires modification of cavities Size 8 to accommodate keyed contacts.

Amphenol Socapex
AMHS

Octomax 1G26 Contacts

· One Octomax 1G26 is equivalent to two quadrax.
· The right choice for ethernet Cat 5e and AFDX application.
· Fit in a standard size 8 quadrax cavity.
· Contact size 8.
· Available in crimp and PC Tails version.

Amphenol Socapex

NEW

RADSOCK

· RADSOK® technology is based upon a stamped and formed flat grid, uniquely twisted into a hyperbolic geometry to provide robust, high-density contact to the mating pin contact. Most pin and socket technologies rely upon spring (beam element) properties of the contact elements, which tend to weaken over time.

Amphenol Aerospace

Octonet Contacts

· Size 8 Octonet Contacts available for MIL-DTL-38999 Series III connectors. Each contact contains (8) strategically spaced inner contacts that form four 100 Ohm matched impedance differential pairs.
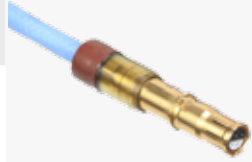
AMHS

FiberQuad Ruggedized Quadrax Contacts

· Amphenol provides a high performance ruggedized Quadrax contact, known as FiberQuad, that embeds a fiber optic transmitter or receiver within the contact itself, along with the support electronics to provide a plug-and-play solution to our customers.

AMHS

Split-Pair Quadrax Contacts

· Overall higher bandwidth than standard CAT5E quadrax - Supports up to 6.5 Gbps per pair. For CAT6A type cable. Enhanced crosstalk performance (compared to standard quadrax) due to compatibility with shielded twisted pair of cables. Can be used for a variety of high-speed applications beyond current star quadrax design.

AMHS

PhaseTrack® Low Smoke

· Low smoke, zero-halogen cable assemblies for confined spaces.
· Exceptional phase temperature performance while meeting HF through K band frequency requirements.
· Optimized option for minimum loss in Ku band.
· Proprietary TF4 ® dielectric.

Times Microwave Systems

LMR®-FR

· Non-halogen, low smoke, fire resistant cable.
· Flexible, low-loss, rugged coaxial cable.
· UL/NEC & CSA rated 'CMR' and 'FT4', meets FAA FAR25, and is MSHA-P for mining applications.

Times Microwave Systems

TCOM®-FR

· Versatile, low-loss coaxial cable.
· Flexible, rugged, and low PIM.
· Features a non-halogen fire resistant jacket, listed CMR/MPR (PCC-FT4).

Times Microwave Systems

SiO2

· Designed for harsh environmental conditions.
· Low-loss, high velocity cable.
· Can perform in temperature ranges up to 1000°C while maintaining excellent phase stability.

Times Microwave Systems

InstaBend® 047

· Flexible coaxial microwave assembly.
· Designed for tight interconnects.
· Cable can be bent very closely behind the connector.
· Maximum operating frequency of 50 GHz.

Times Microwave Systems

MilTech®

· Fully vapor sealed for system longevity.
· Ruggedized to withstand harsh environments.
· Qualified for use in both commercial and military applications.

Times Microwave Systems

Quick Disconnect Connectors

· Ideal for high power applications.
· Positive locking mechanism provides secure connection.
· Intermate-able with other interfaces without performance impact.

Times Microwave Systems

TFLEX®

· High performance, low loss microwave cable.
· Excellent Shielding Effectiveness.
· Stable loss, phase, and VSWR with flexing.
· Low Passive Intermodulation (PIM).

Times Microwave Systems

MaxGain®

· High performance, ultra-low-loss microwave coaxial cable.
· Unique spiral outer conductor.
· Lightweight.
· Stable Insertion loss, phase, and VSWR with flexing.
· Superior shielding effectiveness (>90 dB).

Times Microwave Systems

CapLock & PlugLock

NEW

· CapLock is a locking ring that allows a Cap to lock onto a receptacle to secure the port access. Once locked around the cap, Caplock turns freely around the cap and prevents fingers from unlocking it.
· PlugLock is a locking ring that allows a plug to lock onto a receptacle to secure the plug to receptacle connection. Once locked around the plug coupling nut, Pluglock turns freely around it and prevent the fingers from unlocking it.

Amphenol Socapex

Standard caps

· Compatible with plugs, jam nut and square flange receptacles.
· IP68 (permanent sealing).
· Protection again dust, water and moisture EMI function.
· Nylon cord, stainless steel rope or metallic chain.

Amphenol Socapex

Metallic Self-Closing Caps

· All receptacles.
· IP67 (1m, 30 min sealing).
· Protection against water spray and dust.
· Fast-self closing function.
· Materials: aluminum, stainless steel, bronze.

Amphenol Socapex

Rubber Caps

· Comptatible with line, jam nut and square flange receptacles.
· IP67 (1m 30 min sealing).
· Protection against dust and water.
· Silicone 200°C.
· Nylon cord.

Amphenol Socapex

CC5516 Light cable clamps

· Lightweight composite Clamps, derived from metallic clamps.
· Designed to keep the cable harnesses or hydraulic pipes securely maintained on a structure.
· Up to 65% lighter than metallic clamps.
· PEEK Polymer offering high temperature range up to 225°C
· 10 sizes available.

Amphenol AirLB France

CC1339 Light cable clamps

· Provide routing, support and fixing for cable harnesses of various diameters.
· Derived from legacy ABS1339 standard clamps, they offer up to 18% more weight saving.
· High Grade Material.
· Impressive weight saving vs. Metal clamps.
· 8 sizes available.

Amphenol AirLB France

Modular brackets

NEW

· Suited for cable fixing on structure.
· Modular design.
· Adjustable design to cope with cable orientation (45° / 90° / 135° and 180°).
· Lightweight composite.
· Wide range of sizes and standoff versions.

Amphenol AirLB France

Backshells

· Rectangular backshells for all connector series.

AmphenolCanada

Conductive gaskets

. Electrically conductive gaskets according to VG96940-6.
. Temperature range: -55°C to 160°C
. Frequency range: 15 kHz to 4 GHz
. Shielding properties at ≥ 70 dB

Amphenol Air LB GmbH

Protective caps

· Protective caps are developed for environmental, protection needs of Circular connectors in Threaded & Bayonet versions. These are designed to meet the requirements of military standards.

