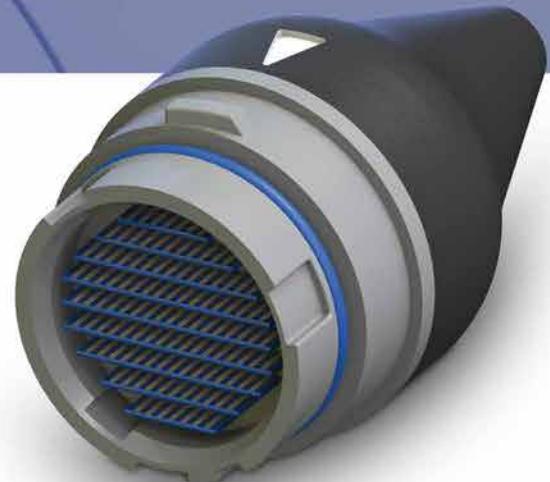




*High-Density Interconnects*  
*Creative Solutions*  
*High-Impact Innovation*

Densyty®

 **Paragon  
Medical**  
AMETEK®



# The DENSITY® interconnect system uses proven card edge technology to maximize contact density, performance and usability.

The need for high contact density in a small form factor is increasing. New innovative medical devices that require high performance interconnects are being developed every day. Paragon Medical has developed high-density interconnect solutions that meet customers' needs and provide those customers with adaptability in an ever-changing market. DENSITY® interconnect systems can be scaled or modified to fit the needs of many applications, and are tested to meet industry standards, providing confidence in the product's connection.

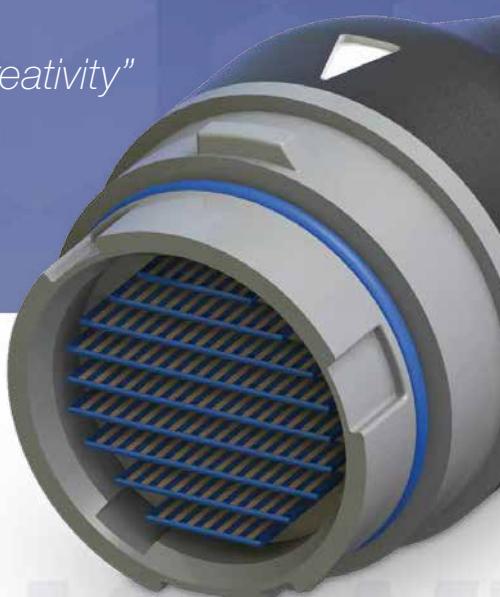
Understanding that one size does not fit all, Paragon Medical can customize many design elements to find an optimal solution for a particular product.

Those elements include:

- Card thickness
- Contact count, spacing, pad dimensions
- Plating materials and thicknesses
- Mating spring finger forces
- Card insert/withdrawal forces
- Termination methods
- Mounting of active and passive components
- Flexible circuits

Paragon Medical's dedicated team of experts looks forward to collaborating on your next interconnect challenge. Contact local Paragon Medical sales representatives for more information and customization requests.

*"A full suite of customizations to enable out of the box creativity"*



CONNECTING WORLD

**Contact Count/Pitch**

Up to 243/1.4mm  
1.0 mm pitch available

**Housing Material**

Ultem, Polycarbonate

**Contact Carrier Material**

Polycarbonate

**Contact Style**

**Plug:** Card edge (rigid PCB)  
**Receptacle:** Spring finger contacts

**Contact Plating**

30  $\mu$ in hard gold

**Contact Resistance**

<100 milliohms mated

**Dielectric Withstand**

$\leq$ 1,200 VDC

**Termination Array**

**Plug:** Solder pad  
**Receptacle:** Solder tail

**Coupling Mechanism**

1/4 turn twist-lock ring system  
Push-pull locking system

**Mating Cycles**

10,000+

**Mounting Style**

Inline cable  
Panel mount (front)

**Sterilization Compatibility**

Autoclave  
Ethylene oxide  
Gamma radiation  
Hydrogen peroxide gas plasma (Sterrad<sup>®</sup>)

**Biocompatibility**

All materials ISO 10993 compliant

**Additional Features Available**

Proprietary keyways  
Touch proof, IEC 61032

*“An optimal but simple solution to address the most demanding challenges”*

WITH CREATIVITY

# Customization

## Locking Feature

90 deg  
45 deg  
30 deg  
"Push-lock" or "auto-lock"



## Inserts and Mating Interface

Card edge  
Card + pin/socket  
Card + pneumatic  
Card + Pogo pin  
Card + shielded contacts



## Mounting

Panel mounting  
In-line cable  
Custom profile



## Strain Reliefs and Clamshells

Paragon Medical is an expert in designing and molding the strain relief or clamshell that users require. Send the requirements to Paragon Medical, and it will create a custom design.

## Markings

Add custom logos and other markings with pad printing, laser marking, or both.

## Flex Circuit/Rigid Board Termination and Component Integration

Create subcomponents to enable automated processes or adapt to preferred termination methods. Paragon Medical can create and integrate components into the DENSITY® platform.

Contact your local Paragon Medical Sales Representative for additional information and customization requests



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