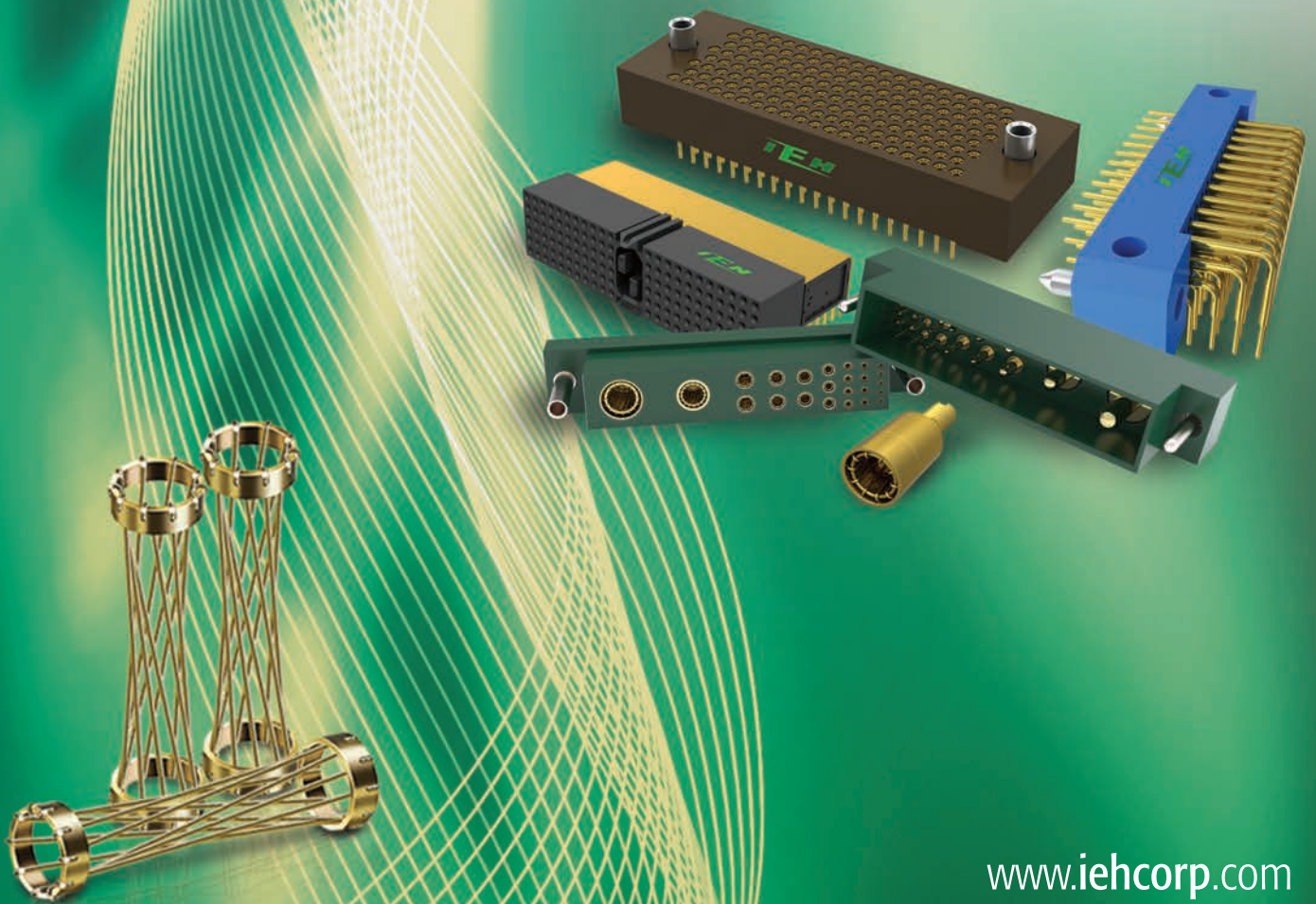




> Hyperboloid Connectors

FOR SUPERIOR PERFORMANCE
IN ALL APPLICATIONS

IEH Corporation ISO 9001:2015



www.iehcorp.com

A Long History of Achievement

Our company history began in New York City in 1941, when Louis Offerman and his two sons, Bernard and Seymour, founded a tool and die manufacturing company to support the war effort during WWII.



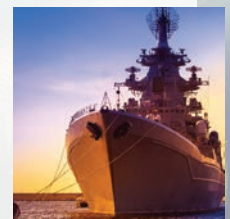
Following the war, we began making transistor and tube sockets for the nascent consumer electronics industry. We transitioned to supplying cathode ray tubes for the US television industry, and by the 1960's we were the largest manufacturer of CRT sockets in the world!

