POWER & SIGNAL GROUP AND MOLEX INCORPORATED

A New Partnership Offering Powerful Interconnect Solutions
for the Commercial Vehicle and Transportation Markets

molex®
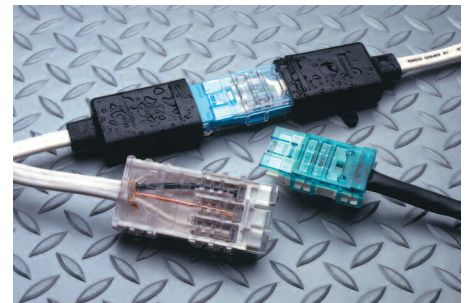one company › a world of innovation

Power & Signal GROUP

MX150L™
- Integral TPA (Terminal Position Assurance) assures that crimped terminal leads are properly locked into connector
- Pre-assembled connector housings and TPA components shipped in one-piece for labor and cost savings
- Integral, two-way matte seal on the mating connector on the mating connector designed and tested to IEC IP67 standards
- Two independent terminals (8 and 10-12 AWG) allow for the support of 30.0A applications with 10-12 AWG and 40.0A applications with 8 AWG

Industrial USB/Sealed RJ-45
- Bayonet or threaded-style latch provides quick and easy connection
- Single and double-ended cordsets
- Industrial USB fully shieled cable provides EMI/RFI protection
- Industrial USB overmolded cordsets allow for faster installation on site versus field-wireable designs
- Sealed RJ-45 meet Category 5e specifications for high-speed data transmission

Self-Contained Power Connectors (SCPCs)
- SCPCs provide fast and easy connections of marine boat cable
- Safe, easy to use, rugged connectors that will handle up to 20.0A
- No special tooling necessary
- SCPCs from Molex are UL listed, UL marine listed as well as CSA certified
- Hermaphroditic design mates with itself so there is only one part to order

Perma-Seal™
- Terminals and splices provide a rugged, environmentally sealed connection for wire sizes 8 to 22 AWG
- NiAc™ insulation material shrinks up to 40% faster than comparable nylon or polyolefin products
- Inner wall of heat-shrinkable sleeve is lined with melt adhesive
- Upon heating, adhesive melts and flows under pressure from the tubing, filling any voids and creating a seal that repels moisture

NMEA2000®
- NMEA2000 network allows multiple electronic devices to be connected together on a common channel for the purpose of easily sharing information
- Two sizes of the connector may be used depending on the choice of heavy (Mini-C™) or light backbone cable (Micro-C™/Euro-C™)
- NMEA2000 network can accommodate navigation equipment, power generation, engines and machinery, piloting and steering systems, fire alarms and controls

Solderless Terminals
- Available in a variety of carrier methods such as metal strip, mylar tape and molded continous strip
- Wide selection of tongue styles are available
- A range of barrel styles available: butted and brazed seams, insulated and non-insulated

Molex Industrial products offers the most complete interconnect solutions for the industrial market through our in-depth expertise, diverse product portfolio, advanced technologies and comprehensive design and engineering support.
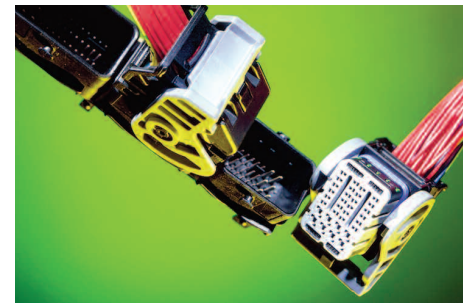

XRC™
- Shell size 14 to18 circuits
- Environmentally sealed to IP67 industry standard
- Used for in-line and panel mount applications
- Simple crimp-and-poke technology

MX64™ Sealed Connector System
- Meets all USCAR footprints and testing requirements for .064mm (.025") pitch square pin connector systems for compliance with OEM directives
- Ability to accommodate Ford, GM or Chrysler approved female terminals allows for design flexibility
- Matte seal design eliminates secondary operation and costs associated with cable seals

CMC
- The system is modular so connectors fit in various order onto the headers
- Mechanical polarization to avoid mismatching
- 5 color codings available for an easy mounting on the headers
- Seal-healing effect after terminal repair operation (IP67 sealing class)
- Wire cap that can be fixed on both sides, right or left, allows for orientation of wires to prevent wire damage
- A gel pad keeps unplugged cavities closed for guaranteed water tightness and there is no need for blind plugs
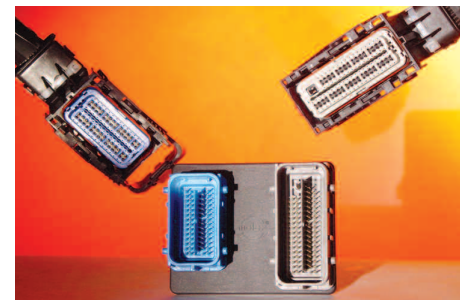

