

Press Release Quick Tips

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Hirose Expands ix Industrial Connector Offering with IDC Plug & “B” Key for Non-Ethernet Applications

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Product Name: ix Industrial Series I/O connector

Product Description: Expanded ix Industrial Series product offering now includes an insulation displacement connector (IDC) plug assembly for faster installation and a “B” Key version for non-Ethernet applications

Key Markets/Applications: Ideal solution for any application that requires long reach, high speed and limited wiring space including factory automation controllers, industrial robotics, programmable logic controllers, security systems, servo amps, servers, robotics and more

Key Benefits:

- Combines a small, robust design with high-speed data transmission capability up to 10Gbps
- Features an optimized EMI/ESD shielding design for safe and secure data transmission
- Reduces installation space by up to 75% compared to RJ45 solutions, and up to 28% compared to competing snap-in I/O connectors
- Snap-in I/O connector delivers a rugged and reliable design with high PCB retention force
- The narrow width of the receptacle is particularly beneficial when multiple connectors are positioned on a single PCB side-by-side
- Supports CAT5e and CAT6a (10G) cabling

Product Specifications:

- Compliant with IEC PAS 61076-3-124
- Maximum dimensions of 22.9mm x 8.4mm x 14.3mm
- Offered in an upright right angle version, the receptacles can be mounted in parallel with a pitch distance of only 10mm
- Positive metal lock with a preload spring mechanism provides a clear tactile click to ensure complete, secure mating
- Preloaded springs prevent unintended cable removal and extend the operating life to more than 5000 mating/unmating cycles
- Receptacle shell is mounted on the PCB via a through-hole solder legs to enhance PCB retention and to resist the wrenching of the cable assembly, protecting the SMT leads
- Receptacle supports THR soldering as a substitute for manual soldering, and can be mounted on the PCB containing both THT and SMT components in a single SMT process
- Wire-termination unit and cable clamp are integrated into a single plug shell, which prevents the connecting part of the cable assembly from being affected by the load on the cable
- Rated current of 1.5A per pin
- Operating temperature range of -40°C to +80°C
- Rated voltage of 30V AC

HIROSE IS DEVELOPING A HORIZONTAL RECEPTACLE THAT WILL BE AVAILABLE SOON

Link: <https://www.hirose.com/product/en/products/IX/>

ABOUT HIROSE ELECTRIC

Hirose Electric Co., Ltd. is a leading global supplier of innovative interconnects, with sales of over \$1 billion to customers worldwide. Hirose employs advanced engineering services, superior customer support and worldwide manufacturing capabilities to provide value-based connector solutions for various industries including: industrial, telecommunication, consumer electronics, computer and automotive. More information can be found on Hirose Electric's corporate website at www.hirose.com.

