

Amphenol



Interconnect solutions for **Navy and Marine**

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 Africa, and sold by a worldwide sales and marketing organization.

Learn how Amphenol interconnect solutions will enable your organization to succeed. Our entire organization is at your service.



Amphenol is an industry leader of harsh environment electronic interconnects servicing the Naval market. Whether powering vital control systems, initiating countermeasures, or transmitting critical communication data; Amphenol's broad product offerings and high reliability ensure a safe and successful mission. Our deep expertise in technologies (high-speed, miniaturization and high power) and materials (marine bronze, stainless steel) allows us to understand your operational needs and respond to them.

Key applications we support:

- ▶ Shipboard Ethernet Network
- ▶ Tactical computer
- ▶ Torpedos
- ▶ Very long range radio
- ▶ Console
- ▶ Perimeter security system
- ▶ HD video cameras
- ▶ Radars
- ▶ Missile tracking/launch systems
- ▶ Positioning systems
- ▶ Numerical periscopes

We take pride in supporting the Naval market and will continue to provide our highest level of technology, quality, and service to do so.

**CUSTOM
DESIGN**

A large range of interconnect solutions for the navy & maritime market:

MIL SPEC COMPLIANT
PRODUCTS

CUSTOM DESIGN
PRODUCTS

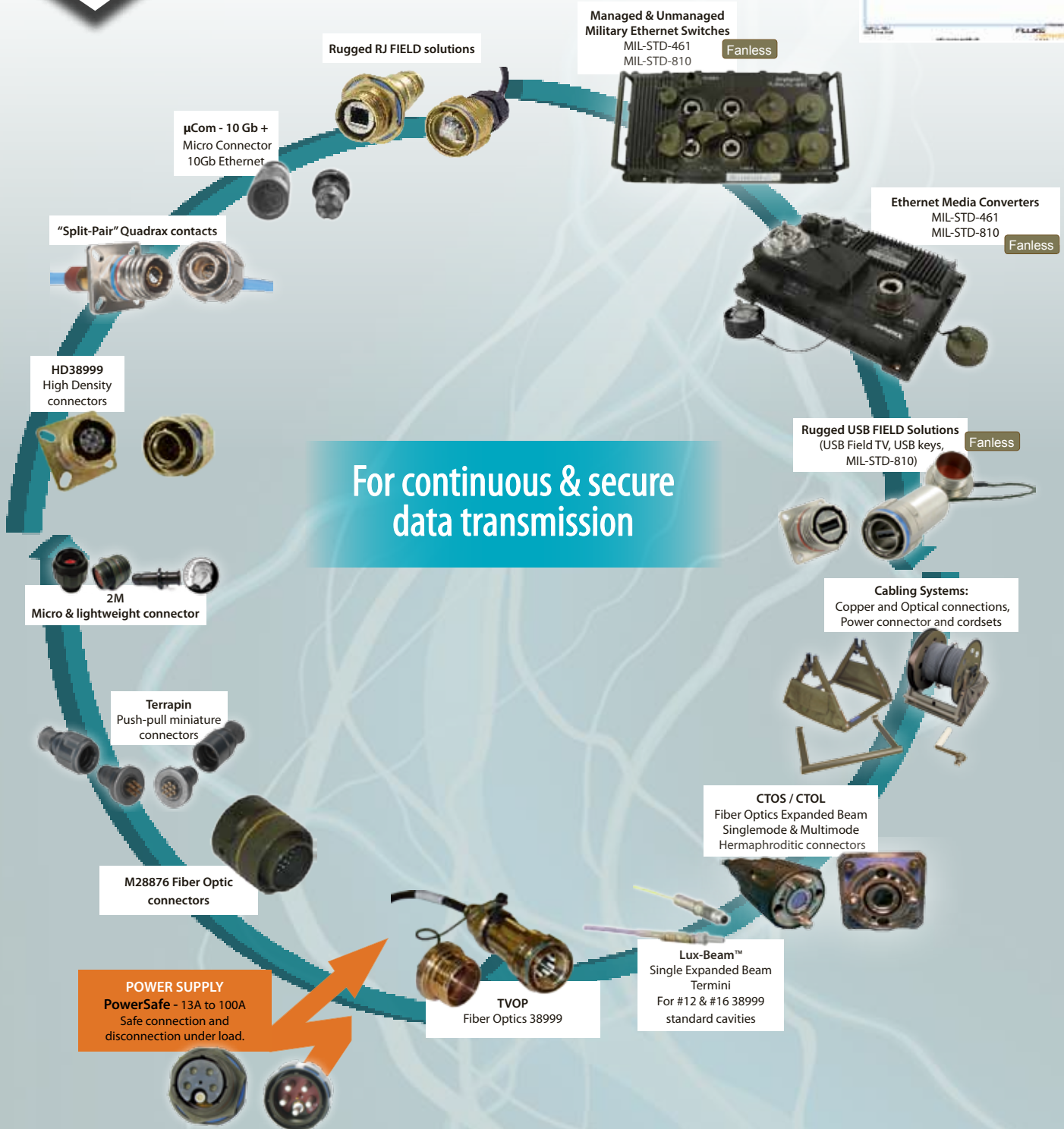
ADDED VALUE
SOLUTIONS

ETHERNET NETWORK SOLUTIONS

Amphenol offers solutions for the evaluation and implementation of Ethernet 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.



**Battlefield Communication
& Shipboard Ethernet Networks**

HIGH-SPEED

Need for high-speed?

The size and the weight reduction of a system and the constant increase of data exchanges in the telecommunication networks have stimulated the need for high-speed electronics and passive components. Designing high-speed systems requires finding the right technology with the best data rate for each architecture levels (boards, contacts, connectors, cables) to increase the speed of communication and preserve the signal integrity.

Check out some of our products designed for high-speed applications.

FIBER OPTICS



TVOP

- ▶ Optical Butt joint technology
- ▶ Fully keyed thread connectors as 38999 series III
- ▶ Aluminum or bronze version
- ▶ 1/2/4/8 channels
- ▶ Singlemode & Multimode option
- ▶ Ethernet & RF compliant



M28876 Fiber Optic connectors

- ▶ Precision-machined to MIL-PRF-28876, Rev. E specification
- ▶ 3 shell sizes: 13-4, 15-6, 15-8, 23-18, 23-31 channels
- ▶ Six keying options
- ▶ Inserts are interchangeable from plug to receptacle
