

IEH Corporation

- Founded in 1937 by Louis Offerman
- 4th Generation Family run company
- 1950's to 1970's – Manufacturer of CRT sockets for US television industry
- 1970's Original Hyperboloid Licensee
- QPL'd to Mil-DTL-55302
- ISO9001:2008 Certified
- Located in Brooklyn, NY

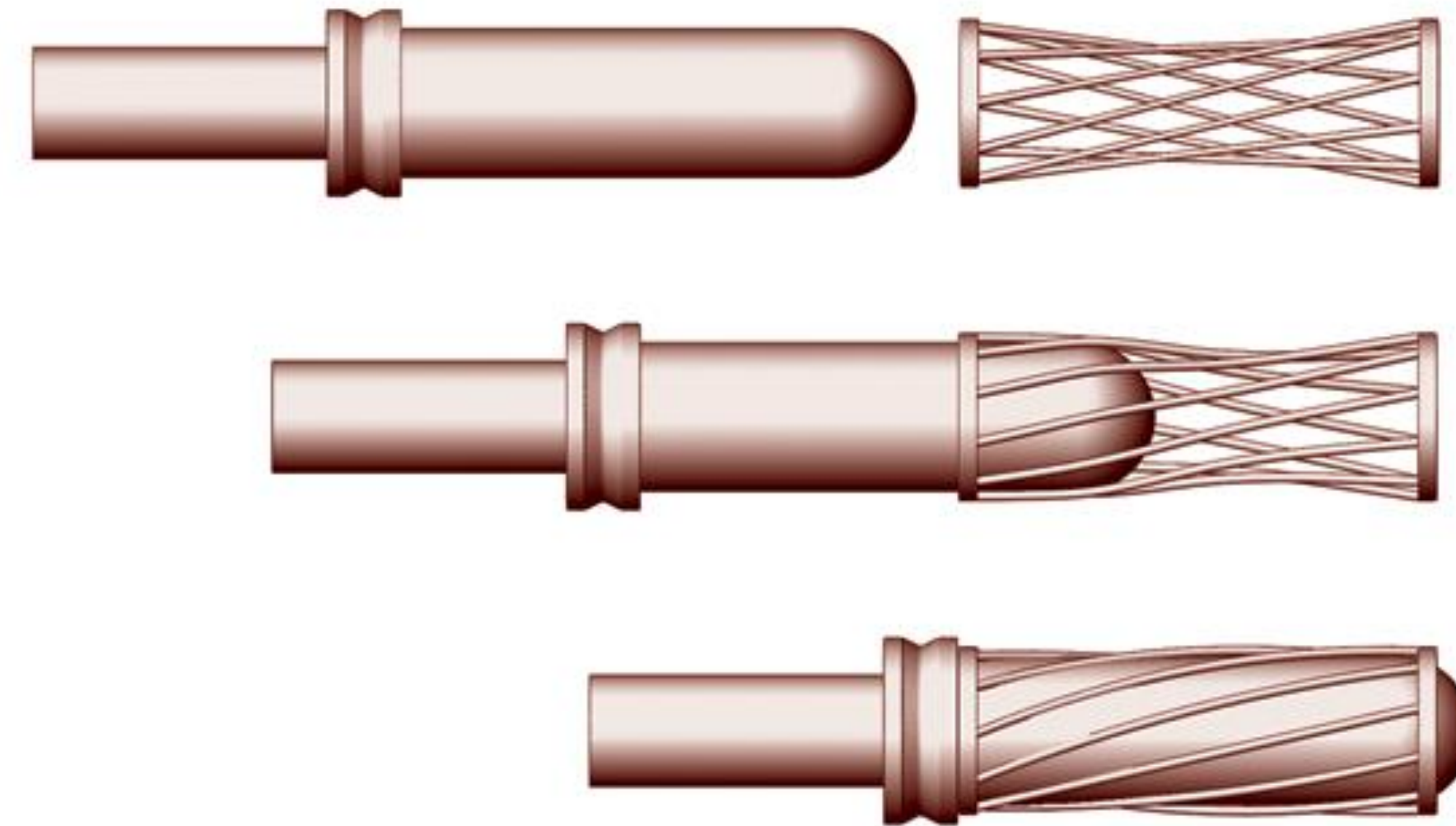


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Hyperboloid Concept

The Hyperboloid-shaped sleeve is formed by straight wires strung at an angle to the longitudinal axis. This geometry provides for a design which has a decreasing circumscribed circle when viewed from the entry



When the pin is inserted into this sleeve, the wires stretch, well within elastic limits, to accommodate it. In doing so, the wires wrap themselves around the pin, providing a number of continuous line contact paths



Hyperboloid Contact Technology



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Feature

Benefit

Low Insertion/Extraction Forces

Wire basket expands to envelop mating pin when inserted.

Less resistance in pin-socket interface, thus less force required to mate and demate, especially in high pin count connectors

Contact Life

Unlike the “plow and scrape” action of common designs, Hyperboloid’s wiping action reduces wear on the contacts surfaces.

Standard contacts are rated to last 500 mating cycles.

Hyperboloid contacts are **rated for 100,000 mating cycles.**

Higher Current Ratings

Hyperboloid wire system envelops mating pin, thus more lines of contact between pin and socket