Amphenol India

Backshells

· Amphenol India produces wide range of backshells enviromental , Non enviromental, strain relief , EMI as per the application requirments. Backshells available with type of cable entry such as straight , 45 Deg, 90 Degree & also avaialble with veriety of materail options like Aluminum, SS, Composite , Bronze.

**Amphenol India
Amphenol Socapex
Amphenol Limited**

Slip rings & Rotary joints

NEW

· Rugged & concealed wiring unit.
· Lesser Moving parts hence longer product life.
· Low to Zero maintenance.
· Light weight product.
· 100% compliance to AS9100 production process.
· Inhouse test facility for Electrical, RF. FO & Enviromental.
· Hybrid solutions for all combinations.

Amphenol India

Rapid Part Development

NEW

· Rapid Design & Deployment: Leverage cutting-edge product development technology to design and deploy production-ready parts with remarkable speed
Cost-Effective Development: Accelerate part development while significantly reducing costs, delivering production-ready parts within a mere 4-6 weeks upon design freeze in a variety of materials.
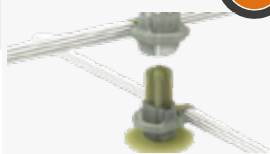
Amphenol PCD

Lightening Hole Bushings

· Snap-In design makes it quick and easy to install, no tools are required.
· No glue or other hard-ware is necessary, reduces FOD.
· Made of lightweight material.
· Smooth edges reduces wire chaffing Offered in two different designs: one piece or two pieces.

Amphenol PCD

Snap 'N Post

NEW

· 1-for-1 replacement for standard ring posts.
· Posts are pre-installed to the structure, adapter heads pre-installed on wire harnesses.
· Reduces installation time from ~30+ sec to less than 5sec compared to standard ring posts.
· Two post heights, 0.83″ – 1.58″, provides more flexibility in wire management.

Amphenol PCD

P Clamp

· PEEK plastic makes parts non-corrosive and non-conductive.
· Overmolded silicone secures wires in place and helps protect from chafing.
· High temp rating of 350°F with excursion of up to 500°F.

Amphenol PCD

75P Clamp

NEW

· Open and close locking feature increases ease of installation.
· Easily recognizable size labels makes inspection easy.
· Fuel and high temperature resistant rubbers available.
· Dedicated to pressurized and unpressurized areas.

Amphenol PCD

86P Clamp

· Pre-Mount capability improves installation time.
· Easily recognizable size labels makes inspection easy.
· High temp rating of 350°F with excursion of up to 500°F.
· Dedicated to pressurized and unpressurized areas.
· Multiple sizes available ranging from cable bundle DIA 0.125″ – 1.625″.
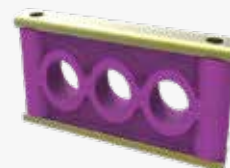
Amphenol PCD

81X Clamp

NEW

· Pre-mountable for faster installation times.
· Non-conductive and non-corrosive grommets and clamps provide security against potential arcing.
· Lightweight nylon or ultem quick latching clamps for easy wire harness routing.

Amphenol PCD

Fairlead Blocks

· Multiple high performance materials available, EPR, Nitrile, Fluorosilicone, all designed for different applications.
· Cored out design reduces weight by up to 20%.
· Customization available for unique tube/wire routing (different DIA, space between tubes/wires, height clearance.

Amphenol PCD

EN4165 / SIM Metallic connectors (2&4 modules)

· Space efficient & modular design.
· SIM modules in overmold Technology : second to none dielectric and sealing performances.
· Versatility of mixing & matching RF (Quadrax, Triax, Twinax and Coax), Fiber Optics, Signal & Power.
· Available in standard Mono, 2 & 4 bay, or custom configurations.

Amphenol AirLB France

EN4165 / SIM Composite connectors (2&4 modules)

· Space efficient & modular design.
· SIM modules in overmold Technology : second to none dielectric and sealing performances.
· Versatility of mixing & matching RF (Quadrax, Triax, Twinax and Coax), Fiber Optics, Signal & Power.
· Available in standard Mono, 2 & 4 bay, or custom configurations.

Amphenol AirLB France

EN4165 / SIM Monomodule connectors Metallic Version

· Derived from ARINC 809 and EN4165 Monomodule connectors.
· Robust, push-pull metallic connectors.
· More than 20 different inserts to choose including power, signal, optical or RJ45 versions.
· SIM modules in overmold Technology offering perfect sealing.

Amphenol AirLB France

SIM custom plates / Structure connectorization

· Derived from ARINC 809 and EN4165 Monomodule connectors.
· Robust, push-pull metallic connectors.
· More than 20 different inserts to choose including power, signal, optical or RJ45 versions.
· SIM modules in overmold Technology offering perfect sealing.

Amphenol AirLB France

EN4165 / SIM connectors Marine Bronze version

· Space efficient & modular design.
· SIM modules in overmold Technology : second to none dielectric and sealing performances.
· Versatility of mixing & matching RF (Quadrax, Triax, Twinax and Coax), Fiber Optics, Signal & Power.
· EN4165 specification is comparable to U.S. MIL-STD-810 in performance.

Amphenol AirLB France

1900SIM connectors

· Space efficient & modular design.
· SIM modules in overmold Technology : second to none dielectric and sealing performances.
· Versatility of mixing & matching RF (Quadrax, Triax, Twinax and Coax), Fiber Optics, Signal & Power.
· EN4165 specification is comparable to U.S. MIL-STD-810 in performance.

Amphenol AirLB France

SIM Quick release plates

· More than 20 different inserts to choose including electrical (power, signal), optical, RF, RJ45 versions.
· Electrical versions available for both crimp and PCB contacts.
· SIM modules in overmold Technology : second to none dielectric and sealing performances.

Amphenol AirLB France

NEW

EN4165 / SIM modules range, including new SIM#4 / SIM30#22 / SIM42#26

· More than 20 different inserts to choose including electrical (power, signal), optical, RF, RJ45 versions.
· Electrical versions available for both crimp and PCB contacts.
· SIM modules in overmold Technology : second to none dielectric and sealing performances.

