

MIL-DTL-38999 Series I, II, and III Connectors, 38999 Derivatives, and Custom Accessories

The Original MIL-SPEC Connectors for Modern Harsh Environments

Amphenol was one of the initial developers of MIL-DTL-38999 when the specification was developed in the 1970s. The Scintilla division of the Bendix Corporation, later incorporated into Amphenol Aerospace, was a key player in the development of MIL-C-38999, which evolved into MIL-DTL-38999 Series I. Bendix also developed the low-profile Bendix JT connectors that became standardized as MIL-DTL-38999 Series II and was instrumental in the development of MIL-DTL-38999 Series III.



The breakthroughs in miniaturization, high-density contact arrangements, and environmental sealing achieved through these connectors became industry-standard features in interconnect technology that are used throughout high-performance military and aerospace applications to this day.

Our MIL-SPEC Qualified Connectors are designed to meet the most rigorous standards for performance and reliability in harsh environments.

- MIL-DTL-38999 Series I, Series II, and Series III
- MIL-DTL-26482 Series II
- MIL-DTL-83723
- MIL-DTL-5015
- MIL-DTL-22992 Class L connectors

With a major role in the development of modern interconnect systems, Amphenol circular MIL-SPEC connectors have been trusted to deliver harsh environment connectivity solutions for mission-critical systems for decades.



[MIL-DTL-38999 Series III - TV](#)



[MIL-DTL-38999 Series II - JT](#)



[MIL-DTL-38999 Series I - LJT](#)

Mil-Spec Derivatives



[High Temperature Series Five Connectors](#)



[Deep Space 38999](#)



[High Power 38999](#)



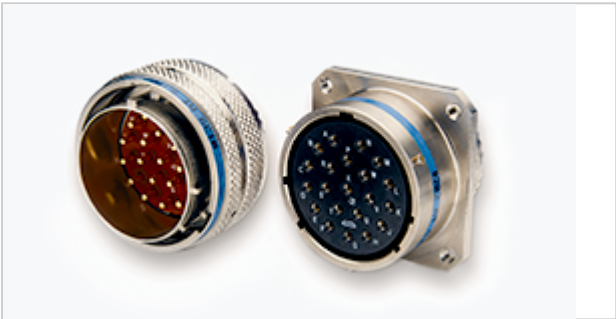
[High Voltage 38999](#)



[HD38999 High Density](#)



[Dualok High-Vibration](#)



[SJT Connectors](#)



[Aquacon Connectors](#)



[ETV38999](#)

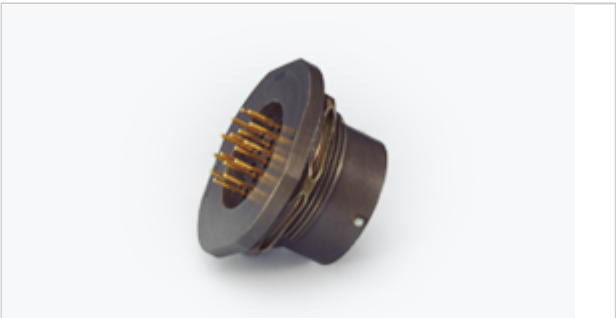
Printed Circuit Board Connectors



[D38999 Series III PCB](#)



[D38999 Series II PCB](#)

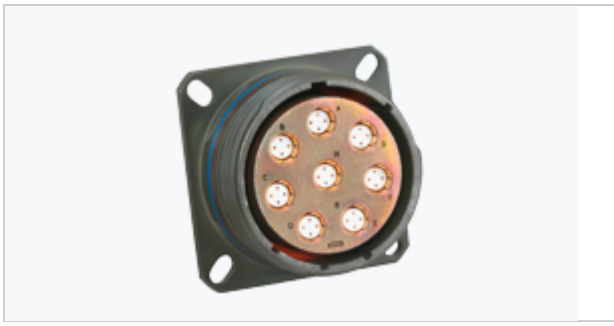


[D38999 Series I PCB](#)



[D38999 PCB Hermetics](#)

High Speed


[High Speed Connectors](#)

[Fiber Optic Connectors](#)

EMI/EMP Filter Protection


[D38999 Series III Filter Connectors](#)

[D38999 Series II Filter Connectors](#)

[D38999 Series I Filter Connectors](#)

Hermetic/Sealed


[D38999 Series III Hermetic](#)

[D38999 Series II Hermetic](#)

[D38999 Series I Hermetic](#)

[Ampheseal High Pressure](#)

Lanyard Release / Quick Disconnect Connectors


[D38999 Series III Breakaway Fail-Safe](#)