Greater current-carrying capability, at ambient temperature rise

Impervious to Shock & Vibration

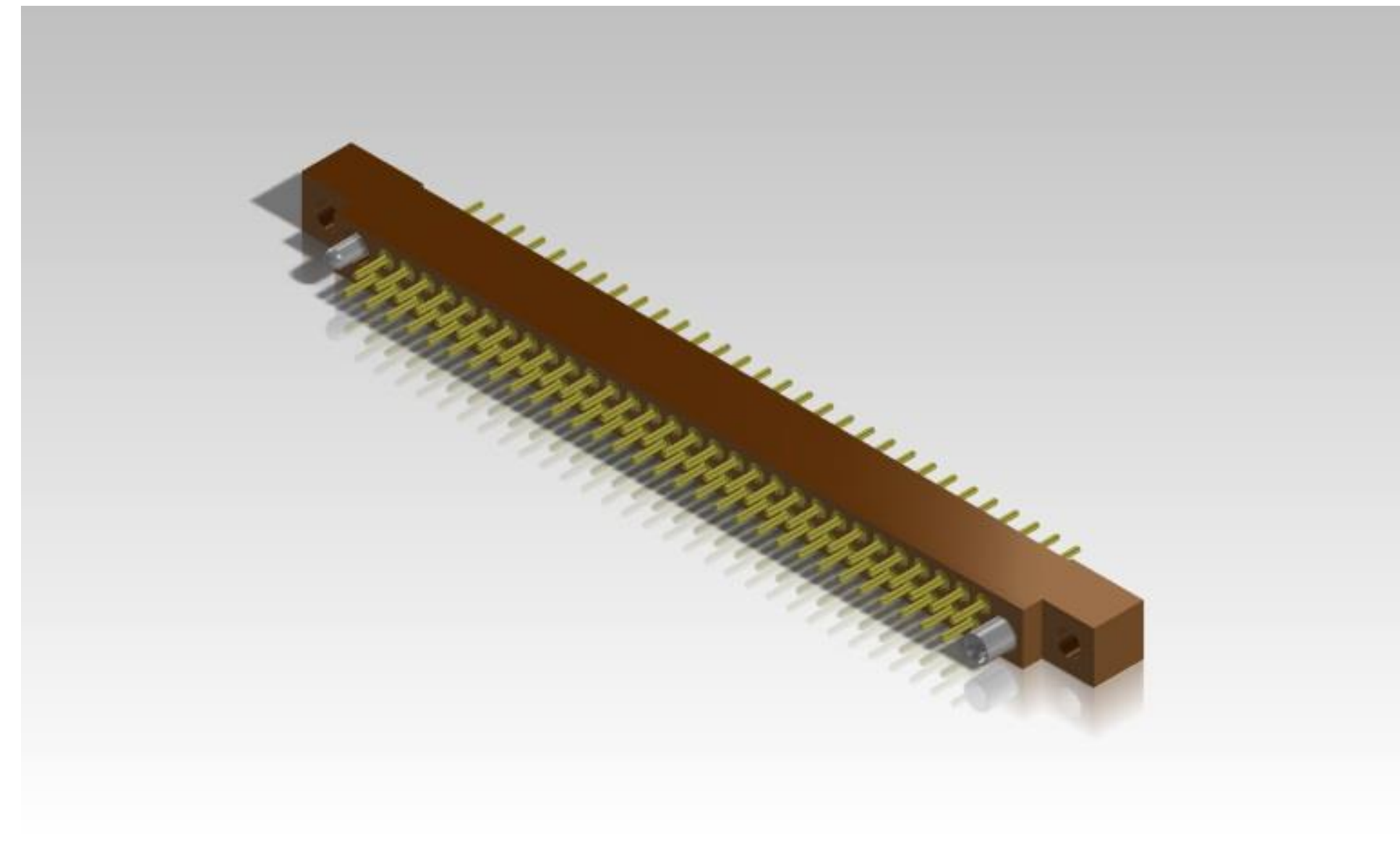
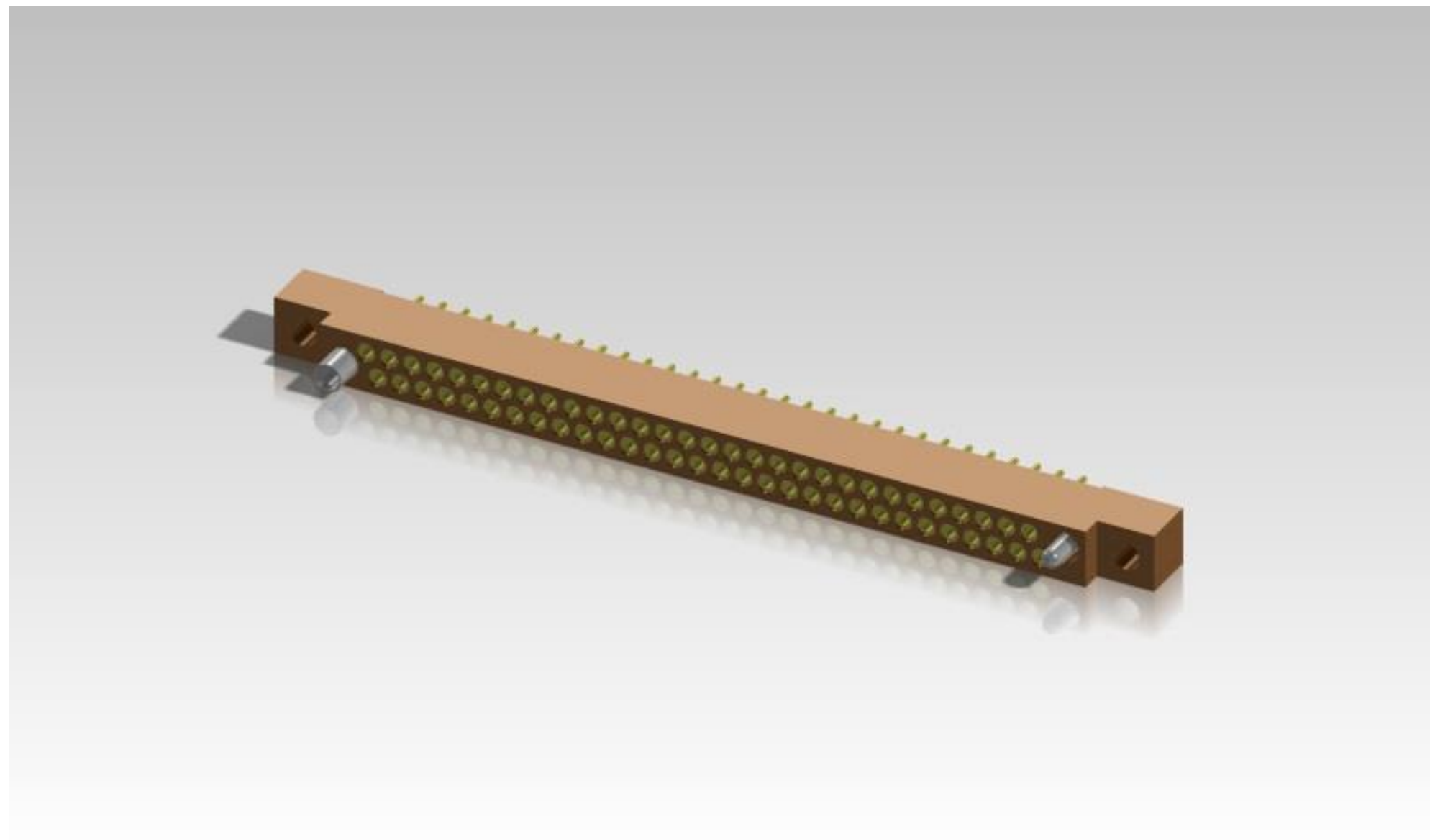
The low mass and resulting low inertia of the wires allows them to follow the most extreme excursions of the pin without loss of contact. Test exceed 300 g’s without discontinuity.

