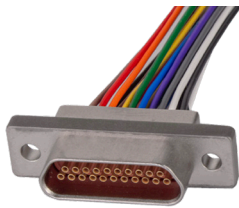


Overview

Cinch brings 60+ years of space-proven connectivity to meet the pace of modern space development. Our Space-Grade portfolio spans NASA TRL-rated qualified parts to commercial off-the-shelf options, giving engineers the flexibility to move fast without sacrificing reliability.

Micro-D Connectors



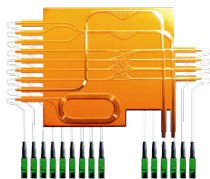
- Plugs and sockets in the following positions: 9, 15, 21, 25, 31, 37, 51, and 100
- 7-point twist pin contacts and machined sockets for durability
- NASA EEE-INST-002 Level 2 screened on select models
- Meets NASA outgassing requirements per ASTM E595 (<1.0 % TML and <0.1 % CVCM)
- Operating temperature range -55 to +135°C

MD801 Circular Connectors



- Micro-miniature environmentally sealed circular connectors with dual-start ACME thread for protection against cross mating and vibration
- Built on the proven MIL-DTL-38999 platform
- Multiple insert arrangement configurations and shell sizes 5~13 available
- Can be customized to meet the specific material, outgassing, and environmental requirements of space applications

Fiber Flex Optical Circuits



- Eliminates complex fiber routing on host card PCBA (all routing and management functions are embedded in the flex circuit)
- Supports singlemode, multimode & specialty fibers (100/140 μm , rad-hard, bend-insensitive)
- 250 μm buffered standard core size, 9, 50, or 62.5 μm
- Durable and reliable construction for use in demanding environments
- Point-to-point or complex routing

Stacking & Compression Solutions



- Solderless connection, multiple points of contact
- Stacking connectors for connecting IC-to-PCB, PCB-to-PCB, Flex-to-PCB, Component-to-PCB
- Profile thickness from 0.020" to 1.0"
- Superior combination of small size, low inductance and exceptional resistance to shock, vibration and thermal cycling
- Hex and square array grids with a min. of 1.0 mm
- Temperature range -200 to +200°C

Space Rated RF Interconnects



SMA Attenuators

- Qualification & screening guided by MIL-DTL-3933 Level T
- Meets NASA outgassing requirements per ASTM E595 (<1.0 % TML and <0.1 % CVCM)
- Operating frequency DC~18 GHz
- Custom dB values from 0~20 dB available
- Operating temperature range -55 to +125°C
- Passivated stainless steel body, beryllium contacts



Connectors

- Space rated subminiature / miniature bayonet or threaded connectors (TRB, TRS, TRT, TTM Series)
- Mil-PRF-49142 Qualified Parts List (QPL)
- Meets NASA outgassing requirements per ASTM E595 (<1.0 % TML and <0.1 % CVCM)
- Insulation resistance min. 5000 mΩ
- Multiple configurations available including straight or right-angle orientation, cable or PCB mount, and crimp or solder termination



Cable Assemblies

- High performance HP160S / HP190S cables with solid center conductor & FEP jacket
- Passivated stainless steel M39012 compliant interface
- Meets NASA outgassing requirements per ASTM E595 (<1.0 % TML and <0.1 % CVCM)
- Frequency up to 40 GHz
- Operating temperature range -55 to +145°C
- Gold-plated beryllium copper contacts

Space Ready Applications



Satellites LEO

- Earth Observation
- Earth Sensing
- Navigation Systems
- Space Cubes
- Space Telescopes
- Surveillance



Satellites GEO / MEO

- Broadband
- Meteorology
- Navigation
- Radio / TV Networks



Launchers

- Attitude Correction Modules
- Central Units
- Command Memory Boxes
- Sensors



Ground Systems

- Docking Systems
- Ground Stations
- Mars Rovers
- Mobility