- ▶ Fully qualified M28876 connectors
- ▶ Qualified on singlemode or multimode M29504/14 and /15 termini



FS12H Pierside 12-Channel Fiber Optic Connector

- ▶ Hermaphroditic connector
- ▶ Rugged design: FS12 Pierside connector handles the rigors of deployment and harsh environment conditions for navy applications
- ▶ Environmentally sealed connector: ensures environmental integrity
- ▶ Qualified MIL-PRF-29504 /14 & /15 Termini : singlemode and multimode
- ▶ Removable insert cap



TFOCA II® & singlemode

- ▶ Fiber optic, multimode connector with hermaphroditic design
- ▶ Meets the MIL-C-83526 performance criteria
- ▶ Easy field maintenance and cleaning



Lux-Beam™ Expanded beam termini

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



CTOS

- ▶ 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



SIM / EN4165

Optical Modules for MT ferrule, Lucxis® contacts (EN4830) or Elio® contacts (EN4701)

- ▶ Metallic SIM MonoModule Push Pull Connector
- ▶ Fitted with SIM module with optical 12-Fiber MT ferrule, 6 Lucxis® or 4 Elio® optical termini
- ▶ Modules also available for MPO/MTP connectors or Expanded beam optical termini
- ▶ Singlemode / Multimode



TACBEAM

- ▶ Supports both multimode and single mode fiber
- ▶ Meets the MIL-C-83526
- ▶ Monolithic insert design facilitates cleaning
- ▶ Hermaphroditic design
- ▶ Non-contacting interface allows thousands of mating cycles



Media Converter

- ▶ Gigabit Ethernet fiber converter
- ▶ Fully MIL-STD-461E compliant
- ▶ CTOS or TACBeam TVOP Multimode or Singlemode

Fanless

PCB FLEX



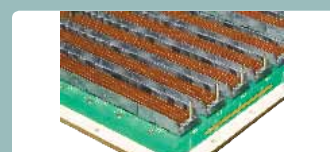
Rigid Flex Assembly

- ▶ Routing in smaller area to get more dense system
- ▶ Blind and/or Buried-via's to create more density



Flex Circuits

- ▶ Cost-effective and lightweight solutions
- ▶ Amphenol's product offering includes type I through type V flex circuits Single-sided, double-sided & multi-layer options
- ▶ Military & IPC spec. qualified



Backplanes

- ▶ High performance materials for high speed digital applications
- ▶ Precisions back-drilling for high speed signal integrity
- ▶ Blind and/or Buried -via's to create more density

Confirmed expertise with a wide range of high-speed solutions

Amphenol is leading the way when it comes to providing our customers with cutting-edge high speed solutions. We demonstrate our expertise in every high-speed development including modeling, simulation and testing solutions. Our capabilities include differential impedance measurement, propagation delay simulation, insertion & return loss modeling, near-end crosstalk (next) & far-end crosstalk (fext) characterization and eye diagram realization.