Guaranteed electrical continuity regardless of the direction or intensity of external and internal forces

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PCB Connectors

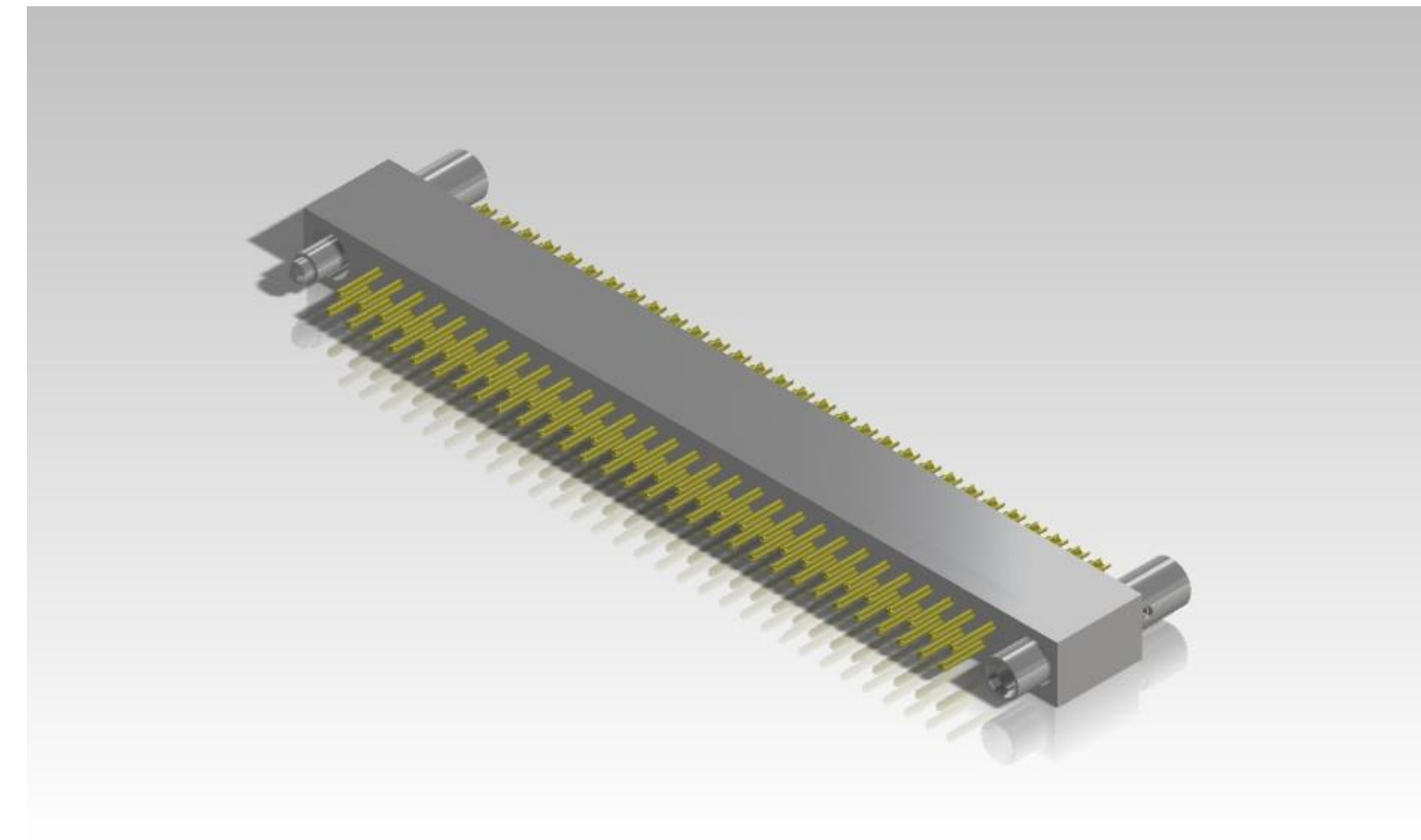
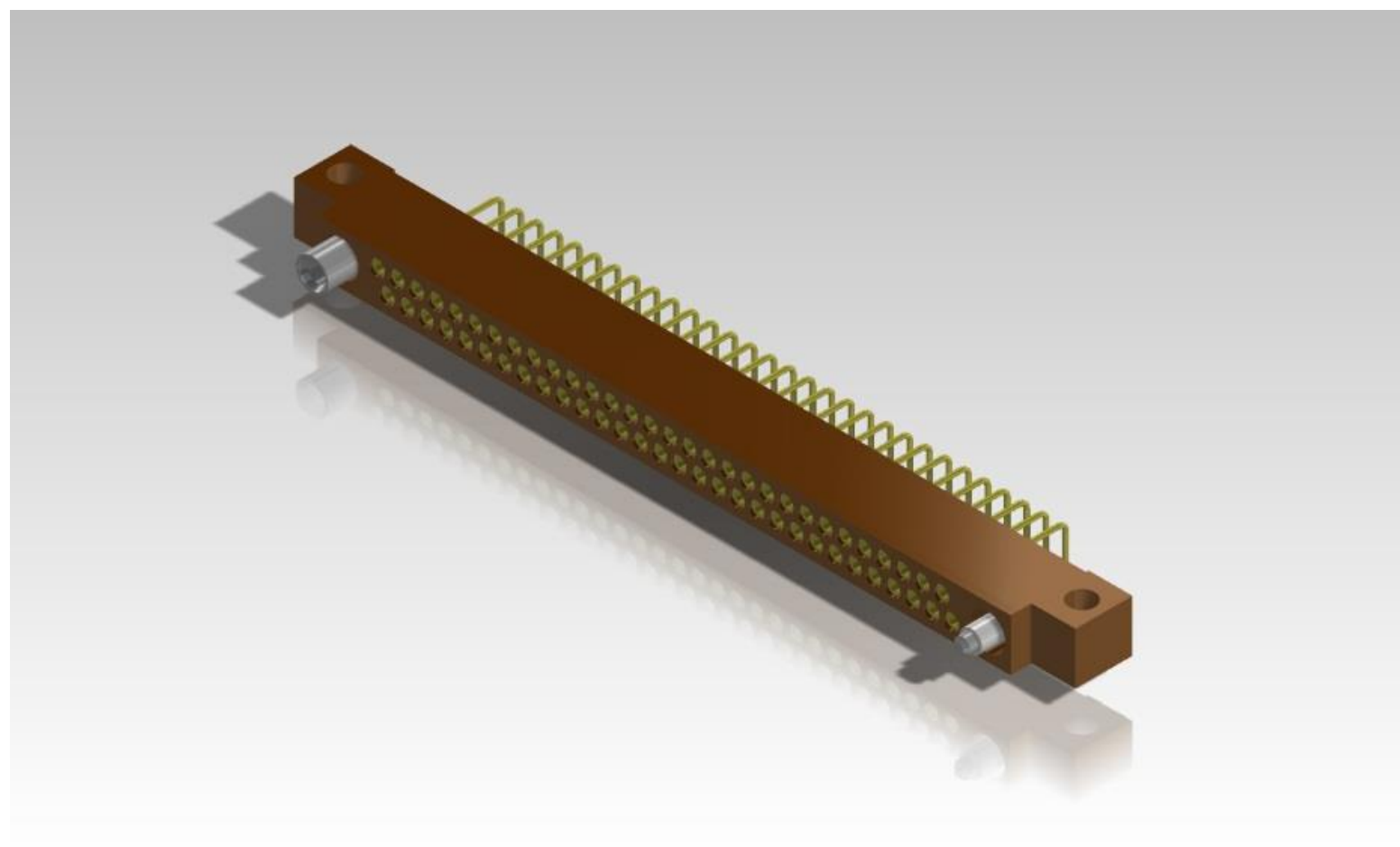
- HGM Series: .100 centers
- M55302 slash sheets /55 - /64