[D38999 Series I LJT Breakaway](#)

[T-Line Push-Pull Connectors](#)

Custom Designs and Accessories


[38999 Bulkhead Feedthroughs](#)

[38999 Integral Accessories](#)

[Backshells, Strain Reliefs, Caps, Dummy Receptacles](#)



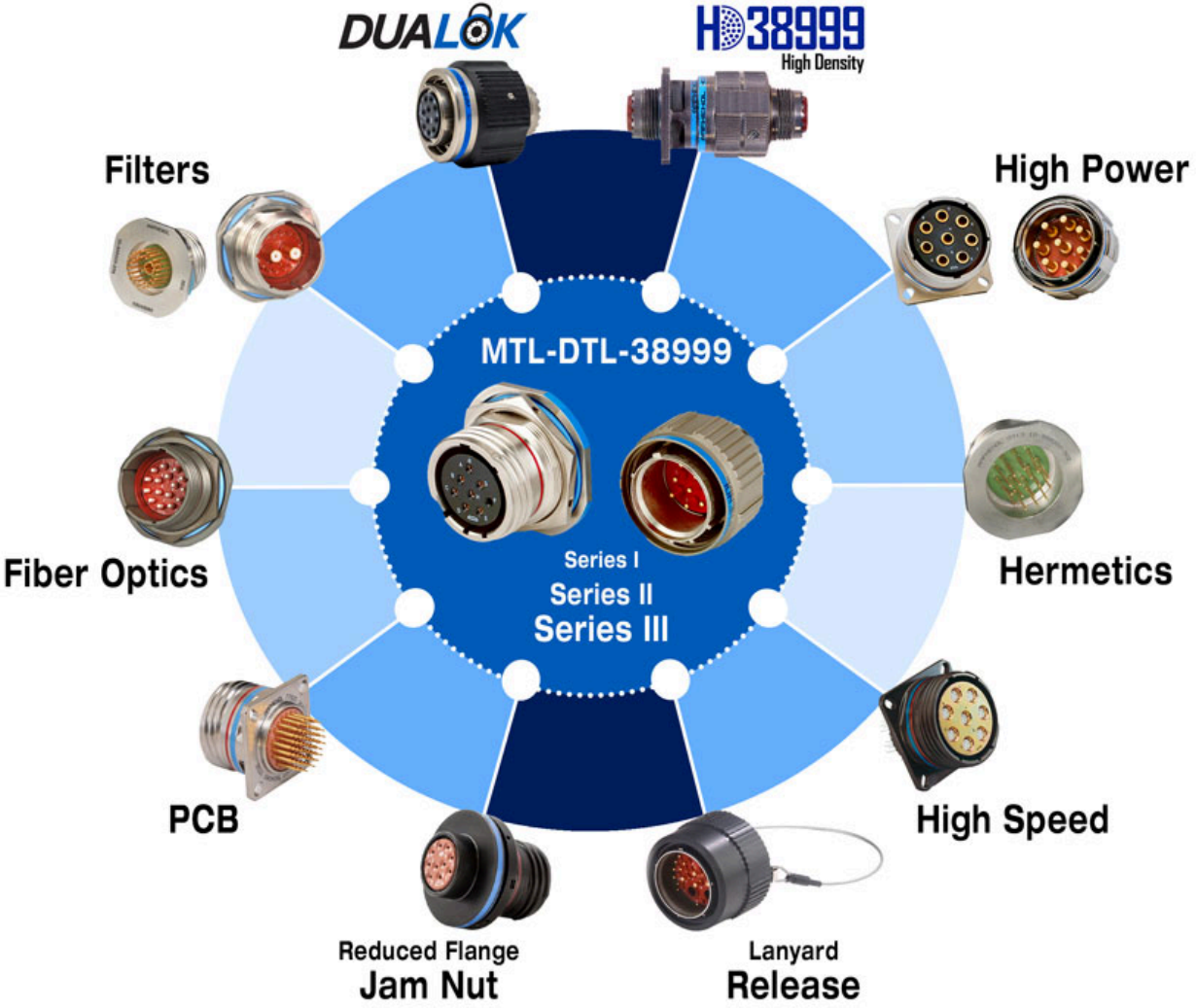
[38999 Connector Savers](#)



[Alternate to Cadmium Platings](#)