Amphenol has the right high-speed connector for every application and signals to be transmitted (rf, ethernet, optics, single-ended, diffy pairs,...).

Check out some of our products designed for high-speed applications.

BOARD TO BOARD



HDAS

- 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



HiLinX^{1.905} with Power contacts

- Full modular PCB interconnect to meet all the market needs
- With 20A power contacts or 70A RADSOK high power contacts
- Fast design, fast delivery, fast integration for long-term programs



HiLinX cordset

- High-data rate board to cable interconnect solution
- Turn-key cordset equipped with Amphenol technologies
- Board-to-cable HiLinX connector, high data rate RJTV and cable assembly



Viper®

- High density, modular, high vibration, ESD shielded connectors
- Meet VITA4 46 or 48 specifications in 3U and 6U configurations
- Signal integrity to 10 Gbps



XCede®

- 20+ Gbps performance
- Linear density of 82 differential pairs per inch
- Meets the IEEE 802.3ap v3.2 10GBASE-KR standard

ETHERNET

NEW



µCom-10Gb+

- 10 Gb Ethernet/Cat6A
- 15mm diam external dimension
- Miniature ruggedized connector
- Environmental protection similar to MIL-DTL-38999
- Thread and Push Pull mating mechanism

NEW



Quadrax & Split Quadrax

- For use in MIL-DTL-38999 or EN4165 connectors
- Splitpair Quadrax suitable for 10GBASE-T
- Frequency range up to 3 GHz
- Are 100Ω, 110 Ω and 150Ω matched impedance



RJ Field TV

- Rugged Gigabit ethernet solutions
- No tooling, fitted directly with standard cordset (RJ45 Cat5e, Cat6 ...)
- Environmental protection: IP68, dust...
- One piece compounded receptacles
- Pending VG 95319 certification
- Cat6

NEW



RJ Switch

- Rugged ethernet switch
- From 2 to 28 different ports of various types (Fast, Gigabit, Fiber)
- Managed and unmanaged versions
- Fully MIL-STD compliant

Fanless



USB Field - USB3.0

- No hazardous on-field cabling and grounding
- IP68, improved EMI protection
- Dataspeed 10x higher than USB2.0
- Available with plug + cordset

NEW

ROHS CORROSION RESISTANT MATERIALS

The use of Cadmium, as well as hexavalent chromium, are key issues for many Military or Navy 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), ...

Amphenol is the first connector manufacturer being QPL MIL-DTL-38999 qualified for two cadmium substitutes with the class T (Durmalon Nickel PTFE) and the class Z (Black Zinc Nickel)

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.



MARINE BRONZE



► Derived MIL-DTL-38999 Series III ► CECC 75.201.002

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

BLACK ZINC NICKEL



► MIL-DTL-38999 Series I, II, III ► 38999 Derived Product ► PT 451-MIL-DTL-26482 Serie I ► 1900SIM connectors

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

DURMALON™ NI PTFE PLATING (CLASS Z)



► MIL-DTL-38999 Series I, II, III

- 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



► MIL-DTL-38999 Series III ► 38999 Derived Product

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

BLACK SILVER



► Terrapin

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

NICKEL



► MIL-DTL-38999 Series I, II, III ► 38999 Derived Product ► PT 451-MIL-DTL-26482 Serie I ► SIM connectors

- Electroless Nickel
- Salt spray 48hours endurance with shell to shell continuity
- Aluminum, stainless steel, and composite (38999 or EN3645)

POWER

High-current power interconnect solutions for every military application

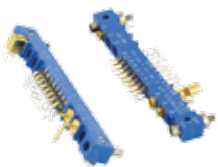
The electrical integration of embedded equipments in military devices keeps increasing. This requires an important amount of upstream power. The multiplication of voltages and current levels in the systems requires a tremendous amount of upstream power.