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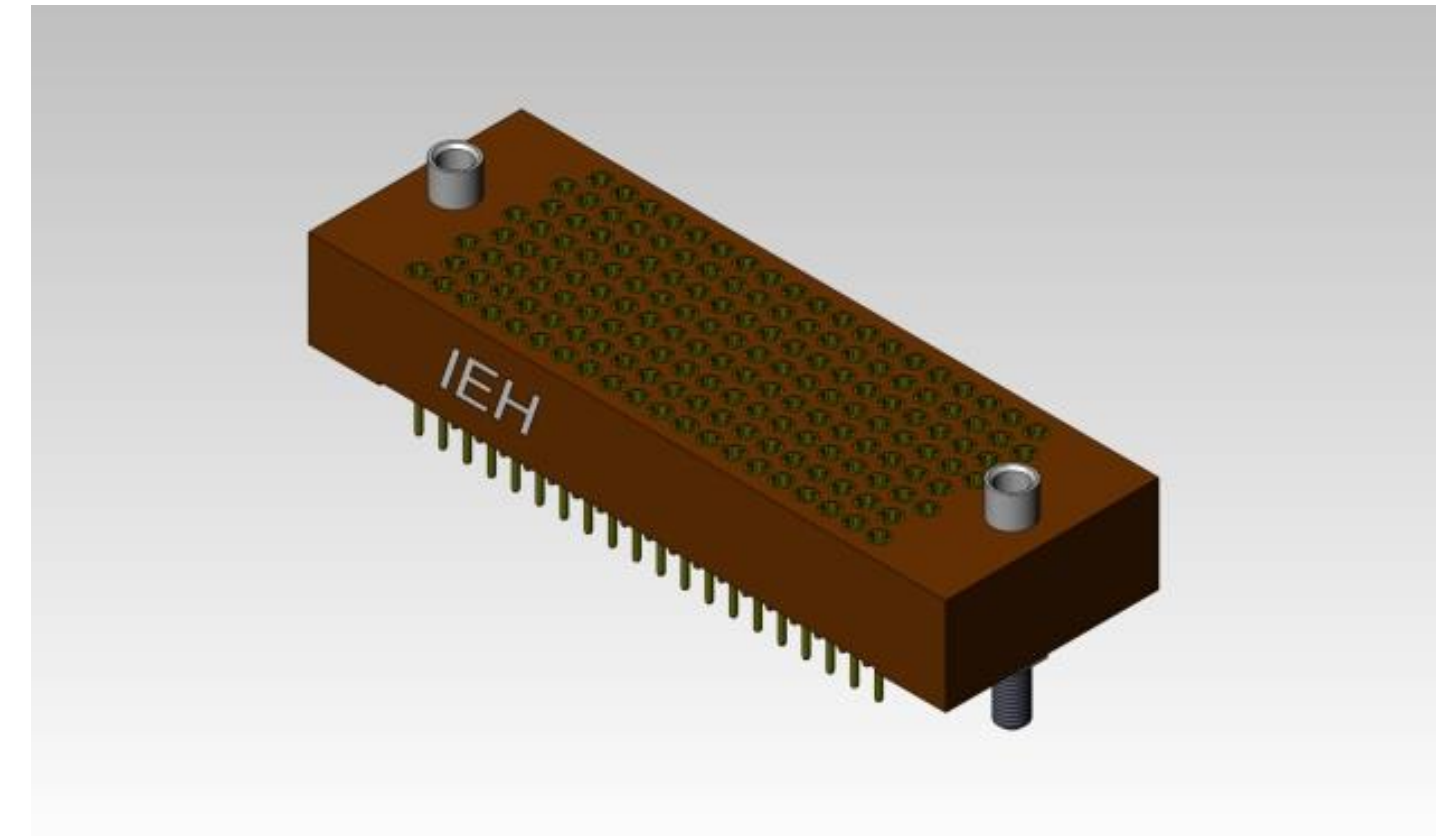