Amphenol AirLB France

NEW

SIM 3023 modules Reversed gender

· Modules to be used with the whole range of EN4165 / SIM connectors.
· High contact density: 30 contacts size 23.
· Reversed gender (male module fitted with socket contacts, female module fitted with pin contacts) offering a high contact robustness.

Amphenol AirLB France

EN4165 / SIM RJ45-Cat6a modules

· Available in category 3 (10 Mbit/s) and 6a (1 Gbit/s) versions.
· For EN4165 / SIM connectors.
· Versions cable-to-cable and cable-to-PCB.
· Rear backshell for perfect sealing.

Amphenol AirLB France

NEW

SIM Shunt modules

· SIM modules for grounding purpose, many layouts available.
· Modules to be used with the whole range of EN4165 / SIM connectors.
· SIM modules in overmold Technology : second to none dielectric and sealing performances.

Amphenol AirLB France

1750 series Distribution modules

· Modules are fitted with male crimp contacts.
· Derived from EN3708 and NSA937901 standards.
· Compact design & Overmold Technology offering excellent sealing performances.
· Suited to save cable linear meters, then cost and weight.

Amphenol AirLB France

1765 Double sized Distribution modules

NEW

· Derived from 1750 series.
· Components carrier modules that can be fitted with large components compared to standard 1765 modules (diodes, resistors, fuses, etc.).
· To be used in a cable harness to easily insert a large component.
· Sealing (IP66 / IP68 and IP69K).
· Space and weight saving.

Amphenol AirLB France

1119 splices

· Available in 1 to 4 contacts versions & component carrier versions.
· Fully sealed, compact, thin and easy to use.
· Perfectly suited in a cable harness, to easily insert a component and change a signal, or simply to repair a damaged wire.

Amphenol AirLB France

3240 / 3242 series Monoblock assemblies

· For power distribution purposes.
· For copper or aluminum cable connections.
· Available with individual or shunted terminals, from 1 to 12 terminals, in different diameters.
· PEEK Polymer offering high temperature range.

Amphenol AirLB France

ASR connectors

· Snap in locking system.
· Lightweight composite.
· Shielding (Bright Nickel).
· Sealing.
· D-shape polarization and 3 keying positions.
· Available for cable-to-cable or cable-to-PCB applications.
· Standard crimp contacts (size 22 / 20).

Amphenol AirLB France

Relay sockets

· Adaptation device between a Relay and a Cable harness.
· Lightweight composite & Compact design.
· For 8, 14 or 16 cts size 20 / 16 (crimp contacts).
· Contacts as per NFC 93422 model HE310A contacts & Contacts as per ASNE standard.

Amphenol AirLB France

HPAC connectors Size 0 and size 4 versions

NEW

· Innovative and easy-to-use locking system offering a perfect connection security.
· 2 mixed arrangements available:
- 4 Power (#4) + 6 Interlock (#22)
- 3 Power (#0) + 4 Interlock (#22)
· Quick connect, no tools needed (lever).
· Secured connection thanks to the CPA (Connector Position Assurance).

Amphenol AirLB France

SMART HPAC connectors

NEW

· Power connector incorporating active electronics that enables real-time analysis, according to user-defined configurations, of data from sensors (temperature and current) integrated into the connector.

Amphenol AirLB France

MT Ferrule optical connectors

NEW

· MT Ferrule Optical Connector.
· Stainless steel connector fitted with MT ferrule.
· Space saving: compact design.
· Weight saving on harnesses: no metallic braid needed.
· Ruggedized.
· Versatile: 24 or 48 FO channels.
· No adverse effect of EMI.

Amphenol AirLB France

D83 Series Compact d-sub

· Compact d-sub variant with size 23 contacts for compact +combination arrangements.

Amphenol Canada

308 Series

· Low-pass filter d-sub format with patented stress-isolated solderless design.

Amphenol Canada

M13 Series

· Low-pass filter micro-D format.

Amphenol Canada

MMA Series

· Blind-Mate Low Mating Force Modular Connector (based on ARINC 600 standard).

Amphenol Canada

R39 Series

· Rectangular Standard 38999 AS39029 contacts - Blind-mate +rugged +high power.

Amphenol Canada

ARINC 600

· Avionics standard blind-mate with low insertion force contacts +field replaceable inserts.

Amphenol Canada

R398 Series

NEW

· Compact and rugged scoop-proof version of R39 Series.

Amphenol Canada

R64F Series

· Filtered and High Speed Rectangular Audio Docking Connector.

Amphenol Canada

Nano-D Series

NEW

· Nano-D standard and custom products - meets MIL-DTL-32139 requirements.

Amphenol Canada

Latching Micro-D

NEW

· Micro-D format with latch release mechanism.

Amphenol Canada

SMC Series

NEW

· Stackable Modular Connector.

Amphenol Canada

LRM

· LRM surface mount connectors meet the high density needs of today's integrated electronic modules. The flexibility in design allows Amphenol to meet and exceed the wide variety of user requirements. With multiple different contacts being used in the connectors, mainly digital (brush), there are thousands of combinations of inserts that are possible.

Amphenol Aerospace

Ruggedized VME64x

· Amphenol's Ruggedized VME64x rectangular connectors were developed with the military's need for rugged connector solutions and the trend toward utilizing COTS (Commercial Off the Shelf) boards, backplanes or chassis.

Amphenol Aerospace

Mach D

· High-Performance D-Sub Connectors for Use in Harsh Environments
Precision machined shell provides EMI shielding protection
Grounding strip provides excellent electromagnetic compatibility (EMC)

Amphenol Positronic

Backshell

· Available in shell sizes 1 through 6.
· Banded elliptical entry, slotted, knurled.
· Top and side entry.
· Standard and low profile.
· Jackscrews or quick disconnect locking system.
· Spacious interior.
· Re-openable, two-piece construction.

Amphenol Positronic

MIL-DTL-24308 D Sub subminiature connectors

· D-sub-Connectors are rack & panel type with polarized shell with machined pin & socket contacts which provide high reliability for the connector. These connectors are widely used in variety of application due to its versatile design where weight & dimensions, space are constraint factor.