In the late 1960's we bought a license to manufacture Hyperboloid sockets, and began making printed circuit board connectors for the military and aerospace industries, under MIL-DTL-55302. We've been making these connectors and variations of them ever since, and today, we're one of the worldwide leaders in Hyperboloid connectors and contacts.



Four Generations of Family Management

While much has changed over the years, our values and philosophy remain the same. We're still a family-managed business, and we still manufacture the highest quality products for the toughest environments. But most importantly, we remain committed to continuously improving our products and services, and exceeding our customers' expectations, each and every day.



- Hyperboloid Connectors
- PCB Connectors
- Hyperboloid Contacts
- HBH Series
- Hyperkinetic® Connectors
- Custom Solutions
- Flex and Cable Assemblies
- Mini Circular Connector

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Hyperboloid Connectors

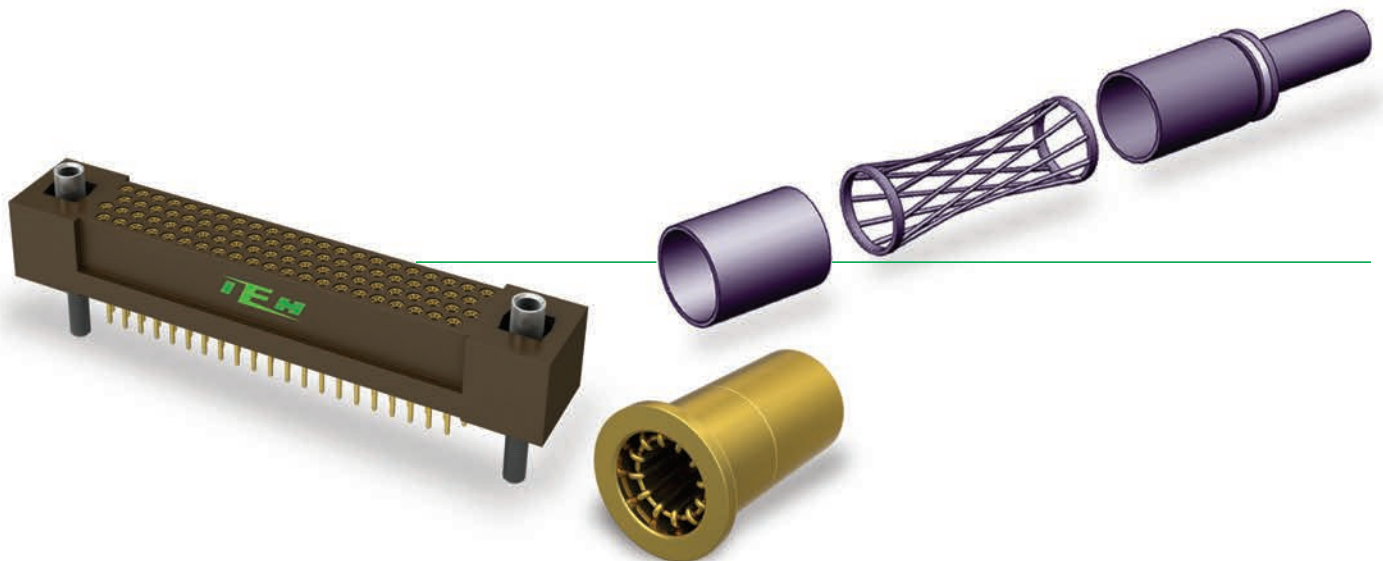
Unmatched Performance for Demanding Environments

In use for over 40 years under the most challenging conditions, Hyperboloid technology has proven itself to be the leading design for integrity and reliability. On avionics platforms, military and commercial aerospace equipment, engine control systems, missiles and torpedoes, vehicular electronics, satellites and rocket launchers, medical devices, industrial and environmental controls, test equipment, PGA sockets, and countless other rugged applications, Hyperboloid has lived up to its promise of the highest reliability connector available.

At IEH Corporation, we design and manufacture Hyperboloid connectors that not only accommodate, but exceed military and aerospace specification standards. Years after inception, our Hyperboloid solutions continue to prove their benefit time and again. Our acclaimed engineers have long provided reliable and innovative Hyperboloid interconnect solutions for defense, commercial, aerospace and medical use.