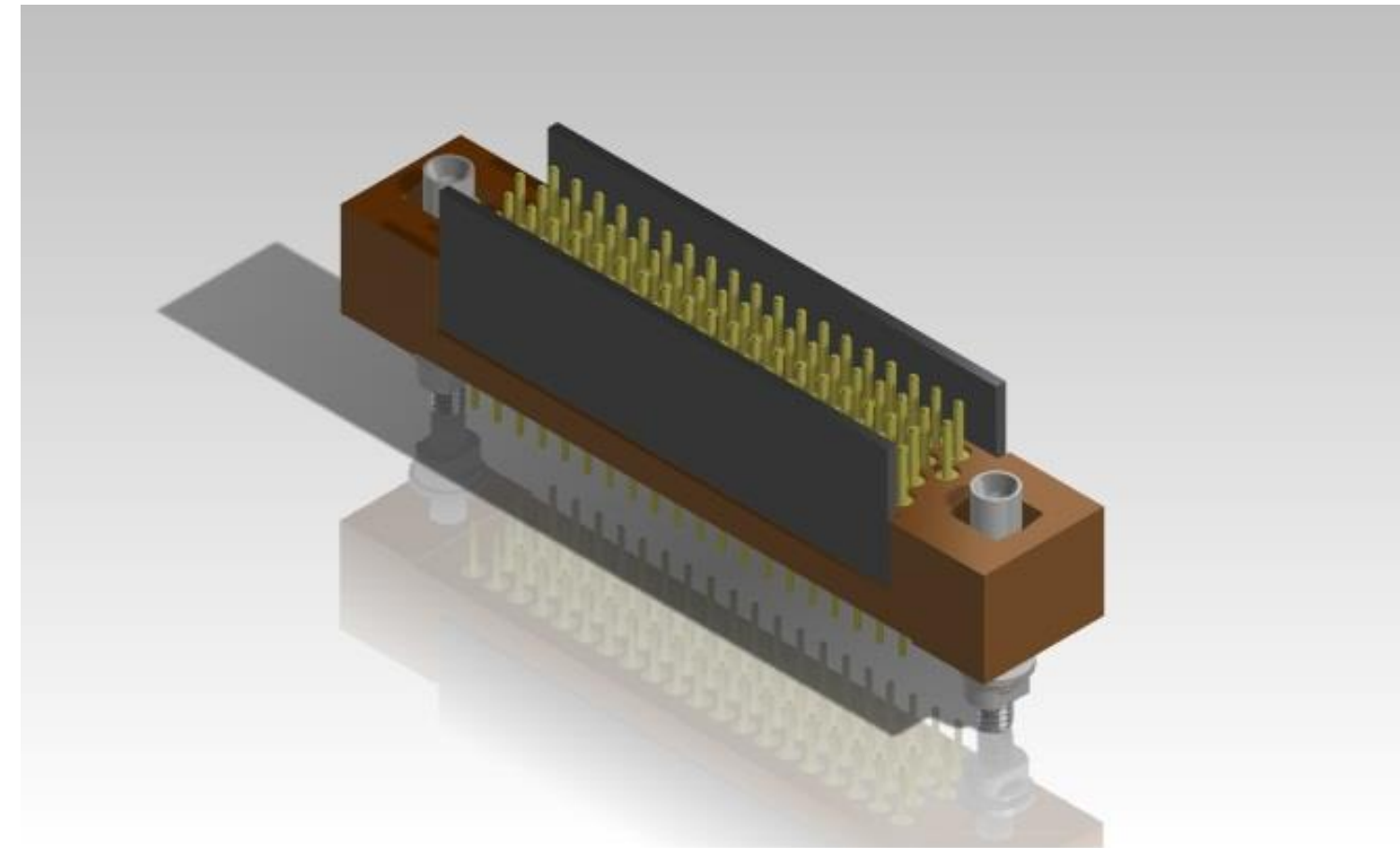
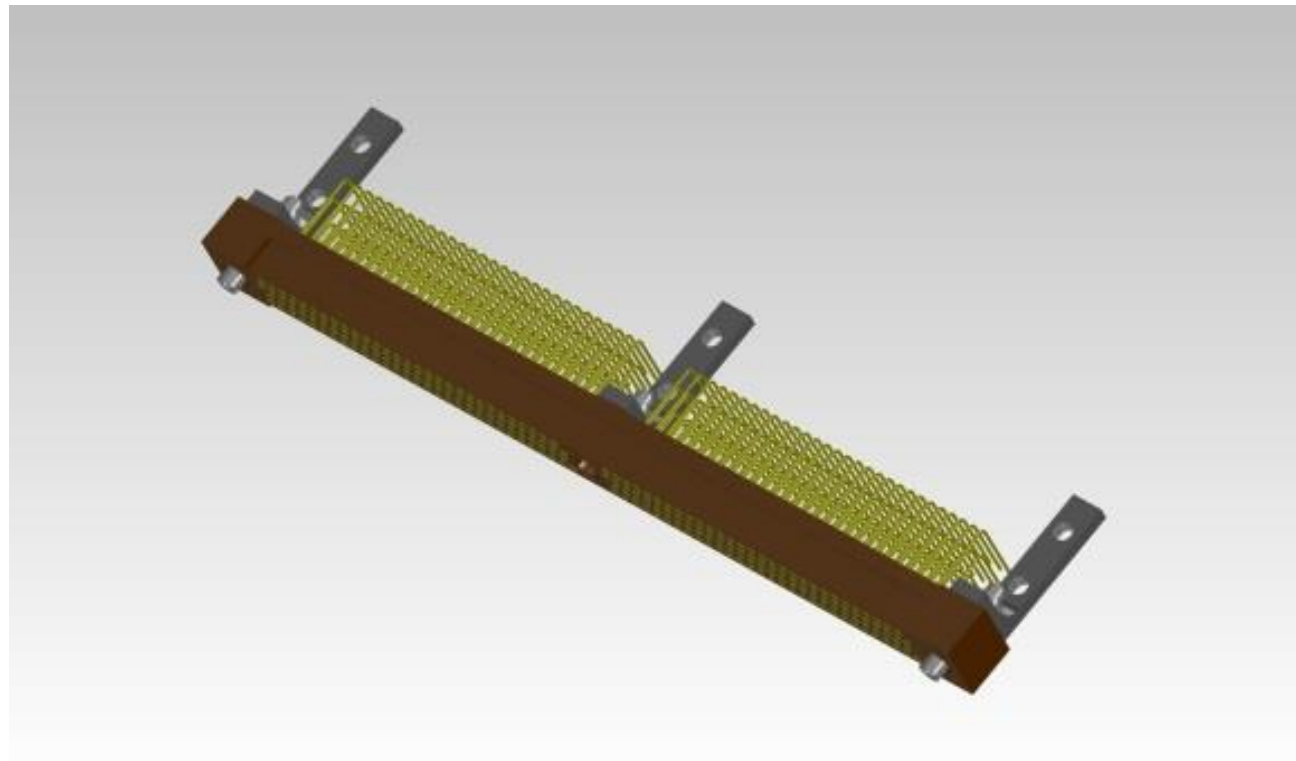
PCB Connectors