When it comes to accessing electrical supply, wherever it can be, Amphenol is here to support the most demanding needs under the most stringent conditions. Amphenol enjoys a long experience in the field of electrical power, and thus benefits from a large array of competencies and technologies.

With high current rate contacts, high-voltage connectors, overmolding, but also technologies that tackle the side effects of increased power, like Thermal Clamps and so on, Amphenol provides a comprehensive range of capabilities which meet the next generation of electrical power challenges.

Check out some of our products designed for high-power applications.

AT THE BOARD LEVEL



127/HE8 series

- ▶ 2.54 [.100] staggered grid (1.27 [.050] offset), 2.54 [.100] between rows
- ▶ Proven, reliable and robust rectangular PCB connectors
- ▶ Numerous contact terminations and fittings
- ▶ Hybrid patterns with power or coax contacts



HiLinX^{1.905} with Power contacts

- ▶ Full modular PCB interconnect to meet all the market needs
- ▶ With 20A power contacts or 70A RADSOK high power contacts
- ▶ Fast design, fast delivery, fast integration for long-term programs



Thermal clamps

- ▶ Chassis devices, which both help to dissipate components heating and block the daughter cards into the box slots grooves



Smash

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



Radsok®

- ▶ Solutions for high-current single-point connections to PCB
- ▶ Up to 120 Amps to the board
- ▶ Preserve surface area and provide more flexibility in board design



SIHD series

- ▶ 2.54 [.100] staggered grid (1.27 [.050] offset), 1.905 [.075] between rows
- ▶ Lateral displacement capability allowing the use of thermal clamps: ± 0.25 [$\pm .010$]
- ▶ Possibility to have a central ground strip
- ▶ Designed for severe mechanical environments
- ▶ Low weight

OUTSIDE THE BOX



38999 Power

- ▶ Derived from the MIL-DTL-38999 series
- ▶ Equipped with ruggedized power inserts
- ▶ Available in different shell types



PowerSafe

- ▶ Transmit high-power with voltages over 500V (EN61984, EN60664)
- ▶ Meet the most stringent requirements of the market regarding user safety
- ▶ Designed according to VG96944



RHINO 38999 Up to 1000A power

- ▶ Derived from MIL-DTL-38999 Series III
- ▶ Low resistance Hyperbolic RADSOK contacts
- ▶ IP2X finger protection on plugs and receptacles
- ▶ EMP filtered option



Monoblock assembly 3240 series

- ▶ Available with individual or shunted terminals, from 1 to 12 terminals, in different diameters
- ▶ Permanent current up to 250 Amps / Max current rating: 340 Amps
- ▶ For copper or aluminum cable connections
- ▶ Temperature up to 230°C
- ▶ Also available: cover Block for 230V applications



ErgoN'

- ▶ Ergonomic, rugged & IP68 sealed plastic connector
- ▶ High current capabilities, up to 350A
- ▶ IP2X (user security) and 3000 mating cycles features
- ▶ Push Pull Mating
- ▶ Designed for full electric boats



Aluminium Bus Bars

- ▶ To be used between power generator boxes, terminal blocks, and small terminal block interconnects
- ▶ Many standard sizes and shapes
- ▶ High mechanical resistance
- ▶ Temperature up to 150°C

ACCESSORIES & CONTACTS

Amphenol product offerings go beyond connectors with a large range of accessories designed to optimize deployment of communications systems in harsh environments.

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

BACKSHELLS



METRIC SEALING GLAND

- ▶ Backshells for MIL-DTL-38999 series III or TV connectors
- ▶ Ensure the adaptation on metric sealing gland (M16 to M63)
- ▶ Straight or 105° angled version
- ▶ Nickel plating on aluminum or bronze marine version
- ▶ Adjustable on size 9 to 25 connectors for straight version and size 11 to 25 connectors for 105° angled version
- ▶ Cabling chamber from 30 mm to 80 mm (5 lengths in straight version, 6 lengths in 105° angled version)
- ▶ These backshells are NGD certified

PROTECTIVE CAPS



Standard Caps

- ▶ Protect your plugs and receptacles against dust, water, moisture, EMI and contact bending
- ▶ For 38999 Series I, II, III (MIL-DTL-38999) & PT/451 Series (MIL-DTL-26482)
- ▶ Large range of material & finish

CONTACTS



RF Coaxial Contacts

- ▶ Ideal coaxial contact for battlefield communication and radar application
- ▶ The highest frequency available in the market
- ▶ For 38999 series I,II,III (MIL-DTL-38999) & SIM/EN4165 connectors
- ▶ The largest range of contact size available on market



