



### Microminiature D-Shaped Connectors (Micro-D)

- Micro-Ds are proven connector for applications where weight and space must be kept to a minimum while maintaining maximum reliability for multiple points of contact
- Twist pin contact design that maintains 7 points of contact between the pin and socket for continuous reliability and maintain a contact pitch of 0.050" (1.27mm)
- Wire terminated sizes range from #24 AWG to #34 AWG
- Stranded wires are available in PTFE and ETFE insulation
- Insulated wire available to MIL-STD-681 in all white, yellow or multiple color options



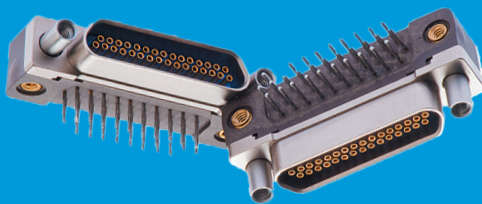
### Commercial

- Similar connector design and materials to meet the requirements of MIL-DTL-83513
- Plugs and sockets in 9, 15, 21, 25, 31, 37, 51 and 100 positions
- Insulated wire, uninsulated wire, solder cup, straight and right-angle PCB terminations available
- Right-angle and straight PCB mounted Micro-Ds have a full washout at the PCB surface for cleaning processes
- Low profile all plastic option is economic and lightweight
- Cadmium and Electroless Nickel plating options available for protective aluminum shells. RoHS compliant and other finishes are also available - please contact Cinch for further information.
- Hardware options include Jackpost, jackscrew (std & low profile), reverse float, float and no hardware. Please consult Cinch for other available options.



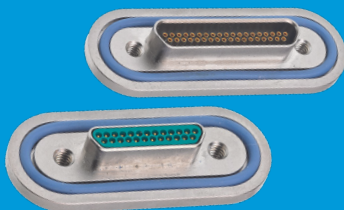
### MIL-DTL-83513

- Product line includes M83513 slash sheets /01 thru /27
- Plugs and sockets in 9, 15, 21, 25, 31, 37, 51 and 100 positions
- Insulated wire, uninsulated wire, solder cup, straight and right-angle PCB terminations available
- Right-angle and straight PCB mounted Micro-Ds have a full washout at the PCB surface for cleaning processes
- Low profile all plastic option is economic and lightweight
- Cadmium and Electroless Nickel plating options available for protective aluminum shells
- M83513/05 jackpost and jackscrew hardware available



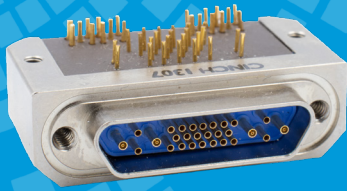
### High Temperature

- Designed for applications that require additional stability at higher temperatures and in high vibrations
- Operating Temperature: -65°F (-55°C) to +347°F (+175°C) for plugs, +392°F (+200°C) for sockets
- Plugs and sockets in 9, 15, 21, 25, 31, 37 and 51 positions
- Insulated wire, uninsulated wire, solder cup, straight and right-angle PCB terminations available



### Hermetic

- Designed for applications where a connector separates two distinct controlled atmospheres
- Hermetic Seal: <1 x 10<sup>-8</sup> cc/sec @ 1 atm He differential
- Withstanding Voltage: 900 VAC RMS@ sea level
- Plugs and sockets in 9, 15, 21, 25, 31, 37 and 51 positions
- Sealed with either Glass, Ceramic or with an Hermetic potting compound dependent on the application and onward processing.
- Insulated wire, uninsulated wire and solder cup terminations available
- Protective Aluminium shell available for welding mount and with compression seal



## Combis (Power, RF & Expanded Beam)

- Designed for applications where a single connector is required to carry low current (3 Amp) signals and higher current (15 Amp) power contacts and/or RF contacts or Expanded Beam (EB) contacts
- Multiple contact arrangements available
- Insulated wire, uninsulated wire and solder cup terminations available
- Protective Aluminium shell with a compression o-ring seal option



## EMI Shielded Assemblies

- Compressible conductive gasket on plugs for 360° EMI protection
- Integrated back shell with channel for metal strap
- Preinstalled EMI braided sleeves and abrasion protection sleeves available
- Options for single pigtails for plug or socket and jumpers using two plugs, two sockets or a plug and socket combination



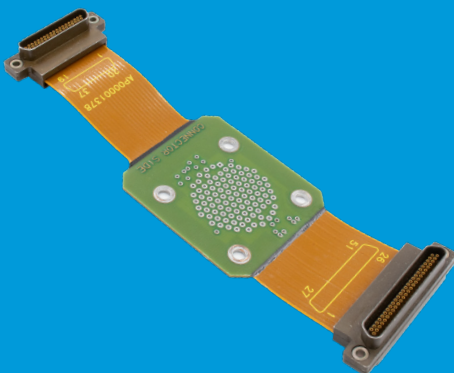
## Backshells

- Aluminum shells that attached to the backside of Micro-D connectors designed for wire strain and EMI protection on wire assemblies
- Straight, 45° and right-angle wire entry options
- Unique split back shells available for installation of fixed wire assemblies ensuring a 360 degree screen
- Multiple wire entries are available sized for maximum number of wires per connector
- Cadmium and Electroless Nickel plating options available for protective aluminum back shells. Consult Cinch for other plating options dependent on application requirements



## MicroEdge

- Designed for quick installation to the edge of a PCB card
- Withstanding voltage: 600 VAC RMS @ sea level
- Coke bottle for PCB edge mounting, claw foot PCB leads, right angle PCB leads, and stranded insulated wire termination options available
- Plugs and sockets in 128 and 184 positions
- Cadmium and electroless nickel plating options available for protective aluminum shells



## Strip Connectors

- Thin and lightweight - designed for extremely space and weight constrained applications
- Withstanding Voltage: 600 VAC RMS @ sea level
- Plugs and sockets in 1 to 60 positions, with the option to be bonded together for dual rows and increased contact count
- Optional polarized with guide pin
- Insulated wire, uninsulated wire and solder cup terminations available



## Custom Designs

- Dura-Con has a long history of design and manufacturing for a variety of applications, integrating into structural components to reduce the space envelope required and providing additional capability such as sealing and shielding/grounding requirements
- Wire assemblies can be prewired and encapsulated directly into the connector per customer wire charts including twisted pairs and shielded cable, over-jacketed, overmoulded, and cable boots, which reduces installation labor and improves quality
- Complete wire harness assembly options available from concept to manufacturing, built and assembled within the application structure