- HRM Series .075 centers
- 2 & 3 row
- M55302 slash sheets /190 - /193



PCB Connectors

HMM Series .075 centers, 4, 6 & 8 row



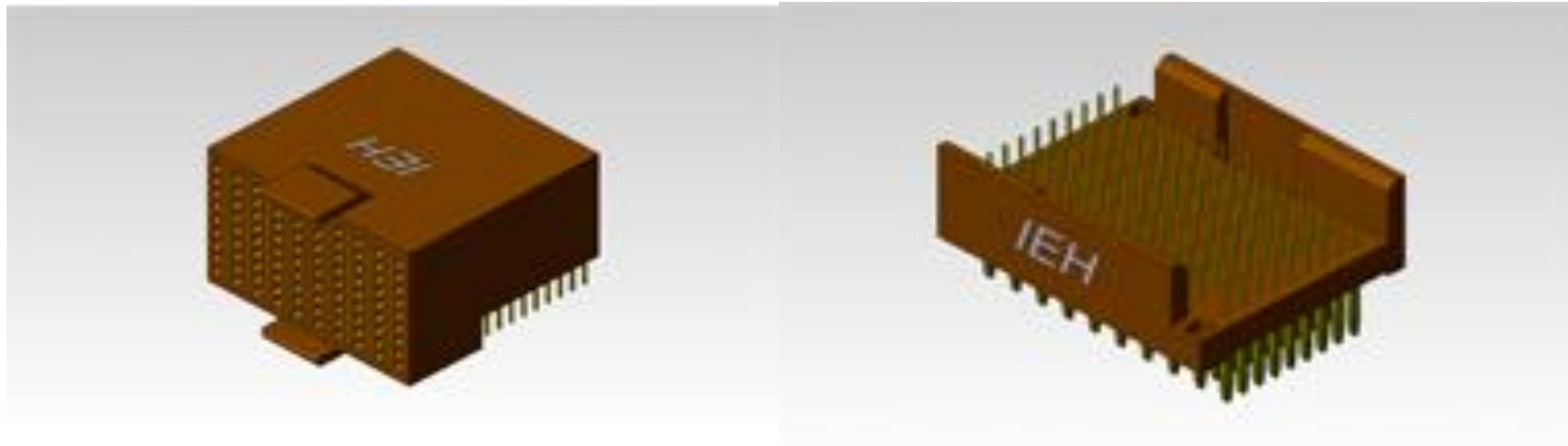
Cable Connectors/Assemblies

- Flex cable
- Solder contacts
- Crimp contacts
- Custom designs



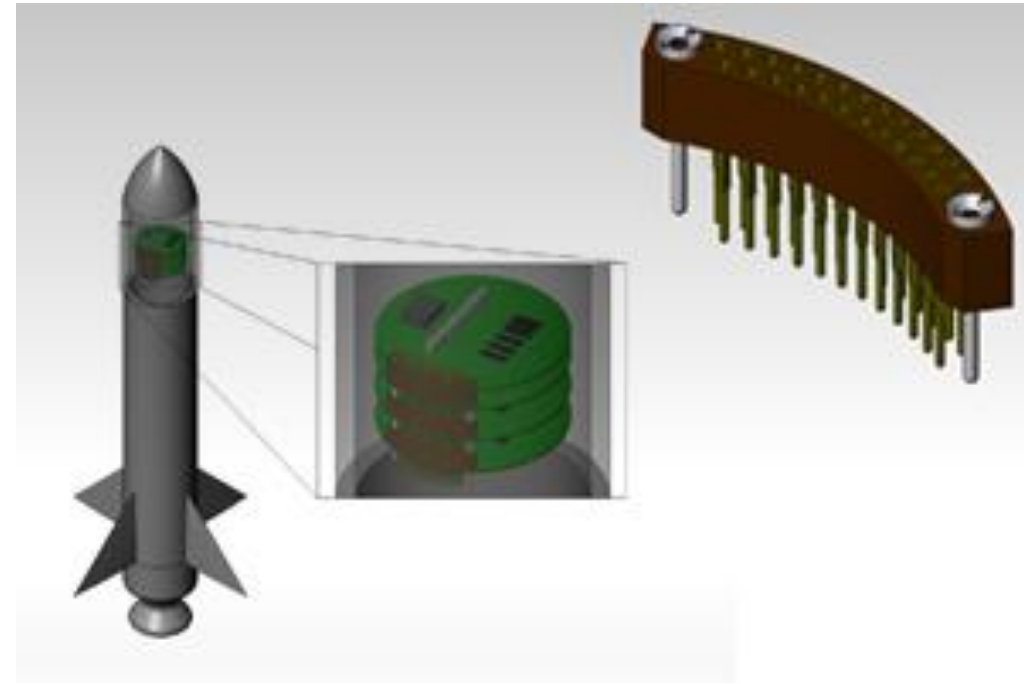
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- HDD Series – high speed back plane connector

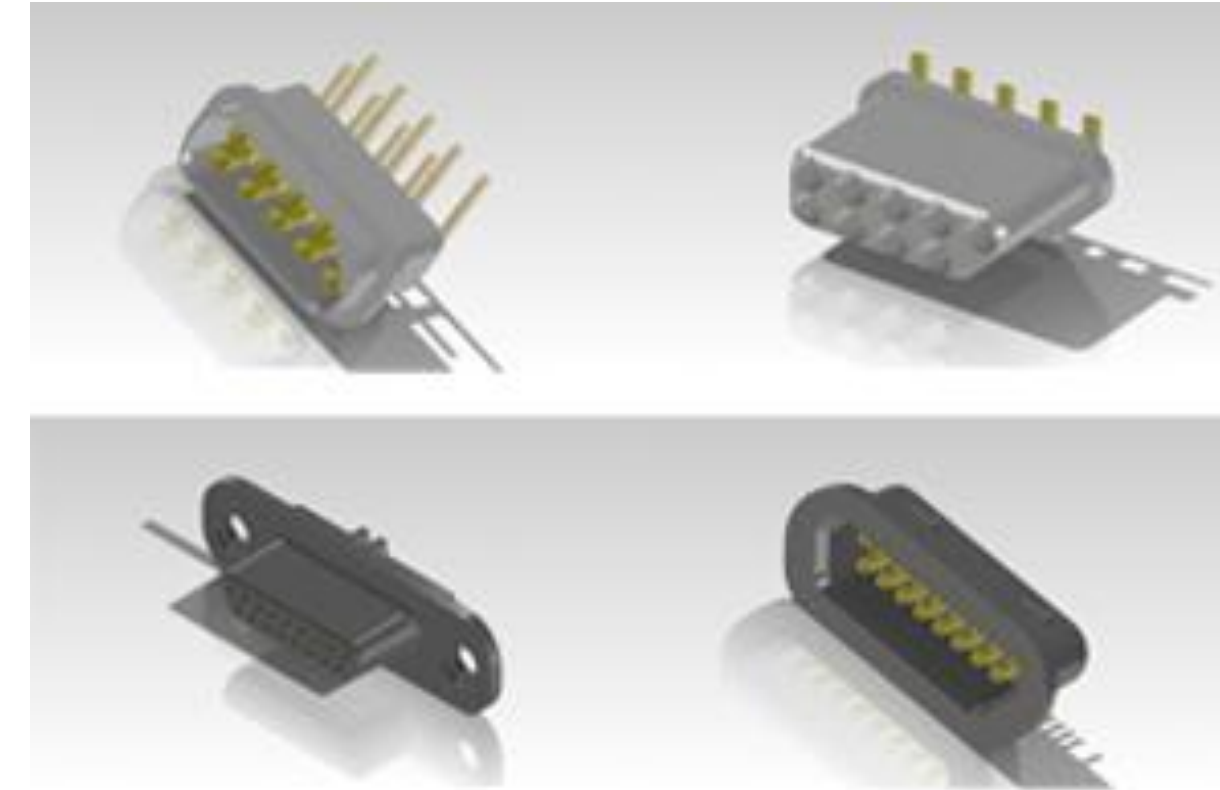
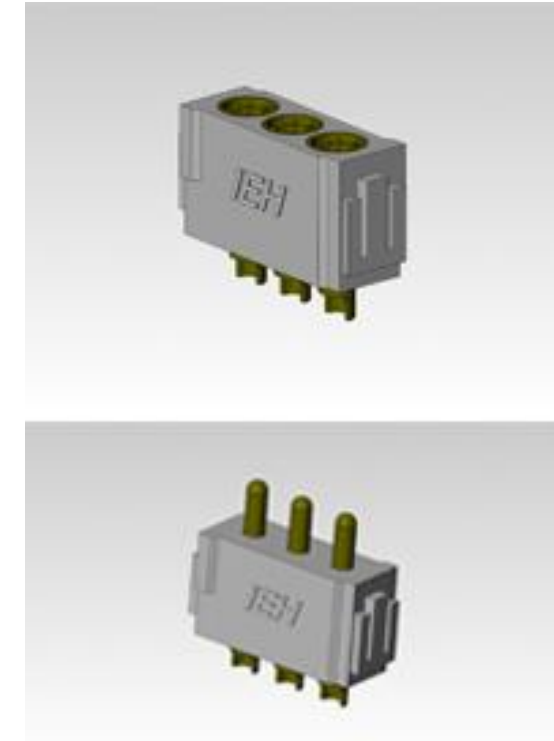