AS85049 /38 or /39 RANGE

- ▶ Compliant to AS85049 standard
- ▶ Strain relief backshell improving mechanical behaviour
- ▶ Straight or 105° angled version
- ▶ Nickel plating on aluminum (RoHS compliant)
- ▶ Tightening ring option with anti decoupling device for 38S or 39S version
- ▶ Easy maintenance and reparation process



Snap Caps

- ▶ In metal, plastic and neoprene
- ▶ Self-closing after disconnect
- ▶ Protection against Dust & Water spray

NEW



Coaxial for Video Acquisition

- ▶ Meet the HD-TV protocols up to 3G-SDI
- ▶ For 38999 series I,II,III (MIL-DTL-38999) & SIM/EN4165 connectors
- ▶ Crimp and PCB versions available



TV NSA RANGE

- ▶ Backshells for MIL-DTL-38999 series III or TV connectors
- ▶ EMI protection thanks to conical rings system
- ▶ Electrical continuity between the braid, the backshell and the connector
- ▶ Free inner ring avoids twisting of the braid during screwing
- ▶ Nickel plating on aluminum (RoHS compliant)
- ▶ Sealing is ensured by a heat shrink molded piece (straight or right angled)

OTHER SOLUTIONS

Amphenol provides also other interconnect systems for military harsh environment applications.

From military specification connectors to specific products, that are custom designed to perfectly match our customer expectations, we provide an unequalled array of competencies to serve our customers with Stereolithography modelling for rapid prototypes, we are able to provide fast initial feasibility study with technical evaluation and space modelling.



WET
MATEABLE

Submariner

- For diving equipment, ROV's, submersible pumps, and underwater cameras
- Depth: > 6,000 meters (600 bar)
- Operating Temperature: -5°C to 65°C
- Max Operating Voltage: 600V
- Machine-molded Neoprene insulation material
- Options for 316 Stainless, Titanium, and Aluminum bulkhead material



USB Memory sticks

- Metal shell based on MIL-DTL-38999
- Memory capacity from 2GB to 128GB
- IP68
- MIL-DTL-810F



System Attachments, Standoffs

- High performance attachments to organize cable harnesses throughout a vehicle
- Accommodate wide range of cable diameters
- Non-corrosive, non conductive
- Ease of installation & maintenance



Deep immersion Connectors

- Connectors for dry mate applications. Provides a high reliability with dry a mate sealing down to 200 meters immersion
- Screw coupling connector
- Marine brass material
- Signal, Coax contact



Cable Clamp ABS 1339 series

- Lightweight composite, perfect protection from shocks & vibrations
- For cable harnesses fixing on structure
- 8 sizes for cable harnesses diameter from 3 to 48 mm
- For general use or fuel zone environment, temperature up to 150°C
- Also available in Lighter versions (ABS1339 Light series)



Cable clamp CC5516 series

- Composite clamps (weight saving up to 50% vs metallic NSA5516 clamps)
- For cable harnesses fixing on structure
- 37 sizes for cable harnesses diameter from 3 to 60 mm
- Perfect protection from shocks & vibrations
- Use in high temperature environment (225°C)



Eco Mate

- Cable screw connection with clamping ring
- Strain relief and mounted gasket all in one component
- Ergonomically shaped handle for a better grip and safer handling
- Fastening for the protective caps on the receptacle housing
- One cable housing for all cable diameters (6 mm - 12,5 mm)



Pipe Clamp ABS 1410 series

- For hydraulic pipes fixing on structure
- Available in 1 to 5 holes, various & mixed diameters (from 6.3 to 19 mm)
- Lightweight composite, perfect protection from shocks & vibrations
- For general use or fuel zone environment
- Temperature up to 170°C



164 Series Audio Connectors

- QPL under MIL-C-55116
- Water resistant, five & six pin
- Contact electrical connectors for use in low voltage audio frequency circuits & applications
- Extensively used in military communication



NMEA 2000

- Compact and rugged design available in IP67/IP68 unmated waterproof to withstand harsh marine environments



PT/451/HE301B VG95328

- 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



Heavy Mate

- Modular metal connectors for applications indoor & outdoor
- Inserts for signal and power transmission
- Pole sizes from 3 up to 280 poles per connector
- Current ratings up to 250A per contacts and voltages up to 1000V
- Modular connector system to configure customized solution

SPACE & WEIGHT SAVINGS

Smaller, lighter, more efficient connectors

Thanks to constant evolution of technologies, every new generation of electronics systems is smaller than the previous one. That trend will continue and has an impact on the interconnect industry pushing to develop smaller, more efficient, higher density products.

