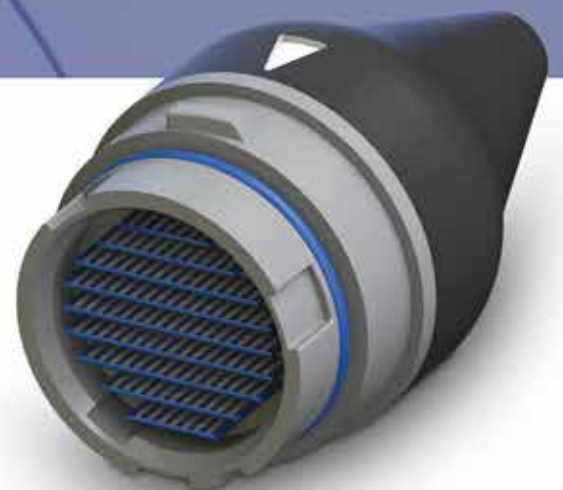




High-Density Interconnects
Creative Solutions
High-Impact Innovation

 **Densy**®

AMETEK®
ENGINEERED MEDICAL
COMPONENTS



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. AMETEK Engineered Medical Components (EMC) 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.

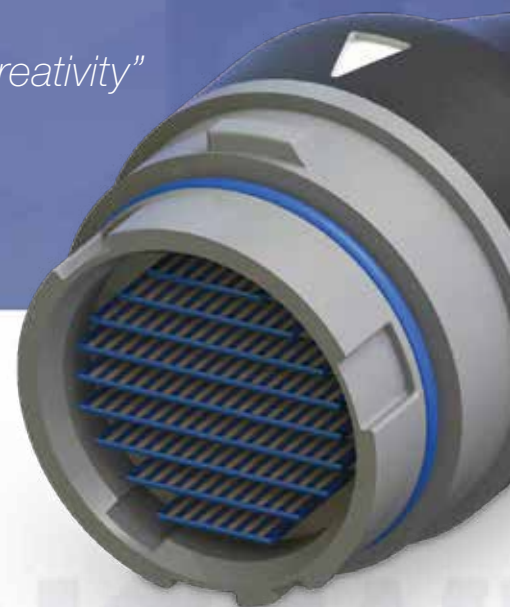
Understanding that one size does not fit all, AMETEK EMC can customize many design elements to find an

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

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

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



CONNECTING WITH

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 µin hard gold

Contact Resistance

<100 milliohms mated

Dielectric Withstand

≤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®)

Biocompatibility

All materials ISO 10993 compliant

Additional Features Available

Proprietary keyways

Touch proof, IEC 61032

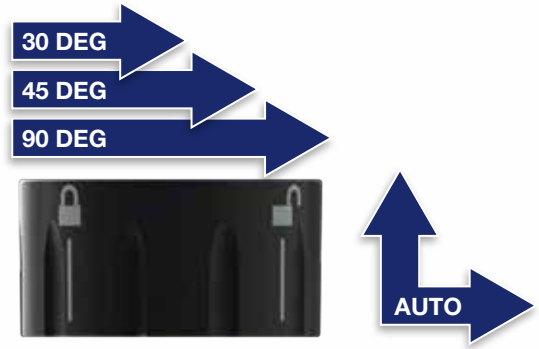
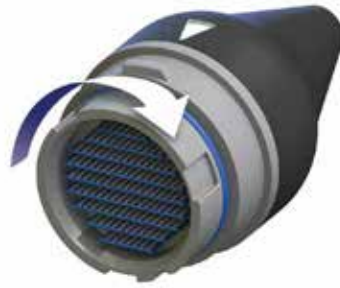
"An optimal but simple solution to address the most demanding challenges"

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

AMETEK EMC is an expert in designing and molding the strain relief or clamshell that users require. Send the requirements to EMC, 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. AMETEK EMC can create and integrate components into the DENSITY® platform.

Contact your local AMETEK EMC Sales Representative for additional information and customization requests



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