Amphenol India

NanoDMT®

NEW

· Miniature "D-Sub" form factor for Single MT ferrule.
· Supports up to 64 fibers, SMF,MMF, APC, UPC and Expanded Beam.
· Utilizes industry standard MT hardware. No proprietary mounting kits.
· Three Tier Mating. Sub-alignments pins and insert-to-insert bottoming for superior repeatability and stability.

Amphenol Fiber Systems International

Velok

NEW

· Push/Pull Mating: Push-Mate and quick release reduce assembler fatigue.
· Scoop-Proof: Prevents contacts from being bent or electrically shorted during mating.
· Compact Rectangular Form Factor: Ideal where space is limited Positive Lock Indicator: Easy for assembler to see connector is fully mated.

Amphenol PCD

Gladiator

NEW

· Magnetic mating orients and aligns connectors for fast, no-look mating. Factory adjustable engage/disengage forces to meet customer specific requirements.
· Spring pins (spring probes) maintain contact through shock and vibration. Fluorosilicone gasket interfacial seal
· that seals individual contacts and the plug to receptacle.

Amphenol PCD

Solaris

NEW

· Low profile rectangular form factor: Less than 0.5" tall. Fits into seat arms, backs, tray tables and compartments, as well as lower profile ceiling and side panels.
· Slide Latch: Easy-to-use, FOD free, tool-less mating.
· Integrated Tie Wrap hole: Zero footprint tie down to pipes, bundles and bulkheads.

Amphenol PCD

Relay Sockets

· Qualified to MIL-PRF-12883 specifications.
· Amp range between 2 and 25.
· Ultrasonically bonded interfaces between the dielectric components, eliminating air paths and providing protection against moisture and degradation.

Amphenol PCD

Junction Modules

· Perform to M81714 electrical and mechanical standards.
· Utilize M39029 pin or socket contacts.
· Accommodate 12-26AWG wires.
· Mounting rails and customization options available.

Amphenol PCD

PRC

NEW

· Interface with PRC 117 and 152 radios.
· Harsh Environments.
· Rugged and watertight.

Amphenol PCD

Micro HDAS

 NEW

· Miniature board-to-board &
board-to-cable connector.
· 1.27mm pitch : space & weight
saving for severe environments.
· 29 sizes from 4 to 60 contacts.
· Ethernet & USB compatible.
· Meets MIL-DTL-55302 and MIL-
DTL-83513 requirements.

Amphenol Socapex

HDAS

· High performance board-to-board
and board-to-cable connector.
· 1,905 mm pitch.
· 12 sizes from 11 to 253 contacts.
· Hybrid version for power and
high-speed applications.
· Ethernet & USB compatible.
· Meets MIL-DTL-55302 require-
ments.

Amphenol Socapex

SMASH

· High density modular connector
for the most requiring applications.
· Aluminium shell for electrical
enhancements.
· 7 sizes from 132 to 450 contacts.
· Meets MIL-DTL-55302
requirements.

Amphenol Socapex
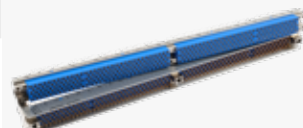
SIAL

· Robust technology designed for
severe environments.
· Exceed MIL-DTL-55302
requirements.
· Modular connector mixing signal
and coax contacts.
· Contact technology allowing
lateral displacement +- 0.25 mm.
· 13 sizes from 18 to 392 contacts.

Amphenol Socapex

HDAS Hybrid

NEW

· High performance & competitive
board-to-board connector.
· Mix signal, power & coax.
· Power contacts up to 20 Amps.
· Coax contacts 50 ohms.

Amphenol Socapex

HDB³ - HSB³

· Brush contact technology.
· High density contact pattern.
· Less board space.
· Shorter mated height.
· Low cost.
· High speed version (HSB3).

**Amphenol Socapex
Amphenol Aerospace**

R-VPX

· VITA 46 qualified.
· Up to 32 Gb/s performance.
· Qualified to VITA 46 for Open VPX
applications.
· Fully intermountable &
intermateable to existing VITA 46
connectors.
· Can be combined with high power
modules, RF modules and optical
modules.

**Amphenol Socapex
Amphenol Aerospace**
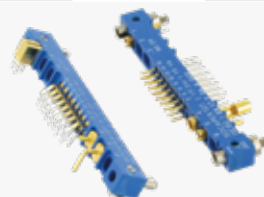
127/HE801-HE804-HE807

· Wide range of fittings, guiding and
contact terminations.
· Low-profile.
· Cost competitive.
· Reliable technology.
· Board-to-board, board to cable or
cable to cable versions.
· Mix signal, power & coax.

Amphenol Socapex

SIHD

· Robust technology designed for
severe environments.
· Monolithic connector for use with
thermal clamps.
· Contact technology allowing
lateral displacement +- 0.25 mm.
· Repairable contacts for easy
maintenance.
· 7 sizes from 102 to 390 contacts.

Amphenol Socapex

SIM OPLF modules
for PCB mounting

NEW

· Low profile alternative to
standard SIM modules fitted with
angled PCB contacts.
· Contact strips are encapsulated
in overmolded LCP composite
shell and assembled in an EN4165
shaped module.
· Modular, for easier maintenance.
· Perfectly suited for automatic
assembly.

Amphenol AirLB France

Press Fit 22/23F OPLF SIM
modules

NEW

· Overmolded Plated Lead Frame
(OPLF) technology.
· Press Fit contacts: quick mount
on PCB.
· Alternative to modules fitted with
machined angled PCB contacts.
· Suited for automatic assembly
on PCB.

Amphenol AirLB France

R38 Series / R39M
Micro Series

· Hybrid high speed d-sub/micro-D
+RF contacts.

Amphenol Canada

3 PCB Connectors

Micro-C
NEW

· Micro-D solderless "compression termination" high-speed +space - meets MIL-DTL-83513 requirements.

Amphenol Canada

MicroPlus
NEW

· Alternate solderless compact micro "compression termination" for high-speed +space.

Amphenol Canada

Stingray PCB
NEW

· Magnetic mating mechanism.
· Non-keyed rotatable 'blind mating'.
· PCB Mount.
· Wipe clean interface featuring sprung-loaded pogo contacts.
· 10,000+ mating cycles.
· Compatible with Power, USB 2.0 and Audio signal requirements.
· IP68 sealed (mated and unmated) DWV 200VDC.

