

Cinch: Space-based Connectivity Solutions



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Although military and aviation equipment can face excessive earthly temperatures and pressures, systems destined for sites above the atmosphere can encounter far harsher conditions. Once freed from our planet's protective atmosphere, equipment and accessories face extremes full-on—blistering radiation when exposed to the sun and subzero temperatures away from it. Because equipment destined for space has almost no chance for repair, these failures can ruin missions, high-priced equipment, and maybe cost lives. Cinch connectors are designed to handle these extraterrestrial extremes.



Trompeter™ Space Rated Connectors

Ideal connectors for demanding and ultra-volatile conditions, such as those in space mission applications, including communications and navigation satellites, launch vehicles, human and cargo spacecraft, and deep-space probes.



COMPLIANT: Space-grade threaded ring bayonet (TRB) and threaded triaxial (TRT) miniature connectors and tip-ring-sleeve (TRS) and threaded miniature (TTM) subminiature connectors meet or exceed NASA outgassing and MIL-STD-1553B standards.

ROBUST: Withstands harsh environments, enabling robust signal transmission, minimizing signal loss, and offering strong electromagnetic and radio frequency interference protection.

STABLE: Under heat and pressure, just 1% total mass loss and 0.1% collected volatile condensable materials (CVCM).

TESTED: All parts undergo stringent visual and mechanical standards testing.

DOMESTIC SUPPLY: Made in the US.



Dura-Con™ Space Screened Micro-Ds

M83513 style space-screened and low-outgassing micro-D connectors provide an off-the-shelf option for surpassing NASA's EEE-INST-002 screening requirements, and are designed for aerospace, defense, and space applications.



DURABLE: Twist-pin design offers seven durable contact points and maximizes reliability for applications requiring minimized weight and space.

SMART COMPOSITION: Nickel-plated shells deter corrosion and high-performance ethylene tetrafluoroethylene-insulated wires resist abrasion to deliver high dielectric strength.

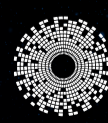
INTELLIGENT FEATURES: This series' printed circuit board-mounted connectors have a raised floor to improve post-solder cleaning and avoid short circuits.

CONSISTENT PERFORMANCE: The series' micro-D connectors are designed from materials that exceed the low-outgassing requirements of <1% total mass loss and <0.1% CVCM, which is required for low-Earth orbit applications.

[Learn More About Cinch Solutions](#)

For more than six decades, Cinch has exceeded the demanding requirements of space exploration, including GPS satellites, the Emirates Mars Mission, and numerous NASA-approved missions. We pride ourselves on customer service and delivering reliable solutions for data, signal, RF, fiber and combination connectors, cables, and assemblies.

Powell is a proud distributor of Cinch connectivity solutions.



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