The key advantages include:

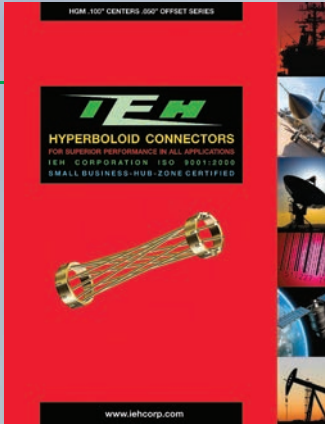
- Impervious to Shock & Vibration
- Improved Current-Carrying Capacity
- Low, Low Contact Resistance
- 100,000+ Cycle Lifespan
- Very Low Insertion Force (VLIF)
- Advanced Design



PCB Connectors

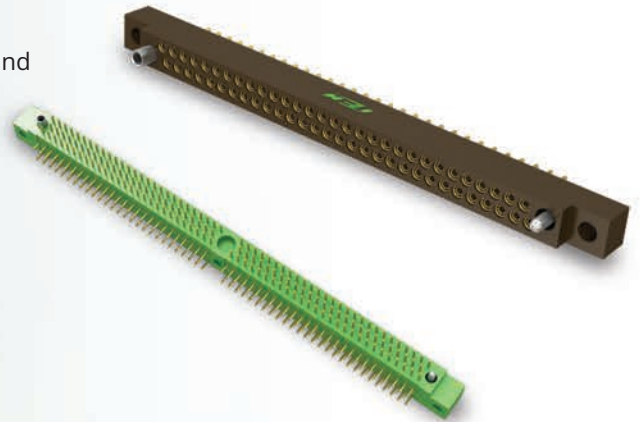
Hyperboloid Technology

Utilized in all our receptacle connectors, this unique design offers superior capability in every critical parameter of connector performance.



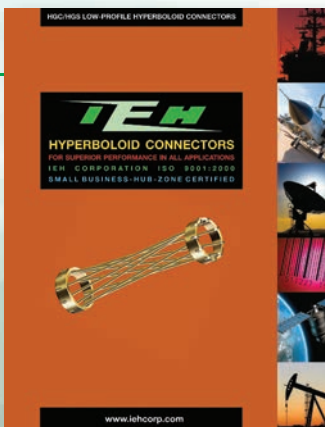
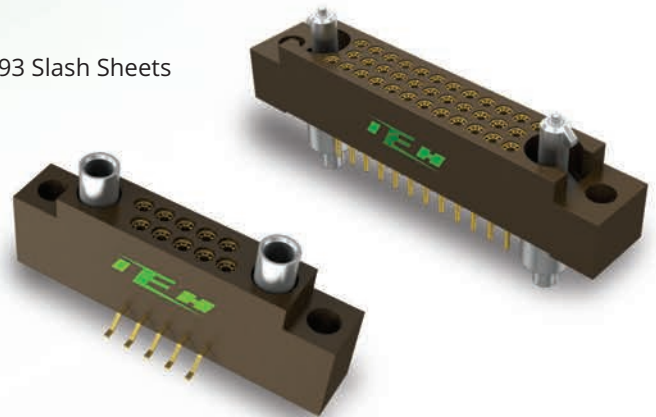
HGM SERIES

- .100" Pitch
- MIL-DTL-55302/55-/64 and /138-/139 Slash Sheets
- 2, 3 & 4 Rows
- 10-208 Contacts



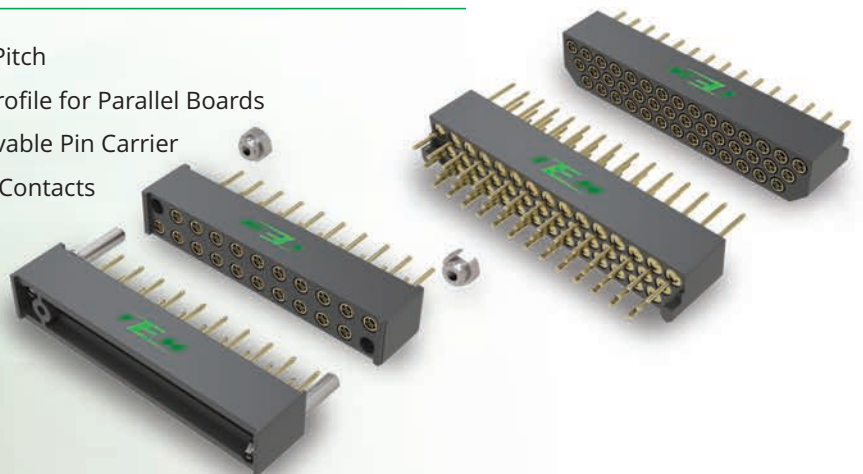
HRM SERIES

- .075" Pitch
- MIL-DTL-55302/190-/193 Slash Sheets
- 2 & 3 Rows
- 10-206 Contacts



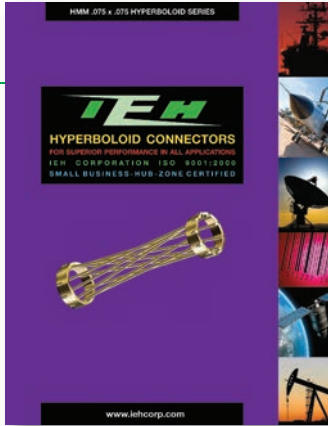
HGC/HGS SERIES

- .100" Pitch
- Low Profile for Parallel Boards
- Removable Pin Carrier
- 22-90 Contacts