Amphenol Limited

Terrapin - Micro SD Card Reader

· Industry standard Micro-SD compatible.
· Latched cap for dust and EMI protection.
· IP68 environmental seal.
· Ideal for ruggedisation of devices that utilise Micro-SD memory cards.
· Available in lightweight Aluminium with Black Zinc Nickel or robust Brass with Black Silver finishes.

Amphenol Limited

Scorpion

· Modular tool design allows for practically limitless customer-defined contact arrangements.
· Molding process yields a one-piece insulator.
· The connector width is variable up to 101.00 mm.
· High conductivity contacts available to maximize current density.
· For high voltage requirements, increase creepage and clearance distances with spacer modules.

Amphenol Positronic

Viper

· The SCFF (Small Cubic Form Factor) is a ruggedized 1-channel duplex multi-mode optical transceiver operating at 850nm wavelength. It utilizes a 12-pin electrical interface in SMT (Surface Mount Technology) configuration, conforming to SFF-8431 specification for high-speed interfaces.
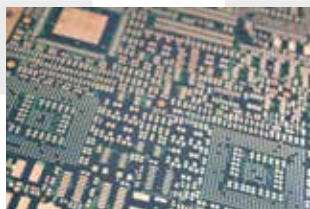
AMHS

SP Max

· Liquid crystal polymer (LCP) insulators ensure proper operation from -55°C to 175°C.
· Rated up to 35A per contact at 30oC temperature rise.
· Integral blind mating allows for up to 2mm of offset.
· Machined contacts in crimp, solder, or press-fit termination options.
· Slim metal housing allows for heat dissipation and shielding.
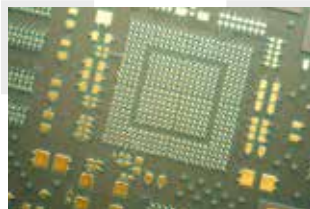
Amphenol Positronic

Complex Multilayer

· Multilayer up to 40+ layers.
· Wide range of laminate options, including high reliability / temperature, low loss and lead-free laminates.
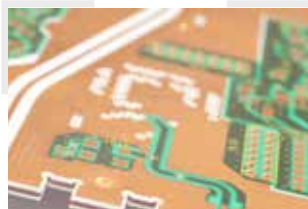· Mixed dielectric (hybrid) constructions.

Amphenol Invotec

HDI

· Allow increased routing on multiple layers.
· Provide routing solutions for next generation application 1mm down to .25 mm Ball Grid Array's (BGA's).
· Provide a planar surface for BGA's eliminating potential solder voiding.

Amphenol Invotec

RF / High Speed

· Highspeed Materials.
· Isola I-Tera MT40, Tachyon 100G, Astra MT77.
· Panasonic Megtron 6 & 7.
· Rogers 4000 series – Usually mixed with other materials.
· HDI Laser drilling – small sub 150 micron holes (6mil).
· Mechanical Back Drilling of Vias.

Amphenol Invotec

Thermal / Power Management

· Heavy Copper 70 – 210um (2oz-6oz) multilayers.
· Aluminium & Copper Heatsinks – Bonded externally to the PCB.
· Copper or Copper Invar Copper Cores.
· Copper Coins – Local pieces of Copper inserted into the PCB structure.

Amphenol Invotec

Flex

· Flexible circuits allow the board to conform to a desired shape (flex) during its application.
· Flexible circuits (single or double sided) allow freedom of 3D packaging; significant weight and footprint reduction.
· These types of circuits are very cost effective in replacing low-high volume simple wire harnesses.

Amphenol Invotec

Rigid Flex

· By incorporating PCB and Flex into one design there are less points of failure as well as creating a smaller interconnect area.
· Overall assembly effort is lowered, as is test complexity; both of which drive down cost.
· More effective and convenient servicing over the course of the product lifecycle.

Amphenol Invotec

MPO MTP Field

NEW

· Transforms a standard MPO/MTP patchcard into a rugged connector, no tool needed.
· Sealed against fluids and dust (IP68).
· Shock, vibration proof.
· Number of Channels x12.
· Typical Insertion Loss: 0,5dB in MM and SM.
· Durability 500 mating/unmating cycles (changes for<0,2 dB).

Amphenol Socapex

CTOS / CTOL

· Singlemode & multimode, hermaphroditic fiber optic connector.
· Protection windows for contactless connection.
· Large expanded beam, up to 8 channels.
· Design for gloved handling and blind mating in difficult conditions.
· NATO/STANAG4290.

Amphenol Socapex

PROMI

· In Line Miniature Optical Adaptor.
· Easy installation & maintenance.
· Can be used on patchords already in place.

Amphenol Socapex

LuxBeam™ size 16

· Expanded beam: Sx140.
· Easy-to-clean single expanded beam termini.
· Can be used with multisources connectors (38999, EN4165, EN3645).
· Hybrid solutions possible (mix with electrical contact).
· Reduced sensibility to dust, reduced maintenance, higher reliability.
· Size 12 and 16 (EN4869).

Amphenol Socapex

LC Field

· Sealed against fluids and dust (IP68).
· Shock, vibration proof.
· Number of Channels: 2
· Typical Insertion Loss: 0,5dB in MM and SM.
· Durability 500 mating/unmating cycles (changes for<0,2 dB).

Amphenol Socapex

MIL-PRF-83526 TacBeam

· Supports both multimode and single mode fiber.
· Expanded beam technology is less susceptible to dust and debris.
· Monolithic insert design facilitates cleaning.
· Hermaphroditic design enables daisy-chaining of cable assemblies to support varying distances.

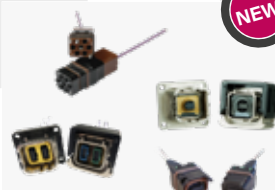**Amphenol Socapex**
Amphenol Fiber Systems International

TVOP

· Butt joint technology.
· Fiber optic connector design with 38999 Series III shell Optimised insert for butt joint termini dia. 2.5mm.
· Design fo Multimode and Single-mode PC or APC version for high return loss.
· Up to 8 channels.