MX150™ Sealed Connector System
- Pre-assembled connector housings, seals and TPA (Terminal Position Assurance) components for cost-savings
- Integral TPA assures that crimped terminal leads are properly locked into connector
- Integral two way, matte and interface seals designed and test to IP67, SAE, USCAR-2 and Rev.3 standards
- Compatible with a wide range of UL (14 to 22 AWG) and SAE Automotive (14 to 22 AWG) style wires supporting a wide range of power and signal applications
- CPA (Connector Position Assurance) option to assure positive mating of connector and prevents accidental disengagement
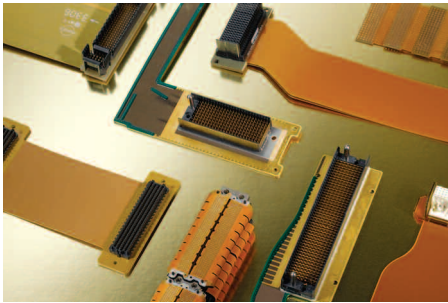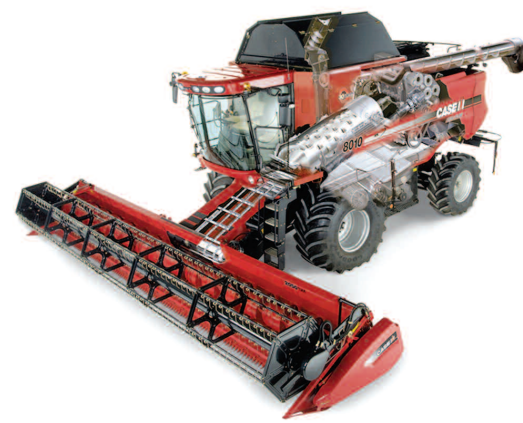

Stac64™
- Vertical and right-angle 20-circuit headers feature 4 polarization options
- Modular housing design supports single and multi-pocket applications
- USCAR approved Category 0 (0.64mm), tin-plated pins meet mechanical and electrical requirements of USCAR-2, Class 2
- Unique, power hybrid pocket design supports industry standard 1.50 and 2.80mm (.059 and .110") blade width terminals
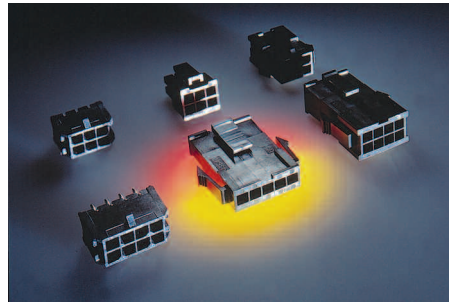

MX123
- Multiple keying options
- Ground blade engages before signal pins contact
- CPA (Connector Position Assurance) remains in pre-lock position until cam assist lever arm is locked closed
- Connection system is validated to USCAR Class 3, Sealed
- Connection system is validated to on engine vibration profile
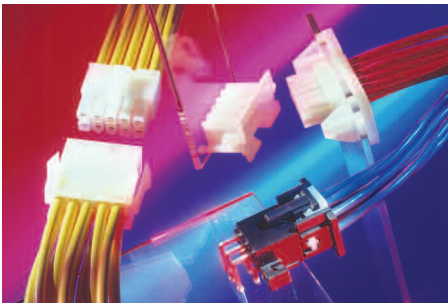- Works with blind-mate products

Copper Flex
- Switches and sensor assemblies
- Indicator panels with LED lights
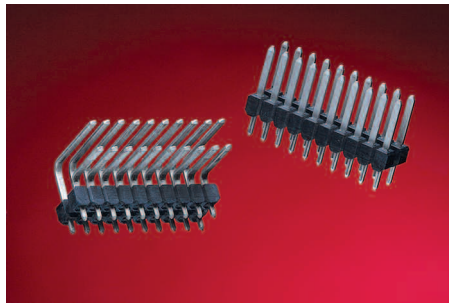- Flex is light and durable

Micro-Fit 3.0™
- 3.00mm (.118") pitch
- Current rating up to 50.0A per circuit
- Wire-to-wire, wire-to-board and board-to-board configurations
- SMT, press-fit or Surface Mount Compatible versions available
- Fully polarized housings prevents accidental mis-mating

Mini-Fit® Products
- Mini-Fit Jr.™ is a high-current/high-density connector offering great design flexibility for wire-to-wire and board-to-board configurations
- Mini-Fit Plus HCS™ (High Current System) is capable of carrying up to 12.0A per circuit
- Mini-Fit TPA™ (Terminal Position Assurance) features a lock that allows terminals to be fully seated in the housing, assuring that they will not back out; CPA (Connector Position Assurance) lock also available
- Mini-Fit BMI™ (Blind Mate Interface) connectors are designed for applications requiring blind mating

MX150™ Unshrouded Breakaway Header
- Designed to be compatible with Molex MX150 connectors to accommodate wire-to-device applications
- Compatible with USCAR 1.50mm (.059") specifications
- Unique breakaway design provides ability to break between rows and circuits

TM-3000™
- Accepts Molex FineAdjust™ and Mini-Mac™ applicators
- Also accepts most industry standard applicators
- Direct drive, split-cycle press accepts Molex air-feed applications for terminals mounted on tape

Power & Signal Group – Worldwide Connection Systems Resource

Power & Signal Group has been a global distributor of interconnect systems for the automotive and commercial vehicle markets for more than 25 years. From our North American headquarters, with sales and distribution centers also located in China and Germany, we provide global coverage to our customers – delivering product when, where and how it's needed.

Our sales and technical services are focused on helping you to navigate the entire design process in order to get your products to market faster. We provide:

- Full range of application assistance – from concept to sustaining engineering

- Extensive wire and cable harness expertise

- Complete harness design "ready-for-market" review

- Manufacturing start-up analysis

Call on Power & Signal Group today for all your Molex product needs!

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GROUP

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