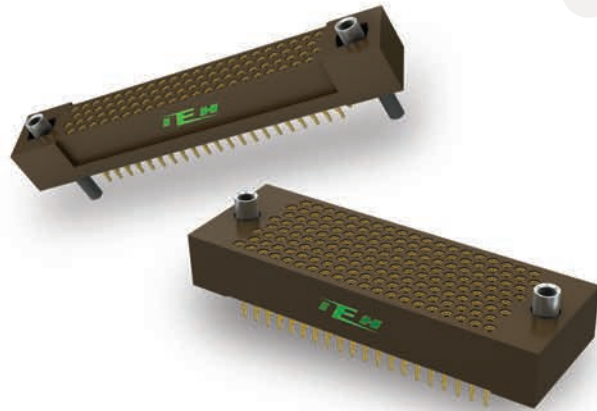
Hyperboloid Technology

- Impervious to Shock & Vibration
- Improved Current-Carrying Capacity
- Low, Low Contact Resistance
- 100,000+ Cycle Lifespan
- Very Low Insertion Force (VLIF)
- Advanced Design



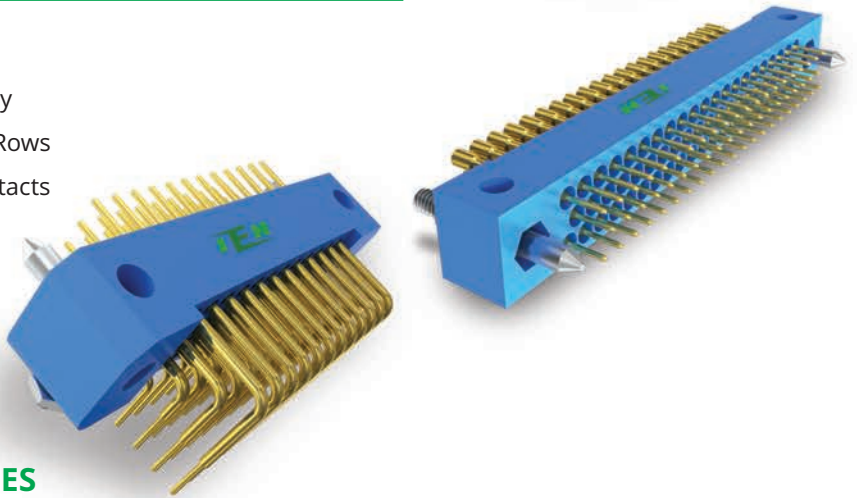
HMM SERIES

- .075" Pitch
- High Density
- 4, 6 & 8 Rows
- 58-604 Contacts



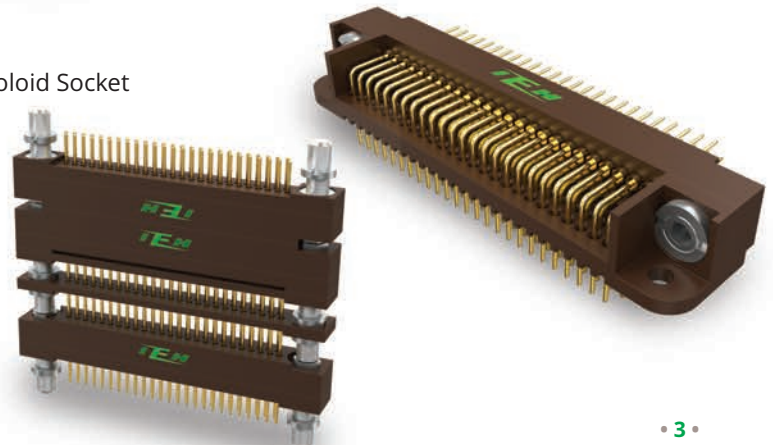
HMK SERIES

- .100" Pitch
- High Density
- 2, 3, 4 & 5 Rows
- 17-490 Contacts



HVM SERIES

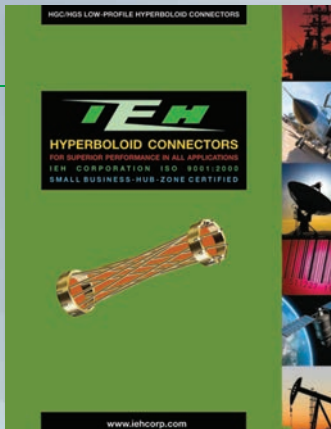
- .050" Pitch
- The Smallest Hyperboloid Socket in Existence (.3mm)
- 2 Rows
- 10-100 Contacts



Hyperboloid Contacts

High Performance for Every Application

When reliability is a must, space is at a premium, and high-current is required, you cannot find a better solution than IEH Hyperboloid contacts. Whether it's semi-conductor testing, PGA's, medical, military, commercial or industrial use, IEH has thousands of styles to meet your specific requirements. Please see our catalog for a representative sampling of the various sizes and termination styles we offer, and please contact the factory for any additional options or information.



