

HIGH SPEED CAPABILITIES

Amphenol

MILITARY HIGH SPEED



Amphenol Military High Speed specializes in the design and manufacture of ruggedized integrated solutions for all major high-speed protocols for harsh environment military and aerospace applications.



High Speed Connectors

Our high speed connectors support a variety of high speed protocols including Gigabit Ethernet, 10/100/1000 Base -T, PCI Express, and more.



Fiber Optic Connectors

Our industry-standard fiber optic connectors support multiple termini including MIL-PRF-29504, ARINC 801, MT Ferrules, and more.



High Speed Contacts

Amphenol's high speed contacts are optimized for high-frequency and high-speed data transmission in rugged applications.



High Density

Amphenol offers a selection of connectors with high density arrangements, including the Centaur Series, which combines a high-speed D38999 connector and cable in one rugged assembly.

OPEN STANDARDS

Amphenol open standards technologies are aligned with the Modular Open Systems Approach (MOSA) and its frameworks.

R-VPX Evolution 2.0 VITA 46.30



R-VPX Evolution 2.0 is designed and optimized to achieve data rates in excess of 25 Gb/s, meeting VITA 46.30 requirements.

VITA 66.1 and 66.4



Amphenol's VITA 66 family of fiber optic connector products are ruggedized blind-mate optical MT module/backplane connector systems designed to meet the VITA 66.1 and 66.4 open architecture specifications.

MIL-HD2 VITA 91



The high-density SOSA™ and VITA 91-aligned MIL-HD2 provides 56Gbps PAM4 speeds in a compact 3U form factor with 3-, 4-, and 6-pair configurations available.

Amphenol Aerospace SOLDIER-WORN SOLUTIONS

The modern soldier is evolving.

Heads up displays, advanced optics, integrated comms and navigation systems, miniaturized drones, and more are making the modern warfighter more connected, capable, and lethal than ever.

Amphenol offers a suite of interconnect systems designed with the soldier in mind, enabling the next-generation of warfighter capabilities.



Build It At www.Open.Tech Open.Tech
by Amphenol

www.amphenol-aerospace.com

TECHNOLOGIES



Circular

Amphenol offers the largest selection of harsh environment circular connectors on the market, including numerous options across MTL-DTL-38999 Series I, II, and III.



Power

Amphenol Power Solutions are intended to tackle high current and high voltage requirements in any application.



Data

Amphenol offers a wide selection of connectors and contacts for meeting harsh environment data and signal demands.



Hybrid

Amphenol connectors can be configured to deliver both power and signal simultaneously.

MICROMINIATURE



Series Five

An innovation of MIL-DTL-38999 Series III. Up to 20% smaller and 50% lighter than its Series III counterpart. Available in multiple configurations and with higher voltage capabilities.



2M

2M is a Micro-Miniature interconnect series optimized for Size, Weight, and Power (SWaP).

SOLDIER-WORN SOLUTIONS



Warrior Grip

Bringing fast-charging 10-amp capability to the warfighter, Warrior Grip exceeds the rigorous requirements of the U.S. Army's Nett Warrior program.



2M804

Extremely rugged push-pull connectors designed for use in soldier-worn tactical equipment. Waterproof, dustproof, and highly resistant to EMI.



2M Ram-Lock

Miniaturized push-pull 2M that utilizes ball bears for locking and a traditional D38999 EMI band for shell-to-shell conductivity enabling much more consistent and reliable engagement.



38999 Ram-Lock

Push-Pull quick disconnect D38999 interconnect that utilizes the reliable positive locking interface of Ram-Lock.



High Power Ram-Lock

The high power Ram-Lock utilizes a single-pole design consisting of high current contacts for use in high amperage applications.



MRC (Multi-Media Ruggedized) Connectors

A micro-miniature solution ideal for military communications systems running Gigabit Ethernet, USB 2.0/USB 3.0, HDMI and 10 Gigabit Ethernet.

FEATURES

Amphenol Aerospace offers a variety of features and capabilities for soldier-worn platforms, including:

MIL-SPEC Derivatives



38999 Plus

38999 Plus offers customized connectors with a MTL-DTL-38999 style foundation to tackle any interconnect challenge.

Quick Disconnect



Ram-Lock

A push-pull quick disconnect system with positive locking that is perfect for applications where accidental unmating is a concern.

EMI/RFI/EMP Shielding



Filter Connectors

Amphenol Filter Connectors provide significant protection against EMI/RFI interference and EMP with a variety of available filter options.

Advanced Platings



AP-93

REACH/RoHS compliant finish that meets 1000 hours of dynamic salt spray, 500 mating cycles, and meets the millivolt drop shell-to-shell conductivity of nickel (Class F).

*Visit our website or contact your Amphenol representative for information on our other plating options.