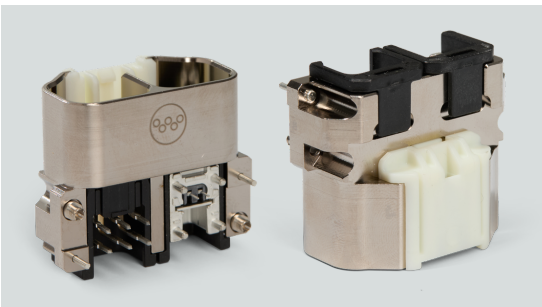
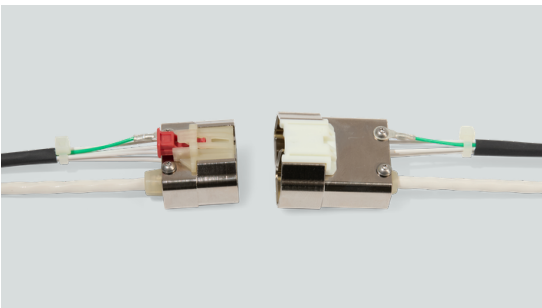
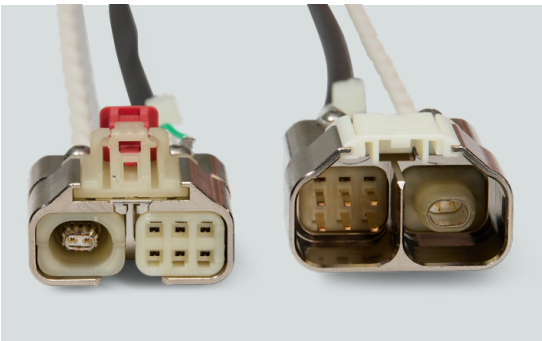


Modulus™ Connectors

Modulus™ is a ruggedized, modular connector platform designed for high-speed Single Pair Ethernet (SPE) and modular power. Created with an automotive mindset, it offers aerospace-grade quality at a price point optimized for cost, up to 30% savings through modularity, assembly that is adaptable for automation, and flexibility in configuration. Modulus was designed for applications where space, weight, performance, and reliability are important, including aerospace, industrial, systems and robotics, avionics, and smart platform.



KEY FEATURES & BENEFITS

- Up to 30% cost savings through modularity
- Automation-capable design reduces assembly time and labor
- Multiple secondary locking features ensure secure, repeatable connections
- High performance SPE (H-MTD) up to 10Gbps
- Balanced data + power options for mixed-signal architectures

APPLICATIONS

- LEO satellites
- Control systems
- Launch vehicle systems
- UAV/Drones
- Vehicle control systems
- Robotics

PRODUCT SPECIFICATIONS

Environmental Properties (Per MIL-DTL- 83513H)

Operating Temperature	-55°C to +175°C
Outgassing	Outgassing per ASTM E595 (TBD)

Mechanical Properties

Keying	Independent of housing (Z, A, B, C, D)
Mating	75N maximum mating force for 4 position housing
Vibration	EIA-364-28, condition IV (vibration) and EIA-364-27, condition E (shock)
Shell	Aluminum – Nickel and Black Zinc Nickel plating options
Assembly	Toolless – CPA/TPA
?	Blindmate Capable, Scoop Proof/Ball Test, Clip Slot compatible

Electrical Properties

Data Connectivity	IEEE 1000Base-T1 – Fully shielded (H-MTD) (10Gbps max speed)
Data Channel Length	Up to 40M
Operating Wavelengths	120V AC/DC @ 20 amps (CTS modules) creepage and clearance optimized
Resistance	30mΩ shell to shell Resistance
Mating Cycles	Up to 50

HOW TO ORDER

Modulus Kit Engineering Number (234 Series)