HYPERBOLOID CONTACTS

- Discrete Pins and Sockets
- High Power and Signal
- Higher Current-Carrying Capacity
- All Termination Types Available



HBH Series

Powerful Connections with Unlimited Flexibility

IEH Hyperboloid connectors just got even better — with our new HBH series. Now leverage the superior performance of the Hyperboloid socket in any combination of power and signal connectors.

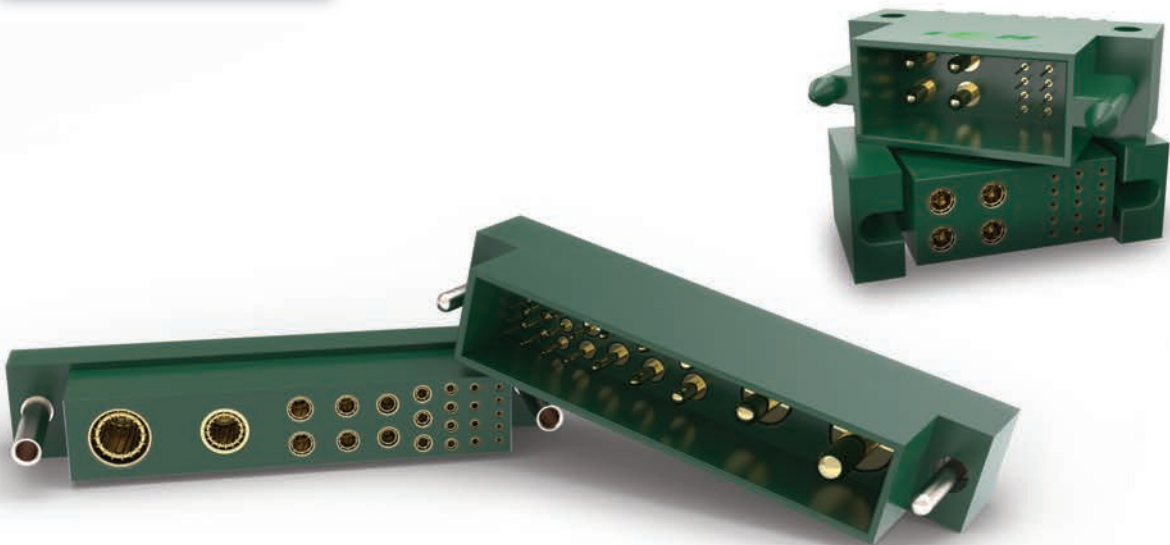
These new, one-piece modular connectors provide the flexibility to mix signal and power contacts within a single housing and in thousands of permutations, as well as the ability to choose almost any connector configuration.

All socket contacts utilize the Hyperboloid technology, and contact sizes range from .016" to .169". Termination options include straight and right-angle PCB mount, crimp, solder cup, and compliant contacts. RF options are available, as well as blind mate modules as alignment aides.



HBH SERIES

- One-piece Construction
- .016"-.169" Size Contacts
- Thousands of Potential Configurations
- Online, Downloadable 3D Model Part Builder on Website



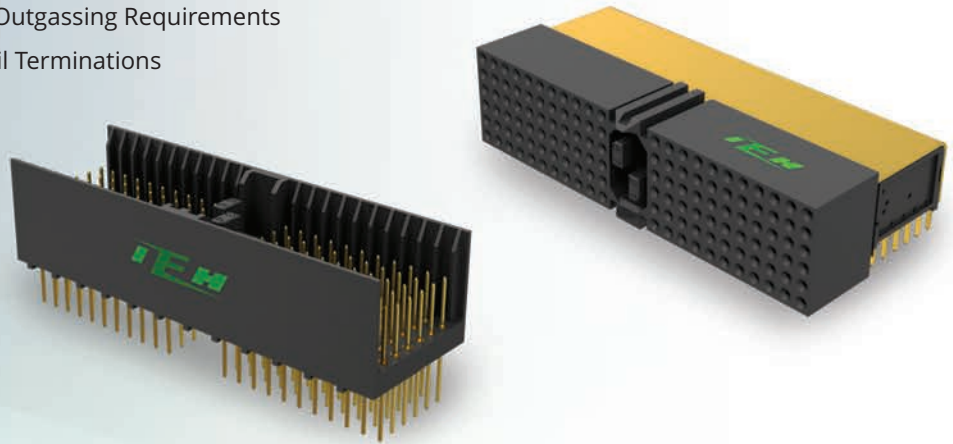
Hyperkinetic® Connectors

High Speed, High Density Hyperboloid Modular Interconnects

Supporting speeds up to and exceeding 10 Gbps, the Hyperkinetic connector is a shielded, high density, high speed modular interconnect which employs the mission-critical capabilities of the Hyperboloid contact.