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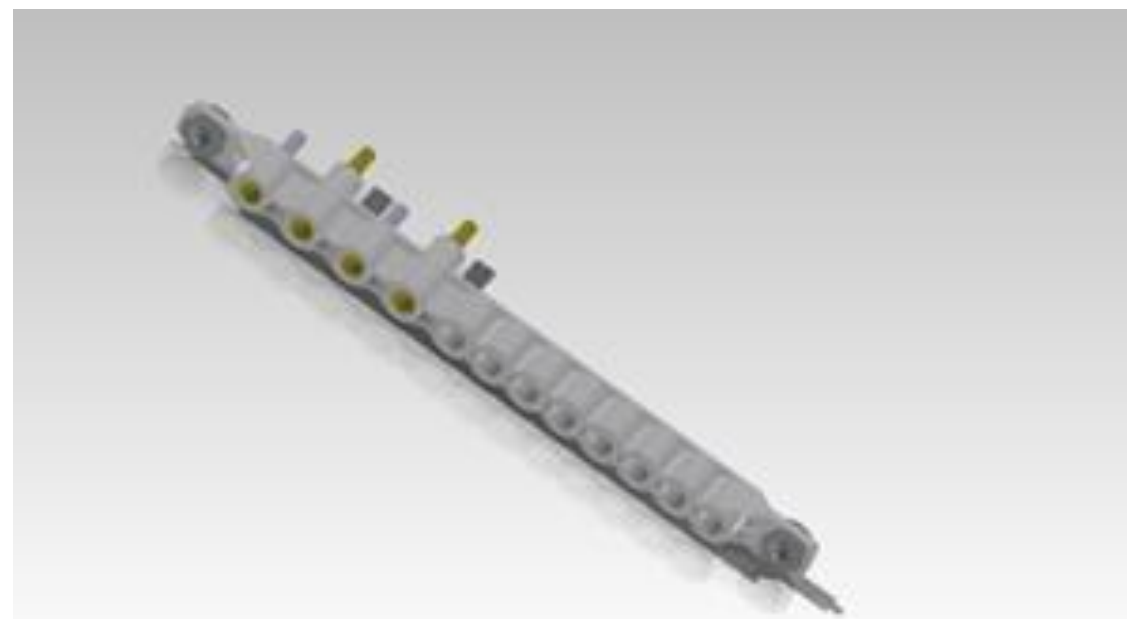
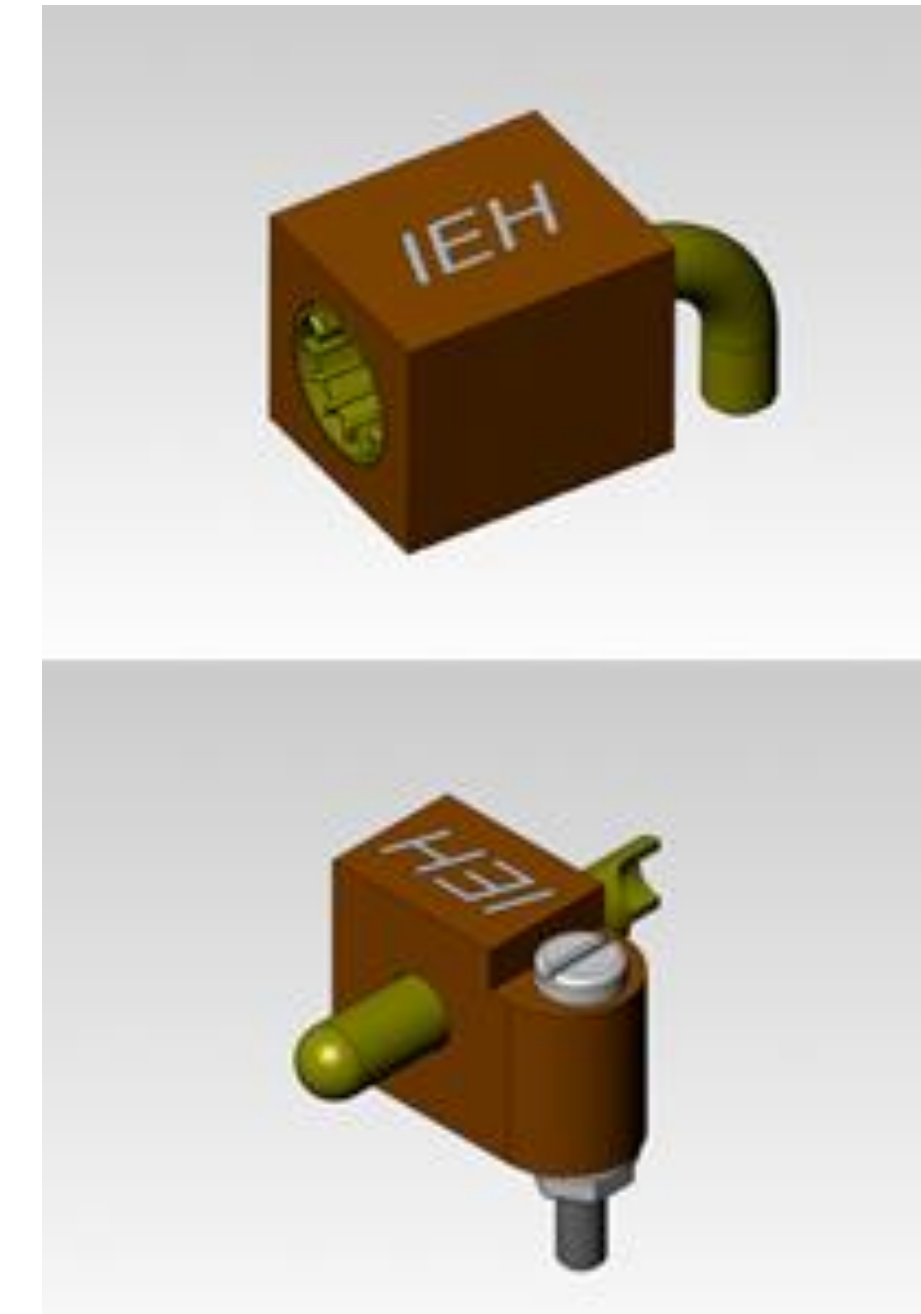
Custom Products