Amphenol Socapex

SIM Optical modules (SIMTac03 / SIMTac08 / Elio / Luxcis / MPO)

NEW

· Wide range of optical modules (for EN4531-101 contacts, Arinc 801 contacts...).
· Wide range of MT ferrule based optical modules (MPO, SIMTAC08 & SIMTAC03 connectors...).
· For EN4165 connectors.

Amphenol AirLB France

MMA Series with MT

NEW

· Blind-Mate Low Mating Force Modular Connector (based on ARINC 600 standard).

Amphenol Canada

HDM

· Small and lightweight.
· Coupling ring measures less than 22mm.
· Low loss ceramic PC technology.
· Variety of materials and plating options.
· Connector and monobloc environmentally sealed.
· Fully hermaphroditic wipe clean bayonet mating mechanism.

Amphenol Limited

MFM

· Operating temperatures: -65°C to +150°C.
· Manufactured with a corrosion-resistant Arcap shell, PC Zirconia Ceramic ferrule and Zirconia, Ceramic alignment sleeve.
· Offers silicone 'O' ring environmental sealing.
· Features an anti-vibration coupling mechanism.

Amphenol Limited

CF38999 Multi-Channel Fiber Optic Connector

· Meets or exceeds MIL-DTL 38999 Series III Requirements. EMI shielding solid to metal coupling, grounding fingers, electroless nickel plating, and thicker wall sections provide superior EMI shielding capability of 65dB min. at 10 GHz. Termini protection recessed pins in this 100% scoop-proof connector minimize potential termini dammage.

AMHS

MT38999 Multi-Channel Connectors with MT Ferrules

· Amphenol offers a multi-channel circular connector with high density MT fiber optics. This connector uses MT ferrules.

AMHS

TV SIM + FO Modules

NEW

TV SIM Series
· Circular connector based on 38999 series III with modular contact options according to EN4165
· Standard housing size 17.
· Modular design with molded SIM inserts (EN4165 / VG96513)
· Metal & composite housing available.
· Crimp contacts (AWG23 to AWG8) up to 80A, PCB contacts and fiber optic cables available.

Amphenol Air LB GmbH

THDM®

· MIL-PRF-M28876 form factor.
· Compatible with USN proposed M85045/33,34,35 &36 high density cable.
· 4 Shells: 1,2,4, and 8 MT ferrules for up to 192 fiber channels.
· Highest Density – Largest Ferrule Count.
· Ratcheting coupling nut for high vibration environments.
· IP 68 sealing.

Amphenol Fiber Systems International

ACE-L

· Positive lock for ultra high vibration environments.
· IP 68 Sealing.
· Angle Polish Capable for Sensing applications.
· Small Form Factor.
· Wide Operating Temp range.

Amphenol Fiber Systems International

TFOCA-II®

· Most widely used HEFO connector.
· Easy to field terminate - Rugged Construction.
· Hermaphroditic coupling.
· 1-12 channels.
· Aluminum, SS, or Marine Bronze options.

Amphenol Fiber Systems International

M29505/4 &/5 Termini

· Qualified to MIL-STD-29504/04 & /05 Rev. D.
· Precision fiber optic ceramic ferrules.
· Accurate ferrule/split sleeve alignment system.
· Only qualified Single Mode Supplier.
· Low Insertion Loss.

Amphenol Fiber Systems International

NGCON

· Manufactured in accordance to MIL-PRF-64266
· Precision alignment and components provide excellent optical performances.
· Supports APC termini for RF-over-fiber and other applications requiring low back reflection.
· Removable ASR facilitates termini cleaning and maintenance.
· O-ring seals on each termini. No rear grommet. Cable independent.

Amphenol Fiber Systems International

Optical Molded Cables

NEW

· Custom 2D and 3D routings.
· Allows for very compact fiber routing.
· Resistant to a variety of fluids.
· Temp range -55 to +95C.
· Ideal for dense EO application where liquid cooling is essential.

Amphenol Fiber Systems International

Optical Flex Circuits

NEW

· Flame resistant substrate.
· Multimode, single mode and hybrid constructions.
· Temp range -55 to +95C.
· Diverse substrate size, shape and packaging.
· Available in virtually any routing scheme.
· Compatible with multi-channel and discrete fiber terminations.

Amphenol Fiber Systems International

MIL-PRF-M28876

· Designed and manufactured IAW MIL-C-28876, Rev F.
· Military approved (QPL) 3 shells, COTS on Size 11.
· 2, 4, 6, 8, 18 and 31 channel sizes HBA, CAD plated aluminum, Nickel, or stainless steel (303 or 316L) Sn-Zin in Q4.
· Multimode and single mode.

Amphenol Fiber Systems International

ST® Connectors and ST® Adapters

· QPL certification.
· Stainless steel construction – No Plating to flake off.
· Multimode and single mode operation.
· Isolated cable strain relief boot.
· Thermoplastic strain relief and dust cover.

Amphenol Fiber Systems International

ARINC801

· Qualified to the ARINC 801.3 Specification.
▪ Precision alignment and components provide excellent optical performances.
▪ Supports APC termini for RF-over-fiber and other applications requiring low back reflection.
▪ Supports standard suite of 38999 backshells and accessories.

Amphenol Fiber Systems International
AMHS
Amphenol SOCAPEX

M801
- Qualified to the ARINC 801.3 Specification.
- Precision Zirconia ferrule.
- Genderless design. Supports MMF,SMF and UPC and APC polish.
- All stainless steel body material. No concerns with plating flaking.
- Metal crimp band.

Amphenol Fiber Systems International

ARES Tactical Reels
- Qualified to CECOM Specification.
- Lightweight Composite design.
- 300,500,750,1000 and 3000m sizes available.
- Integral connector and maintenance kits storage.
- Accessory stand and transit case available.

Amphenol Fiber Systems International

TACBeam® Media Convertor
- 10/100/1000 Base-T, IEEE 802.3 Compliant Ethernet Media Convertor.
- TACBeam® (MIL-DIL-83526) Compatible Optical Interface.
- 1 RU rack mountable.
- POE and External power options.
- Multiple harsh environment electrical Interface options.

