



MICROMINIATURE SOLUTIONS

The last few decades in military and aerospace engineering have seen clearances and pitches become smaller, tighter, and lighter as manufacturers opt for smaller, more compact platforms to preserve size and weight. However, performance must remain the same or even exceed what came before it.

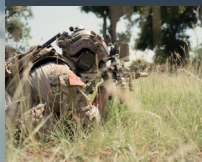
In response to this urgent need for compact and lightweight yet robust, high performance military and aerospace connectors, Amphenol developed a complete family of ruggedized Micro-Miniature Circular Connectors to meet the needs of modern harsh environment applications.



APPLICATIONS

Amphenol Microminiature Solutions excel in a range of harsh environment applications, including:

Soldier-Worn Gear



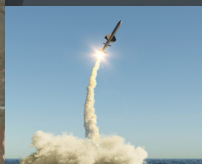
Our ultra-compact microminiature connectors support advanced wearable electronics with secure, lightweight connections.

Military Aircraft



Reliable in-flight performance under extreme vibration and temperature for avionics, controls, and power systems.

Missile Systems



Withstands shock, EMI, and environmental exposure for mission-critical guidance and targeting interfaces.

Ground Vehicles



Ruggedized for durability in harsh terrain for dependable data and power delivery across ground vehicle platforms.

Amphenol
NEXUS
Technologies

RANGER

Rugged, high-performance microminiature interconnect available in standard and high-density configurations.



Ranger is the newest addition to the Amphenol Nexus line of connectors.

With in-house capabilities and in-depth knowledge of the industry, we've developed a solution that is both high-performing and reliable.

Ranger is available in both standard and high-density variations.

- Choose between High Density Ranger and Standard Ranger variants
- Used in multiple sectors – Military and Defense, Telecommunications, Commercial Aviation, etc.
- High-performing and reliable performance
- Excellent resistance to shock, vibration, and temperature extremes
- Compatible with different systems and equipment

Contact:
RANGER@NEXUS.com
nexus.com

Amphenol

Aerospace

SERIES FIVE

The next evolution of military circular connectors, lighter and smaller than MTL-DTL-3899.



An innovation of MIL-DTL-38999 Series III that's Up to 20% smaller and 50% lighter than its D38999 Series III counterpart. Available in multiple configurations and with higher voltage capabilities.

- 38999-Qualified Insulator and EMI Spring
- No Dielectric Bond Joint
- Triple Wire Seal
- AS39029-Qualified Gold-Plated Contacts
- Full Metal Clip Contact Retention
- Standard Accessory Thread
- Radial Interfacial Seal
- "Diamond-Grip" Nut Design
- Scoop Proof
- No-Mess Dry Film Thread Lubricant

Contact:

Amphenol Aerospace Tech Support
1-800-678-0141
aaotech@amphenol-aao.com
amphenol-aerospace.com

Amphenol Pcd

Interconnect & Cable Solutions

TERRAPIN

Microminiature series designed to enable soldier-worn communications in harsh environments.



Intended for harsh environment applications and used extensively in soldier communications, Amphenol Terrapin is a miniature series of circular push-pull connectors.

- Rugged shell design ensures durability in harsh environments
- Superior EMC performance and environmental sealing to IP68
- RoHS-compliant black-silver plating is low-luster and corrosion resistant
- Resilient in severe battlefield conditions
- Optional locking mechanism for added security
- Available in multiple shell sizes with up to 37 contacts

Contact:

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Amphenol

Aerospace

2M MICROMINIATURE

Series of compact, high-performance circular connectors specially designed to address SWaP needs.



The 2M Series offers the unwavering performance and reliability of Amphenol's D38999 series in a smaller, lighter package that is ruggedized for harsh environments and optimized for space.

- Up to 71% lighter and 52% smaller than MIL-DTL-38999 connectors
- Supports up to 130 contacts, providing 60% more contact density

Coupling options include:

- 2M801: Dual-Start ACME Thread
- 2M803: 1/4 Turn Bayonet
- 2M804: Push-Pull Quick-Disconnect
- 2M805: Tri-Start ACME Thread

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