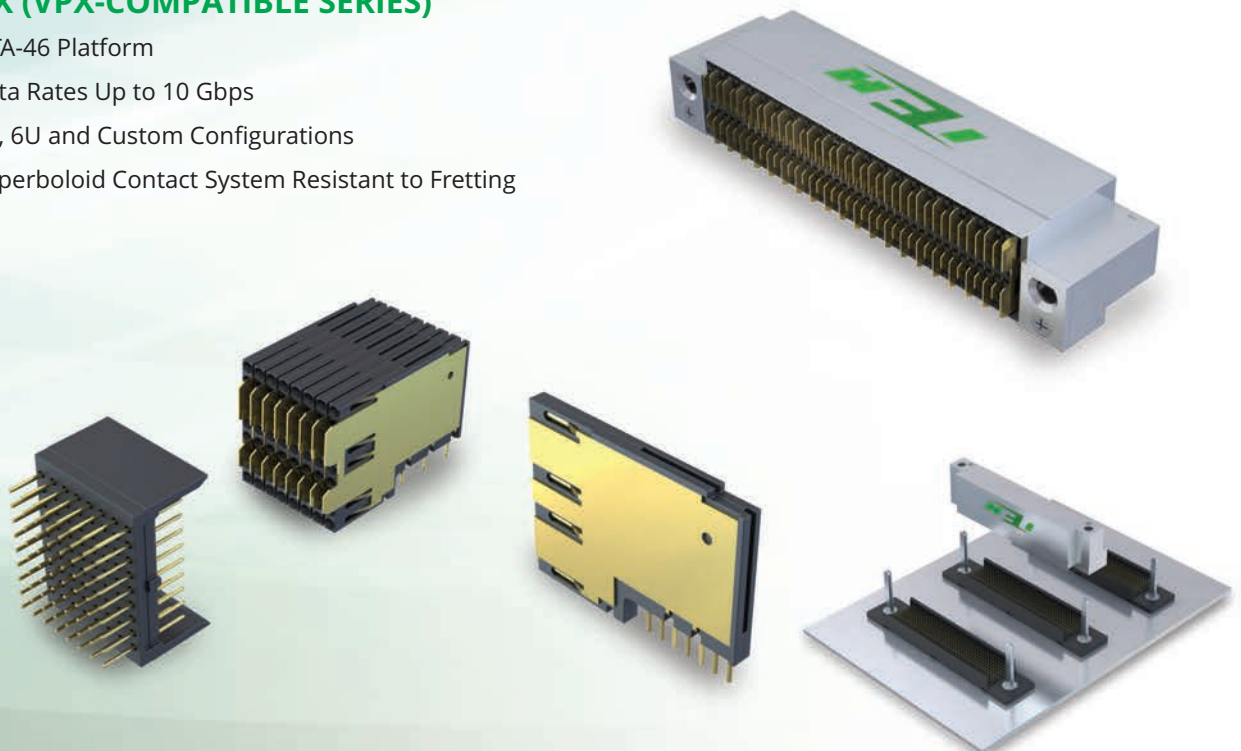
HKC (cPCI SERIES)

- Interchangeable with COTS Board Layout, but with Hyperboloid Contact System
- 2mm Footprint of cPCI PICMG 2.0
- LCP Insulator Meets Outgassing Requirements
- Press Fit or Solder Tail Terminations



HKX (VPX-COMPATIBLE SERIES)

- VITA-46 Platform
- Data Rates Up to 10 Gbps
- 3U, 6U and Custom Configurations
- Hyperboloid Contact System Resistant to Fretting