Amphenol Fiber Systems International

TFOCA-II® Media Convertor
- 10/100/1000 Base-T, IEEE 802.3 Compliant Ethernet Media Convertor.
- TFOCA-II® Compatible Optical Interface.
- 1 RU rack mountable.
- POE and External power options.
- Multiple harsh environment electrical Interface options.

Amphenol Fiber Systems International

NanoDMT®
NEW
- Miniature "D-Sub" form factor for Single MT ferrule.
- Supports up to 64 fibers, SMF,MMF, APC, UPC and Expanded Beam.
- Utilizes industry standard MT hardware. No proprietary mounting kits.
- Three Tier Mating. Sub-alignments pins and insert-to-insert bottoming for superior repeatability and stability.

Amphenol Fiber Systems International

Custom Cable Assemblies
NEW
- MIL-STD-790 Facility.
- Assembly Facilities in USA, Estonia and Mexico.
- High Volume.
- Complex Assemblies.
- 100% inspection for Geometry, Cleanliness, IL and RL measurements.

Amphenol Fiber Systems International

R-Series V - Detached Electronics

· Space-saving installation : the detached sensor electronics allow space-saving installation.
· Protection of the sensor electronics : the separation of the robust sensor rod from the complex electronics provides the best protection against process influences.

Temposonics

R-Series V FLEX

· Straight and curved line : the flexible measuring rod enables position measurement on straight and also curved line.
· Compact for transport and storage : the rod can be coiled up for the transport.
· This saves costs and space.

Temposonics

MH-Series Compact

· The Temposonics® MH-Series is specifically designed for direct stroke measurement in cylinders in mobile hydraulic applications. The sensors can be fully sealed and embedded in the cylinders, providing excellent protection against the environment and EMI, ensuring a long operating life.

Temposonics

MH-Series Redundant

· Temposonics has developed the MH-Series redundant position sensor to maximize safety and availability of mobile machines. This sensor has two discrete sensing elements, electronic boards and output connections.

Temposonics

Ethernet Media Converters

Ethernet Media Converters with Expanded beam
· Ethernet Media converters with Expanded beam connectors.
· CTOS STANAG 4290 or Tacbeam M83526.
· RJFTV or MIL-DTL-38999 connectors.
· 1x1 or 2x2 gigabit ports.
· Supports PoE (PD or PSE).

Amphenol Socapex

Ethernet Media Converters with butt joint
· Ethernet Media converters with butt joint connectors.
· TVOP, MIL-DTL-38999 connectors.
· RJFTV or MIL-DTL-38999 connectors.
· 1x1 or 2x2 gigabit ports.
· Supports PoE (PD or PSE).

Amphenol Socapex

Media Converters
· Amphenol Military High Speed offers a wide range of media converters that feature integrated connectors for converting, adjusting, concentrating, or rerouting anything a customer needs. Many use a common D38999 Series III interface.

AMHS

Dual Channel 100G Ethernet Copper to Fiber Converter
· This Amphenol converter will transform your high-speed needs to a new level. We have taken two existing high-speed technologies and combined them into a media converter. Now you can transfer high speed data seamlessly from copper to fiber and from fiber to copper.

AMHS

Ethernet Switchs

SWaP
Size Weight and Power

Miniature Military Ethernet switch (RES-SCE-AC-8US)
· Unmanaged miniature portable Ethernet switch.
· 8 fast ports.
· MIL-STD-461E, EMI.
· MIL-STD-810F/GM, Environment.
· 5 VDC (USB) powered.
· Optimized for Size Weight and Power (SWaP).
· Weights only 140 grams!

Amphenol Socapex

Managed Rugged Ethernet switch (RES-SCE-8EMG)
· Rugged Ethernet switches with top-of-the-art performance.
· Managed Layer 2/3 models.
· 8 gigabit ports.
· MIL-STD-461F (EMI).
· MIL-STD-1275D/E (power).
· MIL-STD-810F/G/GM (Environment).
· RTCA/DO-160F (Environment).
· Weights only 390 grams!

Amphenol Socapex

Unmanaged Rugged Ethernet switch (RESMLAC-8US-CAPS)
· Unmanaged Rugged Ethernet switches.
· 8 100Mbps ports.
· MIL-STD-461F, MIL-STD-1275B, MIL-STD-810F.
· STANAG 4370 vibrations.
· STANAG 2895 altitude & temperature.

Amphenol Socapex

Managed Rugged Ethernet switch (RJSMLAC-8EMG-CAPS)
· Managed Rugged Ethernet switches.
· 8 gigabit ports.
· MIL-STD-461E/F, MIL-STD-1275B, MIL-STD-810F.
· MIL-S-901D Lightweight shocks.
· MIL-STD-167-1A Shipboard vibrations.

Amphenol Socapex

Managed Rugged Ethernet switch (RESMLAC-8MG-CAPS-F35)
· Managed Rugged Ethernet switches.
· 8 gigabit ports.
· All LAN ports shared within 1 single F35 connector.
· MIL-STD-461E/F, MIL-STD-1275B, MIL-STD-810F.
· MIL-DTL-38999 connectors.

Amphenol Socapex

Managed PoE Ethernet switch (RESMLAC-8MG-CAPS-POE)
· Managed Rugged Ethernet switches.
· IEEE 802.3 af/at/bt – PoE+ & 4PPoE.
· 8 gigabit ports with up to 60W per port.
· Total power budget of 330W.
· MIL-STD-461E/F, MIL-STD-1275B, MIL-STD-810F.

Amphenol Socapex

Managed Rugged Ethernet switch (RESMLAC-28MG)
· Managed Rugged Ethernet switches.
· 24 gigabit ports.
· Option: 4 Fiber Optic 10G ports.
· MIL-STD-461F, MIL-STD-1275B, MIL-STD-810F.
· MIL-STD-167-1A Shipboard vibrations.
· LAN Terrapin connectors.

Amphenol Socapex

Unmanaged Rugged Ethernet switch (RJSML-8UG1)
· Unmanaged Rugged Ethernet switches.
· 8 gigabit ports.
· Compliant to industrial EMI standards.
· Designed to meet MIL-STD-810.
· Option for power filtering per MIL-STD-704.
· RJField MIL-DTL-38999 connectors.