Semi-circular, stacking connectors for parallel boards inside a munitions chamber



Non-Magnetic Power Interconnect



Power connector for Distribution Controller, for Commercial Avionics.



Single-pole connectors for high-power, both airborne and space

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Contacts

- Discrete PCB contacts
- Power contacts
- Test contacts
- Contacts for circular connectors
- Custom Contacts

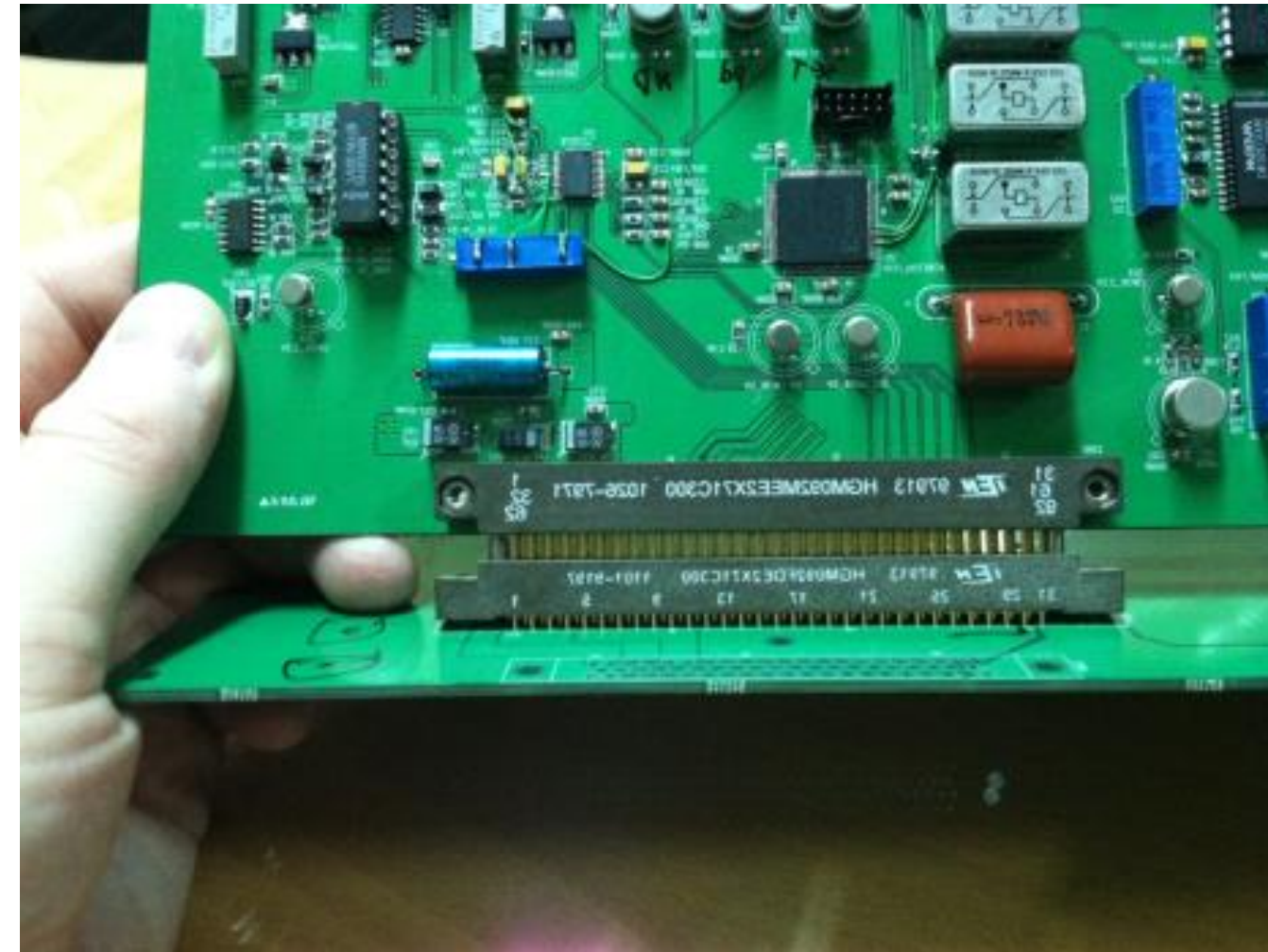


Applications

- Avionics Platforms
- Engine Control Systems
- Missiles and Torpedoes
- Guidance Systems
- Vehicular Electronics
- Satellites
- Rocket Launchers
- Medical Devices
- Industrial and Environmental Controls
- Hand Held devices
- Test Equipment
- Fuel Management Systems
- Military Radios

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Applications



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