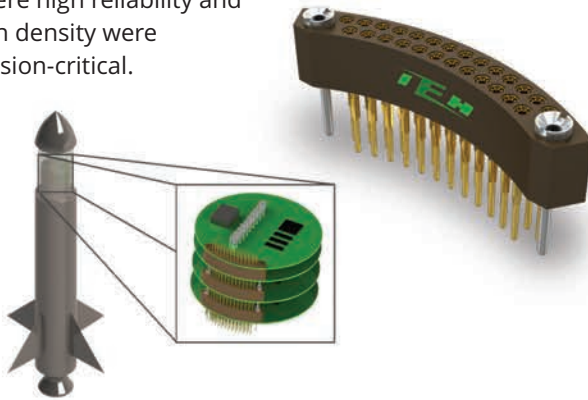


Custom Solutions

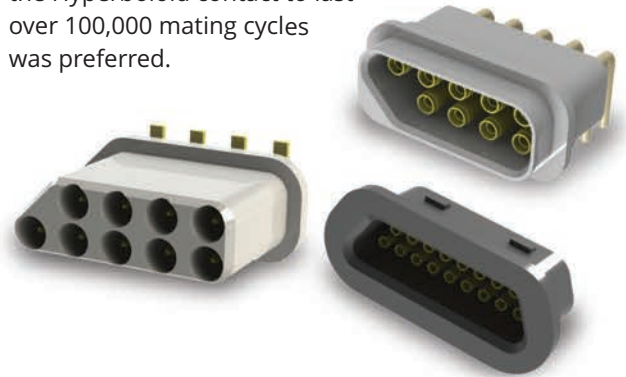
When Standard is Not an Option

In addition to our standard line of PCB and M55302 connectors, IEH specializes in custom applications, many of which incorporate our Hyperboloid contact technology and meet the specific needs of our customers' applications. Below are but a few examples of the types of custom connector solutions we've designed. We would be happy to review your current interconnect requirements, and work with you on a solution to suit your needs.

Semi-circular, stacking connectors for parallel boards inside a munitions chamber, where high reliability and high density were mission-critical.



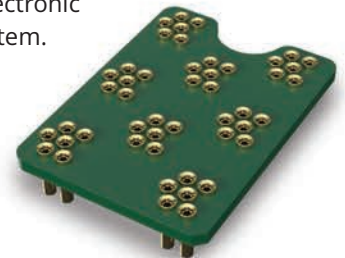
D-shaped connectors for ruggedized medical and commercial applications, including docking stations, mobile diagnostic equipment, and remote terminals. The ability of the Hyperboloid contact to last over 100,000 mating cycles was preferred.



Rounded-edge connectors for circular chambers in auto-feather units for jet engines.



Hyperboloid contacts in a pin grid array (PGA) for an electronic airborne warfare system.



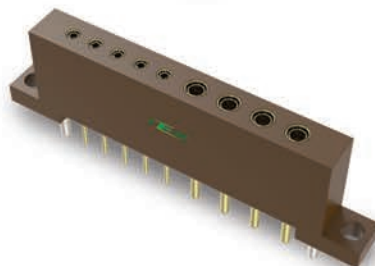
1,200 pin connector for an interface board on rotary-winged military vehicles.



Edge of a circular card for the guidance section of a torpedo.



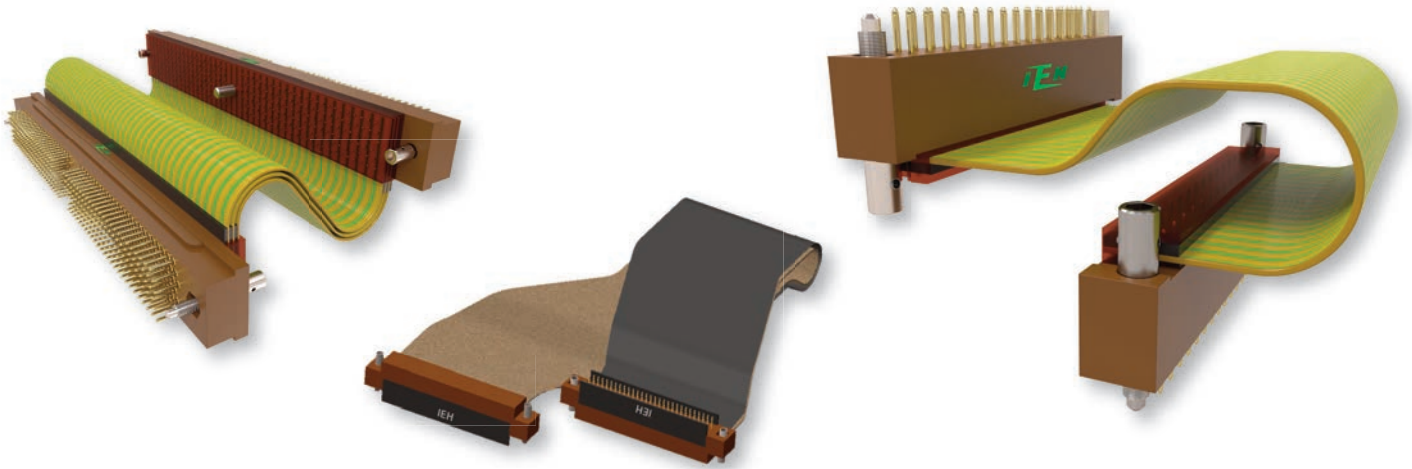
Receptacles on power conversion boards to mate with pins on various DC-DC daughtercards.