MIL-SPEC Connector Derivatives

Amphenol
Aerospace



Options	
EMI Filter Connectors	Our Filter Connectors are optimized for electromagnetic interference (EMI) shielding and radio frequency interference (RFI) shielding and are based on the most popular MIL-SPECs: D38999 Series I, II, III; 26482; 5015; and 2M Micro 38999. We also build Filter Adapters for retrofitting existing systems with EMI/RFI shielding, as well as Transient Voltage Suppression (TVS) Diode Connectors and Metal Oxide Varistor (MOV) Connectors for protection against EMP and transient voltage events
Hermetic Connectors	<p>Our Hermetic and Sealed Connectors are available in the same MIL-SPECs, with numerous QPL versions. Amphenol hermetically sealed connectors feature glass or epoxy seals, offering superior leak-rate performance in a ruggedized package.</p> <p>Both Filter, Hermetic, and Sealed Connectors come with various customization options, including special shell geometries, printed circuit board (PCB) contacts, and high-speed contacts.</p>
Miniature and Micro-Miniature Connectors	Our collection of Miniature and Micro-Miniature Circular Connectors includes the 2M Micro 38999 series, which delivers the performance of a D38999 Series III connector but in a more compact and lighter form. We also offer the Bantam Micro-Bayonet Series, an economical and lightweight option for general-purpose use in commercial aerospace. Our miniature and micro-miniature solutions also include the Multi-Media Ruggedized (MRC) connectors and the Warrior Grip Series, which is specifically designed for soldier-worn systems, including the U.S. Army's Nett Warrior system.
High Power Options	Amphenol's High Power and High Voltage Connectors and Contacts are capable of handling higher currents and voltages for applications that demand extensive power distribution.
Waterproof Connectors	Our Aquacon High Pressure Immersible Connectors are thoroughly sealed against water ingress and incorporate 316 stainless steel shells for corrosion resistance. With the ability to withstand 1500 PSI, Aquacon provides a secure waterproof connection for applications facing extensive fluid immersion or hazardous deep ocean environments. Also available in a hermetic option for an airtight seal that provides extra protection.
Quick Disconnect Connectors	Our D38999 Breakaway Fail-Safe Connectors feature a highly durable, lightweight non-metallic lanyard designed to enable rapid quick disconnection. Many other Amphenol connectors such as our 2M Micro-Miniature Series and Push-Pull Connectors incorporate quick disconnect features.
Dualok High-Vibration Connectors	Our Dualok High Vibration Connectors are enhanced for severe high-vibration environments and exceed MIL-DTL-38999 Series III vibration resistance.
Bulkhead Feedthrough Connectors	Our bulkhead feedthrough connectors simplify installations by eliminating discrete wire termination and achieving a secure and reliable power or signal connection through a bulkhead or panel. Also available in a fiber-optic connector configuration .
Jam Nut Connectors	Our Jam Nut connectors allow you to save space and weight in your PCB applications due to a reduced flange design, which has a smaller profile than standard jam nut receptacles.
Extensive Contact Options	Our MIL-SPEC connectors utilize our complete line of crimp, solder, printed circuit tail (PC tail), printed circuit board (PCB), and compliant pin contacts from size 0 to size 22D.
Connector Savers	Protect your connectors from the wear and tear of repeated mating and extend their service life with our 38999 Connector Savers .

Options	
RoHS-Compliant Plating	Environmentally friendly, cadmium-free plating finishes that meet ROHS compliance include gold, electroless nickel, stainless steel, black zinc nickel, our new AP-93 plating , and more.
Accessories and Custom Options	We carry a large selection of Accessories and Custom Options for our entire catalog of circular connectors including 38999 integral accessory features, backshells, strain reliefs, caps, and dummy receptacles.

38999 Plus Offers Endless Options

Amphenol doesn't just offer connectors within standard MIL-SPEC boundaries; customization beyond MIL-SPEC standards to craft any interconnect solution to meet your unique needs is available through our [38999 Plus](#) catalog. Whether it's power connectors, signal connectors, or high-speed connectors, 38999 Plus presents a massive inventory of MIL-SPEC styles and options to overcome any interconnect challenges.



Applications

- Military Aircraft
- Commercial Aircraft
- Naval Surface Ships
- Submarines
- Ground Vehicles
- Missile Systems
- Unmanned Vehicles
- Electric Military Vehicles

- Satellites
- Spacecraft
- Avionics Systems
- In-Flight Entertainment Systems
- Landing Systems
- Environmental Control Systems
- Fuel Management Systems
- Refueling Systems
- Power Distribution Systems
- Aircraft Braking Systems
- Communication Systems
- Cabin and Exterior Lighting
- Battery Management Systems

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BLOGS

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[The Military and Aerospace Nervous System Runs on Fiber Optics](#)

[Amphenol Connector Basics Terminology Guide](#)

[Amphenol Connectors Cross Reference Guide](#)

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