Amphenol's connector technology meets your miniaturization needs

Large investments in R&D and advanced technology have played a key role in providing light-weight solutions and composite materials to military and aircraft manufacturers' programs. Our array of competencies and technologies include thermoplastic, thermoset and silicone. All our connectors and interconnect systems are tested and measured to meet the actual light-weight demand and anticipate the need for both stronger and lighter composite solutions for all military and aerospace applications.

Check out some of our solutions dedicated to your miniaturization needs.

MINIATURIZATION

NEW



2M

- ▶ Small and lightweight connector
- ▶ Versatility of styles and options
- ▶ Mil-spec performance for harsh environmental conditions



SC39

- ▶ Meet or exceed Mil-DTL-38999 series III requirements (lighter, smaller, better shock and vibration resistance)
- ▶ Lanyard application, emergency disconnect, space constraints, quick installation



HD38999

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



CTV

- ▶ Qualified to MIL-DTL-38999 Series III standard
- ▶ Lightweight
- ▶ High corrosion resistance
- ▶ Durability



Module 1750 series

- ▶ Wiring optimization for weight, space and cost savings
- ▶ High contact density, Compact design, modules stackable on tracks (up to 36 cts size 22 per module)
- ▶ For signal & low current distribution
- ▶ Lightweight modules & Sealed connection (IP66 / 68 & 69K)



HD SIM / EN4165

- ▶ Removable high density modules
- ▶ 30 contacts size 23 per module (50% more vs size 22 contacts)
- ▶ Crimp our PCB contacts / EN3155 spec pending



RNJ RNJ LP

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



SIM/EN4165 Composite

- ▶ Lightweight composite & modular connector
- ▶ For sealed (IP66 / 68 & 69K) and EMC applications in harsh environment
- ▶ Modularity for customization: all technologies in one shell (signal, power, optics, Ethernet, Quadrax...)

MILITARY HARNESSES

Amphenol is also offering electrical and optical harnessing tailored to your technical specifications.

Our experience in connectors for harsh environments has given us a real expertise in assembling Ethernet network Harnesses, power supply/ power cords and point to point harnesses. We have different activities dedicated to electrical harnesses manufacturing for military land and industrial applications.

Tell us about your wiring needs, our experts are at your disposal.

kit cable
+ connector

Assembly
kit



Electrical Harness

- ▶ Kitting preparation for on-site installation
- ▶ Heat-shrinking for harsh environment



Overmolded cable assembly

- ▶ Overmolded harsh environment cable assembly
- ▶ For both high and low-temperature applications
- ▶ Impervious to high-vibration, high-abrasion, moisture, oil & corrosive elements



Ethernet C/A

- ▶ USB & RJ Field cords
- ▶ Quadrx Mil/Aero connectors
- ▶ µCom connectors

(Global solutions with Amphenol Socapex switches & media converters)



Signal/Power C/A

- ▶ Single way, multiway until 500 A
- ▶ 500 V connectors
- ▶ Copper big section C/A



Military Headset Cables

- ▶ Specific to various OEM radio platforms
- ▶ Utilizes overmold technology
- ▶ Shielded solutions to accommodate various length and connectors



2M Overmold Cables

- ▶ Overmold to withstand harsh environments (IP67 environmental survivability)
- ▶ Dedicated routing for specific installation on navy ship
- ▶ Low profile designs to save space
- ▶ BI-directional strain reliefs with robust encapsulations of transition areas
- ▶ 360° EMI shielding



Fiber Optics Cables

- ▶ Wide range of tactical cables for deployable harsh environment optical links
- ▶ Available in a variety of applications, sizes, materials, accessories
- ▶ For various diameters and cable lengths



All types of protection

- ▶ Open textile sleeves
- ▶ Conduits
- ▶ Overbraiding
- ▶ Heat-shrinkable sleeves



ESATA Cable Assembly

- ▶ For military communications, video, and computer storage
- ▶ Designed for harsh environments



Deep immersion Harnesses

- ▶ Overmold to withstand deep immersion (up to 200m)
- ▶ Custom molding shape further customer request
- ▶ 360° EMI SHIELDING

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