Flex and Cable Assemblies

End-to-End Connections

IEH's value-added services include complete flex and cable assemblies. For flex, IEH engineering will work with you on the design and layout of your flex, source it, and terminate it to the IEH connector. Cable terminations can be provided as well. The result is a more cost-effective, comprehensive interconnect solution.



Mini Circular Connector

Cable-to-Cable, Cable-to-Panel 3 & 4 Contact Configurations

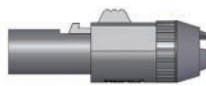
For OEM medical equipment such as catheters, MRI's and monitors, industrial applications where high reliability is required, and commercial and military aerospace equipment.

Features

- Easy & Quick Push Button Release
- Intuitive Alignment & Polarization Provided by Housing for Efficient Mating
- Hyperboloid High Performance Contacts
- High Impact Housing
- Contacts Recessed for Protection
- Custom Overmold and Value-Added Cables Available
- Custom Designs Up to 9 Contacts
- Custom Designs to Meet Specific Application Needs Including IP65 Ingress Protection





RECEPTACLE



PLUG

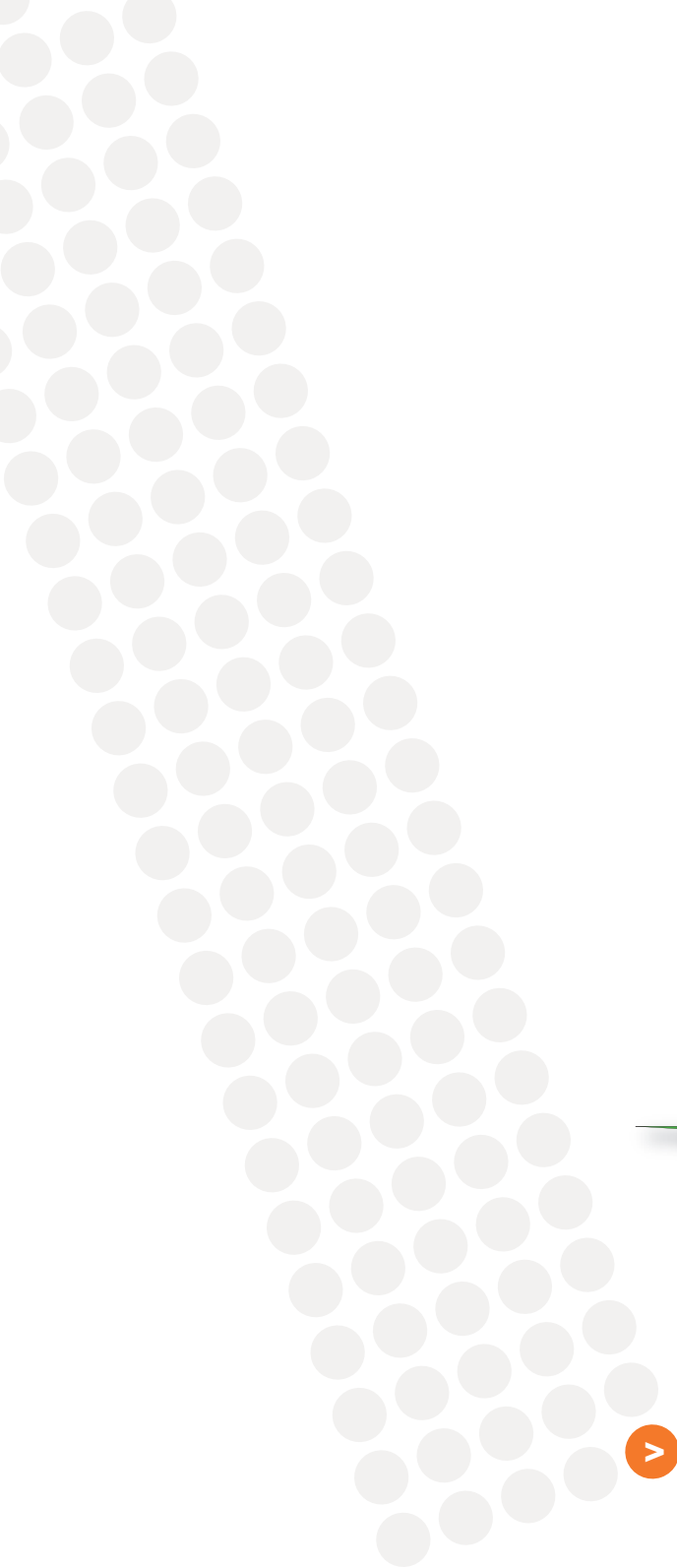




 www.iehcorp.com

IEH QUALITY STATEMENT

Listening to our customers and meeting their needs while continuously improving our processes and services.



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