Amphenol Socapex

Power Converters

AC/DC PSU

· Complies with MIL-STD-704, MIL-STD-810 and MIL-STD-461.
· Wide input voltage range for adaptability.
· High efficiency to minimize power loss.

Amphenol Socapex

DC/DC PSU

· Complies with MIL-STD-704, MIL-STD-1399, MIL-STD-810, MIL-STD-461, MIL-STD-1275.
Wide input voltage range for adaptability.
· High efficiency to minimize power loss.

Amphenol Socapex

DC/AC Power Inverter

· Designed to comply with MIL-STD-461, MIL-STD-704, MIL-STD-810, MIL-STD-1275, MIL-STD-1399, RTCA DO-160, EN2282, MIL-DTL-901 and DEF Stan 61-5.
· Pure sine wave output for compatibility with sensitive electronics.

Amphenol Socapex

AC&DC/DC PSU

· Designed to comply with MIL-STD-461, MIL-STD-704, MIL-STD-810, MIL-STD-1275, MIL-STD-1399, RTCA DO-160, EN2282, MIL-DTL-901 and DEF Stan 61-5.
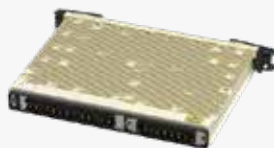· Wide input voltage range for adaptability.

Amphenol Socapex

VITA62 DC/DC and AC/DC PSU

· Designed to meet MIL-STD-461F, MIL-STD-704F, MIL-STD-810G, MIL-STD-1275.
· Designed to fit physical dimensions and connectors specified by VITA 62.
· Advanced power management techniques to optimize efficiency, reduce heat dissipation, and enhance overall system reliability.

Amphenol Socapex

VITA62 & SOSA alligned DC/DC and AC/DC PSU

· VITA 62 & SOSA Alligned VPX solutions.
· Designed to meet MIL-STD-461F, MIL-STD-704F, MIL-STD-810G, MIL-STD-1275.
· Designed to fit physical dimensions and connectors specified by VITA 62 &/or SOSA.

Amphenol Socapex

UPS: Uninterruptible Power Supplies

· Designed to comply with MIL-STD-167-1, MIL-STD-461, MIL-STD-901 and MIL-STD-1399-300B.
· Available with RS232 or Ethernet SNMP Control and Monitor.
· Provides up to 2kW of Backup
· Power for 1 hour, 1kW of Backup
· Power for 2 hours, & up to 20 Minutes at Full Power.

Amphenol Socapex

Power Distribution Units

PDU: from 1 to 32 outputs

· Designed to comply with MIL-STD-704, -810, -1275, DO-160 and Def Stan 61-5.
· 28V and 270V options.
· From 1 Channel to 32 channels.
· Current Limit Protection, Control via CAN, RS-485, Ethernet Communications.

Amphenol Socapex

Bus bar solutions

Busbar box

· I/O 38999 connectors & busbars combo.
· From 60 to 500 A.
· Several terminations of contacts available.
· Several busbar technologies & materials : Rigid, Flexible, Aluminium or Copper, insulated Box or connector to busbar shielding possibility.
· High Voltage versions available
· Thermal simulation available upon request.

Amphenol Socapex
Amphenol Auxel

Bus bars & Distribution bars Rigid and Flex versions

· Aluminum bars.
· Available in various standard sizes and shapes (custom design).
· High mechanical resistance.
· Up to 200 Amp.
· From -55°C to +150°C.

Amphenol AirLB France

Avionics

Flight-Critical Systems
SEFEE

Flight Controls & Consoles

Military Overhead NVIS Panel
SEFEE

Power Distribution Units

Helicopter Master box
SEFEE

Data Concentrators & Controls
(Elec/Opt)

Autopilot and Media converter
SEFEE

HMI

Grips, Winchmans, Joysticks
SEFEE

Circuit Breakers panels

Cabinet for eVtol
SEFEE

Cable Assembly – Electrical harnesses

Amphenol Cablescan

- Military harsh environment harnesses
- Aerospace harnesses
- Coaxial and RF cordsets
- High power harnesses
- Control panels, power distribution units & junction boxes

- AS9100
- ISO9001-2015
- IPC620
- IPC J-STD-001
- Cyber Essentials Plus
- VG96927-2

Amphenol India Interconnect

- Military harsh environment harnesses
- Missile cable assemblies
- Coaxial and RF cordsets
- Power harnesses
- Control panels, junction boxes

- AS9100
- ISO9001-2015
- IPC620
- IPC J-STD-001

Amphenol Socapex – Electrical harnesses

- Military harsh environment electrical harnesses
- Overmolded terminations
- Overbraided cables (brass or nylon)
- Twinax, Quadrax, Octomax, Coaxial and RF terminations
- Power harnesses
- Junction boxes
- Rework and retrofit capabilities all around the world
- 1800m^2 of cable assembly lines

- AS9100/EN9100 – Aerospace Industry Standard
- NADCAP – Electronics Certification
- FAA Repair Station (North America and Europe)
- Air Agency Certificate
- ISO 9001:2008
- IPC/WHMA-A-620 & J-STD-001
- MIL-STD-790
- IPC-A-610

Amphenol Socapex – Fiber optic cordsets

- Fiber optic multimode and single mode cordsets
- Expanded Beam CTOS-CTOL cordsets, multimode and single mode
- Expanded Beam TacBeam cordsets, multimode and single mode
- ARINC801 cordsets
- #16 & 12 LuxBeam termination to be installed in Mil- DTL-38999, SIM EN4165 connectors
- MT terminations
- Installation on drums for battlefield application

Amphenol Sefee

- Complex military & commercial aeronautical cable assemblies
- Installation of the cable assemblies in the aircrafts
  - 3D routing on DMU (CATIA V5)
  - Formboard
  - Electrical wiring
  - Electrical netlist
- Electronic equipment
  - Concept definition & design to spec
  - Development
  - Testing & qualification
  - Production

- EN9100
- ISO9001
- PART-145 certificate no.FR.145.383
- PART-21G certificate no.FR-21G-0092
- Entitled to confidential Defense
- Entitled to confidential NATO

Contact us

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